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A Global Perspective of Service-Learning and Community Engagement in Higher Education

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From the Guest Editors...

State of Service-Learning and Community **Engagement Around the World**

Andrew Furco and Kateryna Kent

into primary, secondary, and higher education systems. At the center of this movement is the incorporation of service-learning as a primary means to advance this agenda. Much as it did in the evolution of the higher education community engagement movement in the United States, service-learning is serving as the entry point for making community 2. engagement a more central feature of the academic culture of higher education institutions in different corners of the world.

This volume presents series of research articles, projects with promise, and reflective essays that bring to the fore the ways that service-learning is used in different countries to deepen higher education's efforts to institutionalize community engagement. The first set of articles reveals the rise in research efforts in Asia, Africa, Europe, and South America to understand more fully the impacts of service-learning within differing cultural contexts. These articles 4. shed light on the varied set of impacts that service-learning is designed to accomplish in different parts of the globe. They also reveal how, within cultures and national borders, the construct of service-learning takes on a particular meaning that might not necessarily translate to other cultures or countries.

The second set of articles speaks to the mission of higher education and elevating We hope this issue will provide insights into higher education's third mission in the con- different ways in which service-learning text of substantial social and cultural shifts and broader community engagement are across Africa, Asia, and Europe. These ar- expanding and deepening in different parts ticles shed light on the growing worldwide of the world, as well as catalyze additional effort to enhance the relevance, value, and conversations and discussion on how this societal impact of higher education through work can be further institutionalized across more thoughtful, mutually beneficial uni- higher education.

cross the globe, we are witnessing versity-community engagement. They also a rise in the integration of com- speak to the challenges and promise of admunity engagement practices vancing this engagement agenda.

> This collection of articles reveals the practice and progress of service-learning throughout the world:

- 1. Service-learning acts as a primary means to further broader community engagement in higher education.
- Although a set of principles and elements establish the construct of service-learning, the ways in which these principles and elements are operationalized in different cultures and countries give service-learning a particular cultural or national brand.
- 3. There is a still a struggle across countries to codify best practices for servicelearning, comprehensively measure service-learning outputs and outcomes, and effectively assess student learning from service-learning.
 - As service-learning gains momentum as a pedagogical tool, it is also catalyzing broader efforts to reconsider the role of higher education's third mission. The third mission, which focuses on higher education's outreach and extension efforts, speaks to the growing emphasis on reenvisioning the role of higher education outreach and engagement to better serve the public good.



About the Guest Editors

Andrew Furco is the associate vice president for public engagement at the University of Minnesota, where he is professor of higher education in the Department of Organizational Leadership, Policy, and Development. His research focuses on investigating the impacts, implementation, and institutionalization of experiential learning, service-learning, and community engagement in primary, secondary, and higher education in the United States and abroad. He received his Ph.D. in educational policy and administration from UC Berkeley.

Kateryna Kent is a research associate in the Office for Public Engagement at the University of Minnesota. Her research interests include mechanisms for institutionalization and institution-wide assessment of community engagement. She received her Ph.D. from the University of Minnesota.

A Common Outcome Measurement for Service-Learning in Hong Kong

Carol Ma Hok Ka, Chad Chan Wing Fung, and Issac Tse Pak Hoi

Abstract

Use of service-learning is burgeoning among higher education institutions in Hong Kong and expanding in Asia. The positive student outcomes that have been reported in Western society, however, are not as widely recognized in Asian society. Asian institutions of higher education need a standardized measurement of outcomes that will help refine the practice of service-learning, increase government funding for this pedagogy, and encourage cross-institution collaboration. This article describes the development, testing, and verification of the common outcomes measurement (COM), a tool for generating reliable data on student learning outcomes achieved through different service-learning initiatives. With nine domains and 34 items, the COM contributes to both theoretical and practical aspects of service-learning. As a verified means of measuring service-learning outcomes in Asian circumstances, the COM encourages development of quality education that can yield community impacts in Hong Kong.

Keywords: outcomes measurement, service-learning, students' learning outcomes, higher education, cross-institution

learning. Each HEI measures expected out- introduced from Western society. comes from its own perspectives. However, incompatible independent assessment practices make cross-institutional comparisons impossible. This article attempts to develop one common outcome measurement (COM) of service-learning for measuring students' learning impacts in order to foster the development of service-learning and crossinstitution collaboration in Hong Kong.

Service-Learning in Asia

Service-learning has been implemented in Asia for more than 10 years. After the first Simply, many Asian HEIs acknowledge that Asia Pacific Regional Conference on Service- "Service-Learning is a teaching method Learning organized at Lingnan University that combines academic knowledge and in 2017 in Hong Kong, more Asian univer- community service" (Ma, Chan, Liu, & Mak,

he use of service-learning as a sities from China, India, Indonesia, Japan, pedagogy is burgeoning among Korea, Myanmar, Vietnam, Singapore, the many higher education insti- Philippines, and Taiwan have also explored tutions (HEIs) in Asia. HEIs various service-learning opportunities (Ma, are all keen to demonstrate 2018). The term service-learning was not positive learning outcomes through service- new to many institutions, though it was

> Service-learning can be defined as a research-based teaching method where guided or classroom learning is applied through action that addresses an authentic community need in a process that allows for youth initiative and provides structured time for reflection on the service experience and demonstration of acquired skills and knowledge. (Kaye, 2010, p. 9)

2018, p.3) yet we use different terminologies is encouraged through service-learning. in different Asian contexts; hence, service- Having demonstrated the strength of this learning actions may be equivalent to "social pedagogy, Lingnan University has taken the concern," "community outreach," "com- lead to develop the COM in collaboration munity-based research," or "community with other universities in Hong Kong. engagement." They all embrace performing service-learning to meet community needs Service-Learning in Hong Kong and to serve the community. Like many others, we believe that service-learning is a powerful and high-impact tool that combines rigorous academic study with community service. The service accomplished by students reinforces their academic learning through critical self-reflection (OSL, 2006). Positive outcomes of servicelearning on students, including enhanced personal and social development, matured interpersonal and communication skills, realized life satisfaction, and enlightened academic and professional development, have been widely recognized in Western society (Astin, Vogelgesang, Ikeda, & Yee, 2000; Felten & Clayton, 2011; Steinberg, Hatcher, & Bringle, 2011; Vogelgesang & Astin, 2000). Many studies in Asia have also proven that service-learning can advance student development and help in developing students' academic knowledge, skills, and caring dispositions as well as civic learning important indicator to show the impacts and personal growth (Ma, Chan & Chan, of service-learning. Many HEIs, therefore, 2016; Ma & Lo, 2016; Shek, Ma & Yang, 2019; Snell, Chan, & Ma, 2013). Different studies concurred that service-learning has positive impacts on students' development ing different service-learning programs in and learning.

At Lingnan University, service-learning is expected to be driven by the learning objectives of the contributing academic course in response to identified needs of the community through the eyes of participating students. Students have reported positive improvement in seven learning outcome indicators: subject-related knowledge, communication skills, organizational skills, problem-solving skills, social competence, research skills, and civic orientation (Chan, Lee & Ma, 2009; Ma & Chan, 2013). Continuous reflection serves as the bridge for participants to make connections between theory and service. New knowledge is generated from inside (Hargreaves, 2003); academic learning is enhanced (Astin et al., 2000; Vogelgesang & Astin, 2000), sparked through interaction, communication, and the collective formulation of new ideas (Harris, Jones, Sharma, & Kannan, 2013, In an interconnected world, university p. 214). Furthermore, students' leadership graduates are expected to care about their skills (Snell et al., 2013) are improved, and community. This global concern is univercivic engagement (Steinberg et al., 2011) sal among tertiary institutions. Service-

The terms social service, community service, and voluntary work have been used interchangeably among nongovernmental organizations and schools. Service-learning was first adopted as a volunteering concept in Chung Chi College of the Chinese University of Hong Kong in 1995 (Ma, 2018). Not until Lingnan University set up the first Office of Service–Learning in 2006 did the term "service-learning" grow popular and widely accepted by the community and even in schools, where they tried to embed service-learning into the curriculum. With the extensive territory-wide education reform in 2012, more universities set up their own service-learning office or experiential learning center to promote "serving to learn" and "learning to serve."

Since universities need to be audited every 5 years, outcomes measurement becomes an are trying to measure outcomes according to their own belief. Standardization of declared outcomes becomes an issue when compar-Hong Kong. Without a common and standardized measurement, it would be difficult for service-learning to win trust from people who are doubtful of its usefulness and worthiness in university education, especially in Asian education. The purpose of having a standardized measurement is to help to attune service-learning outcomes in Hong Kong, persuade the government to provide more funding for the development of service-learning education, and encourage cross-institution collaboration. Thus, reliable measurement of service-learning outcomes is important among HEIs. Especially, it can be a tool for administrators and faculty to generate reliable data on student learning outcomes through servicelearning initiatives.

The Development of HESLN and the Need for a Common Outcome Measurement

Service-Learning Network (HESLN) was learning outcomes. formed in 2009 to provide a platform to share service-learning experience and resources among local universities.

gogy, HEIs needed to provide reliable data one useful COM. Principles learned from the on student learning outcomes directly field of psychometrics in the development related to service-learning; hence, "the of scales were employed. The procedure administrators and faculty responsible for was found consistent with the flowchart implementing this unique pedagogical approach to student learning seek effective Podsakoff (2011), except that "norm develand efficient assessment methodologies to opment" is not relevant to our case. Four measure discipline-specific student experiences" (Crowe, 2003, p. 1). However, different universities had their own measurement and studies in service-learning, which (Phase 1), item pool generation (Phase 2), unfortunately hid a deficiency in servicelearning research, namely, a "tendency to report specific findings, most typically from case studies (e.g., one class, one program, Phase 1. Mapping out the Focus of Inquiry one institution) without making justified generalizations about practice, theory and policy" (Bringle & Hatcher, 2000, p. 73).

A standardized technique to measure and compare the effectiveness of various service-learning programs across different organizations is long overdue. The development of a common outcomes measurement of service-learning can make a significant contribution to the field. The common outcomes measurement, as a validated tool with nine domains and 34 items, represents a milestone of service-learning development in Hong Kong, as it is not only the first collaborative research on servicelearning among institutions, but also a tool that fits into Asian circumstances. It also encourages the respective institutions to think further about creating quality education and community impacts together in Hong Kong.

Methodology

Inspired by the experiences of Campus Compact (a U.S. coalition of colleges and A set of potential questionnaire items was universities dedicated to promoting community service, civic engagement, and ment of measures in MacKenzie et al.'s (2011) service-learning in higher education), model. Face validity means "quality of an representatives from 10 member universi- indicator that makes it seem a reasonable ties and tertiary institutions1 of the HESLN measure of some variable" (Babbie, 2013, p. explored opportunities for collaboration be- 191). By consolidating the contents of diftween local universities in service-learning ferent previous studies in existing literature development. In 2009, they proposed to and questionnaires used by some local uni-

learning fills the gap between academic set up a large, common, cross-university, learning and practical service. Therefore, standardized database in Hong Kong to faservice-learning was adopted in universities cilitate collaborative studies of the impacts in Hong Kong, and the Higher Education of service-learning programs on students'

Then, the research team looked into literature concerning the development of psychological scales (Morais & Ogden, 2011; Neff, Because service-learning was a new peda- 2003) to delineate a roadmap for generating proposed by MacKenzie, Podsakoff, and phases were conducted from 2010 to 2012 for the development of the COM. They are, in tandem, mapping out the focus of inquiry reducing and refining the scale (Phase 3), and pilot test (Phase 4).

(Conceptualization)

HESLN enacted a panel discussion to define the boundary and focus of inquiry for research and then identified numerous items pertinent to the domains of students' learning efficacy for intended measurement. Based on this tentative database, the research team step by step reorganized and finalized questionnaire items as a recursive process, and finally built up the study framework underlying the questionnaire. With conceptualization as in MacKenzie et al.'s (2011) model completed, nine domains were identified based on the members' experiences: (1) self-understanding/ confidence; (2) communication skills; (3) problem-solving skills; (4) civic engagement, social responsibility, and willingness to contribute; (5) team skills; (6) self-reflection; (7) general knowledge application; (8) caring for others; and (9) intercultural competence.

Phase 2. Item Pool Generation (Development of Measures)

generated based on face validity—develop-

of scale items that were potentially useful in questionnaire (36 items) was subjected to the COM questionnaire. A literature survey Pilot 2 experimentation (from September was made to locate the reference to each 2011 to July 2012), followed by repeated item in the set. Some modifications to the statistical validity tests (concurrent, conwording of the items were made according vergent, and discriminant). Reliability was to the specifications of this exploration. If further estimated using data from the SLRS no reference underlying a particular item Lingnan Model ABC (alternative forms, deemed indispensable was found, the item surveyed among Lingnan service-learning would be constructed according to our own participants only) and validity checked. theorizing. Through the panel discussion of Confirmatory factor analysis was then comseveral HESLN meetings, we accomplished pleted. This article will focus on the result face validity for the questionnaire items.

Phase 3. Reducing and Refining the Scale (Model Specification)

Phase 3 involves an item-reduction exercise (Larwin & Harvey, 2001)—model specification process in MacKenzie et al.'s (2011) model. In this phase, validity and reliability of the COM (Cabrera-Nguyen, 2010; Drost, 2011) became our genuine concern. In the process of reducing and refining the scale items, the research team followed two general principles:

- Retain items that entail logical relevance 1. to the cognition-attitude-behavior model and weed out those that do not.
- 2. the survey).

Phase 4. Pilot Test (Scale Evaluation and Refinement & Validation)

Phase 4 involved a pilot run for the statistical validity of the scales—scale evaluation and refinement in MacKenzie et al.'s (2011) model. A tentative set of questionnaires was made after the eight member universities voted to elucidate expert judgment on content validity and face validity on the most appropriate few items in the scale domains in use. Questionnaires in English were then administered. Data obtained in this pilot For the 36-item questionnaire, reliability test (Pilot 1) were used to perform statisti- analysis was run to test the internal concal reliability tests for the development of sistency of the overall scale and the nine a statistical model. Functionally it is an domains separately. According to Nunnally item grouping exercise (exploratory factor (1967), Cronbach's alpha reliability coefanalysis) using data from Pilot 1 question- ficients above .80 are acceptable, those in naires (78 items). Pilot 1 was conducted in the .70 range are marginally acceptable, May 2011. This was followed by computing and those below .70 are considered suspect intercorrelations between all pairs of items and will underestimate the true relationship and hence ascertaining the redundancy of between two variables. Further, according to similar items—scale evaluation, aimed at DeVellis (2003), the acceptable Cronbach's enhancing internal consistency through alpha coefficient of a scale should be above

versities, the research team generated a set reducing the number of items. The reduced of Pilot 2.

Results

Data collection using the 36-item version with a pre- and posttest design was conducted from September 2011 to July 2012. We obtained a total of 193 valid sample pairs, out of 215 university students from five local universities. By institution, 44 (22.8%) students were from Lingnan University, 21 (10.9%) from the City University of Hong Kong, 40 (20.7%) from the Hong Kong University of Science and Technology, 23 (11.9%) from Hong Kong Shue Yan University, and 65 (33.7%) from the Education University of Hong Kong (formerly the Institute of Education). Keep the number of items minimal by By gender, 136 (70.5%) respondents were retaining only those most relevant to female and 57 (29.5%) respondents were all domains of study (for the practical male. The majority of students were Year concern of students' ease of completing 1 (N = 56, 29%) and Year 2 students (N =74, 38.3%). The majority of their study majors included education, (N = 57, 29.5%), business (N = 53, 27.5%), social sciences (N = 51, 26.4%), sciences (N = 15, 7.8%), and arts (N = 13, 6.7%). More information about their general demographics, including gender, area of study, and year of study can be found in Table 1. Their answers for the pre- and posttest questionnaires were received for analysis on consistency, scale reliability, and validity.

Internal Consistency Reliability Testing

Table 1. The General Demographics of Students (N = 193)							
Gender	Frequency	%					
Male	57	29.5					
Female	136	70.5					
Total	193	100.0					
Area of study							
Arts	13	6.7					
Social sciences	51	26.4					
Business	53	27.5					
Sciences	15	7.8					
Education	57	29.5					
Others (e.g., exchange, foundation year)	4	2.1					
Total	193	100					
Year of study							
Foundation year	7	3.6					
Year 1	56	29.0					
Year 2	74	38.3					
Year 3	38	19.7					
Year 4	14	7.3					
Exchange	4	2.1					
Total	193	100.0					

Table 2. Cronbach's Alphas of the Nine Domains (36-Item Version)						
	Cronbach's alphas					
	Pretest Posttest					
Overall	.95	.95				
Self-understanding/confidence	.82	.82				
Communication skills	.86	.86				
Problem-solving skills	.80	.82				
Civic engagement, social responsibility, and willingness to contribute	.87	.85				
Team skills	.83	.83				
Self-reflection	.80	.82				
General knowledge application	.77	.84				
Caring for others	.75	.67				
Intercultural competence	.62	.49				

.7. The Cronbach's alphas for the overall process of how certain expected behaviors scale were .95 (pretest) and .95 (posttest), of students are developed. People begin with which show that the measurement is sig- beliefs and perceptions on certain issues on nificantly reliable. Results also show that which they base their interpretation; on the most of the domains are reliable (Table 2), cognitive level, they develop attitudes of with Cronbach's alphas ranging from .67 what is favorable or unfavorable for them. (caring for others, posttest) to .86 (com- Their attitudes end up guiding them to munication skills, pre- and posttest), perform certain kinds of behaviors. Ideally, except for intercultural competence, whose each domain should include at least one item Cronbach's alphas were .62 (pretest) and asking about the cognition, the attitude, .49 (posttest). All items of the same con- or the behavior aspect of achievements. structs are interrelated, with coefficients Therefore, the validated 34-item COM can larger than .35, except Item 36 (.15, in- serve as a question bank to allow different tercultural competence, posttest). Further institutions to measure their own learning internal consistency reliability analysis of outcomes through service-learning. the 36 items in nine domains separately is charted in Table 3 for reference.

through item reduction in terms of three process started with expert focus groups selection criteria: (1) item-total correlation, examining possibilities of what they be-(2) reliability if the item is removed, and (3) lieved were attributes of whole-person close relation to the domain topic (Table 4). development outcomes after completing Results show that most of the domains are service-learning projects. The experts came reliable in Cronbach's alphas after the item up with nine domains that are important reduction (eliminating Item 7 and Item 36; for contemporary skillsets: (1) self-unsee Table 4).

Paired Sample *t*-test and Correlations

To ensure validity of the items measuring the differences of participants before and after taking part in service-learning programs, a paired sample *t*-test was run for the 34 items as well as the nine domains with a 10-point Likert scale. Results show that most participants experienced significant positive gains through their servicelearning (Table 5).

Also, all nine domains were significantly correlated with each other, both pretest and posttest, with coefficients ranging from .38 to .75 (Table 6 & 7).

Discussion

Validity of the 34-Item Common Outcome Measurement

One classic model for measuring success in informal and cocurricular education is the cognition-attitude-behavior model; this serves to examine how students develop personal and social capabilities, civic re- Maximum likelihood factor analysis with sponsibilities, and other areas concerned. oblimin rotation (delta = 0) was conducted The 34-item version of the COM adopted to assess the underlying structure for the a variety of questionnaire items for each scale "civic engagement, social responsiand every domain. The cognition-attitude- bility, and willingness to contribute." The behavior model basically delineates the Kaiser-Meyer-Olkin (KMO) measure is .87,

Significance of the Nine Outcome Domains

The 34-item version was consolidated The entire scale evaluation and validation derstanding/confidence; (2) communication skills; (3) problem-solving skills; (4) civic engagement, social responsibility, and willingness to contribute; (5) team skills; (6) self-reflection; (7) general knowledge application; (8) caring for others; and (9)intercultural competence. They then offered items borrowed from a questionnaire repository of their own work or from published psychometric instruments related to the nine agreed-upon domains. Our research team exercised caution by tracing publication sources or existing outcome instruments and also the areas of learning outcomes claimed in the original source. Subsequent reliability exercises trimmed down the number of items but would not shake the nine established domains. The research team further confirmed that certain items (civic engagement, social responsibility, and willingness to contribute) do belong to one statistical domain (1) despite different labels in common language.

Factor Analysis for Civic Engagement, Social Responsibility, and Willingness to Contribute

	Table 3. Internal Consistency R	eliability Ar	nalysis o	f 36 items	
		Pretest (Alpha = .82	2)	Posttest (Alpha = .82	2)
	Self-understanding/confidence	Item- Total Correlation	Alpha if Item Deleted	Item- Total Correlation	Alpha if Item Deleted
1.	I am aware of my personal strengths and weaknesses.	.60	.79	.66	.77
2.	I am open to new experiences and willing to take risks and accept chal- lenges.	.68	.75	.67	.77
3.	I often seek out challenging opportu- nities that test my skills and abilities.	.66	.76	.64	.78
4.	I am confident in my abilities.	.62	.78	.62	.79
	Communication skills	Pretest (Alpha = .80	6)	Posttest (Alpha = .80	5)
5.	I feel comfortable to present my ideas in front of others.	.74	.82	.76	.80
6.	I know how to communicate my ideas in a situation that is new to me.	.76	.81	.77	.79
7.	I understand the importance of participating in group discussion with others.	.61	.87	.53	.89
8.	I feel confident in communicating ideas precisely with people.	.76	.81	.77	.79
	Problem-solving skills	Pretest (Alpha = .80)		Posttest (Alpha = .82)	
9.	I feel confident in identifying a problem.	.68	.71	.73	.73
10.	I feel confident in tackling a problem.	.59	.76	.69	.75
11.	Before I solve a problem, I gather as many facts about the problem as I can.	.63	.74	.61	.78
12.	I go through the problem-solving process again when my first option fails.	.55	.78	.54	.82
	Civic engagement, social responsi- bility, and willingness to contribute	Pretest (Alpha = .87)		Posttest (Alpha = .89	5)
13.	I am aware of the important needs in the community.	.62	.87	.61	.84
14.	I am or plan to become actively in- volved in issues that positively affect the community.	.78	.81	.73	.79
15.	I feel a personal obligation to contrib- ute in some way to the community.	.76	.82	.69	.81
16.	It is my responsibility to help improve the community.	.75	.83	.73	.79

Table continued on next page

	Table 3. Internal Consistency Reliab	ility Analysi	is of 36 i	tems contin	ued
		Item- Total Correlation	Alpha if Item Deleted	Item- Total Correlation	Alpha if Item Deleted
	Team skills	Pretest (Alpha = .8)	3)	Posttest (Alpha = .83	3)
17.	I am able to remain calm and reason- able even when conflict among group arises.	.63	.81	.68	.78
18.	I cooperate successfully with other students in a variety of situations.	.71	.77	.68	.78
19.	I notice and compliment the accom- plishments of others.	.65	.80	.60	.81
20.	I participate effectively in group discussions and activities.	.67	.79	.70	.77
	Self-reflection	Pretest (Alpha = .80	D)	Posttest (Alpha = .82	2)
21.	I am assertive and independent.	.52	.79	.59	.81
22.	I am motivated to learn, participate and achieve in school.	.64	.73	.72	.74
23.	I believe self-reflection can improve myself.	.65	.72	.64	.78
24.	I will evaluate myself after completing a task.	.62	.74	.64	.78
	General knowledge application	Pretest (Alpha = .77	7)	Posttest (Alpha = .84)	
25.	I am aware of the importance of evaluation and outcome with knowl- edge learned in class.	.57	.72	.63	.81
26.	I feel confident in applying knowledge in my areas of study.	.59	.71	.70	.78
27.	I understand the need to adapt my theoretical knowledge in various real- life situations.	.67	.67	.74	.77
28.	I learn course content better when connections to real-life situations are made.	.49	.77	.62	.82
	Caring for others	Pretest (Alpha = .75)		Posttest (Alpha = .67)	
29.	I am aware of the thoughts and feel- ings of other people.	.41	.75	.37	.66
30.	I believe that the world would be a better place if prejudices no longer exist.	.57	.67	.45	.62
31.	I feel comfortable building relation- ships with people from different backgrounds.	.53	.69	.54	.56

	Table 3. Internal Consistency Reliability Analysis of 36 items continued						
	Item-AlphaItem-ATotalif ItemTotaliCorrelationDeletedCorrelationI						
	Caring for others continued	Pretest (Alpha = .75	5)	Posttest (Alpha = .67)			
32.	I believe that taking care of people who are in need is everyone's respon- sibility.	.66	.62	.49	.59		
	Intercultural competence	Pretest (Alpha = .62)		Posttest (Alpha = .49)			
33.	I am keen to learn more about people from other cultures.	.61	.41	.43	.35		
34.	When I interact with people from other cultures, I try to understand their behaviors, perceptions or feel- ings in the context of their cultures.	.47	.55	.44	.35		
35.	I believe that paying attention to the body language of those from other cultures would allow me to under- stand more about them.	.35	.60	.48	.32		
36.	I am interested in making friends with people of different cultural background.	.39	.68	.15	.80		

Note. Item 36 was reversed.

Table 4. Cronbach's Alphas of the Nine Domains (34-Item Version)						
	Cronbach's alphas					
	Pretest	Posttest				
Overall	.95	.96				
Self-understanding/confidence	.82	.82				
Communication skills	.87	.89				
Problem-solving skills	.80	.82				
Civic engagement, social responsibility, and willingness to contribute	.87	.85				
Team skills	.83	.83				
Self-reflection	.80	.82				
General knowledge application	.77	.84				
Caring for others	.75	.67				
Intercultural competence	.68	.80				

Table 5. Paired Sample Test by Domain (<i>n</i> = 193)						
	Pretes	Pretest Posttest		Difference	t toot	
Domains	Mean	SD	Mean	SD	(%)	t-test
1. Self-understanding/confidence	7.43	1.08	7.85	0.96	5.54%	5.98***
2. Communication skills	7.15	1.25	7.63	1.22	6.74%	5.64***
3. Problem-solving skills	7.37	0.99	7.71	0.97	4.66%	5.39***
4. Civic engagement, social responsibility and willingness to contribute	7.72	1.13	8.06	0.97	4.39%	4.39***
5. Team skills	7.59	0.95	7.92	0.93	4.41%	4.44***
6. Self-reflection	7.73	1.05	7.96	1.04	2.98%	3.01***
7. General knowledge application	7.64	0.98	7.87	1.03	3.03%	3.25***
8. Caring for others	7.97	1.06	8.21	0.90	2.97%	3.35***
9. Intercultural competence	7.99	1.18	8.30	1.00	3.88%	3.58***

***p < .001

and the Barlett's test of sphericity is significant, indicating a reasonable analysis for the scale. Four factors with eigenvalue larger than 1 were extracted. The first factor accounted for 42.5% of total variance, the second factor accounted for 5.4%, the third factor accounted for 5.5%, and fourth factor accounted for 4.2%. However, as the contributions of the second, third, and fourth factors to the total variance are trivial (Figure 1), it is indicated that one factor should be satisfactory.

These nine domains were supported by various literature on student learning outcomes measurement (Furco & Root, 2010; Payne & Edwards, 2010; Stafford, Boyd, & Lindner, 2003). In the service-learning arena, it is generic to include academic achievement, personal competence, interpersonal relationship development, and citizenship as the intended outcomes (Wang, Ye, Jackson, Rodgers, & Jones, 2005). Further justifications from literature for the nine domains of the COM are detailed below:

• Self-understanding/confidence. Positive impact of intervention programs has been reported on selfconfidence and academic improvement (Keup, 2005). Goleman (1995) attributed increased self-confidence to feeling useful through meaningful legitimate service projects in the community.

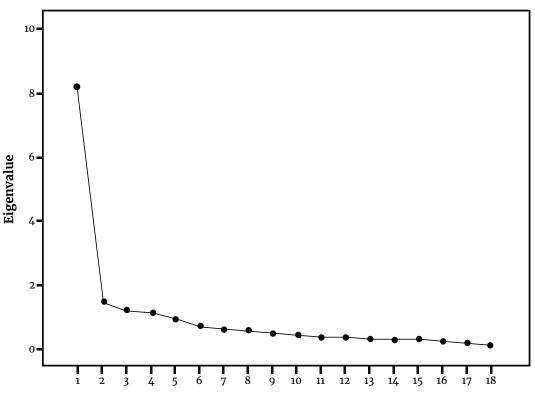
- Communication skills. Pooling results of numerous research reports, Eyler, Giles, Stenson, and Gray (2001) summarized that "servicelearning has a positive effect on interpersonal development and the ability to work well with others, leadership and communication skills" (p. 1).
- Problem-solving skills. Servicelearning is seen as a platform for students to enhance thinking skills and knowledge application necessary for success outside academia. Students produce comprehensive projects and analytical reflective journals, and they demonstrate critical thinking and problemsolving skills in multiple contexts (Eyler & Giles, 1999).
- Civic engagement, social responsibility, and willingness to contribute. Cultivating social responsibility within Asian universities is the third mission of contemporary HEIs (Ma & Tandon, 2014). The civic orientation outcome has always been a major concern in community service evaluations (Reeb, Katsuyama, Sammon, & Yoder, 1998) and thus becomes one of the attributes for measuring university social responsibility.

Table 6. Co	Table 6. Correlation Among the Nine Domains (Pretest)								
Domains	1.	2.	3.	4.	5.	6.	7.	8.	9.
1. Self–understanding/ confidence	1								
2. Communication skills	.75**	1							
3. Problem-solving skills	.61**	·57**	1						
4. Civic engagement, social responsibility and willingness to contribute	·57**	·59 ^{**}	.56**	1					
5. Team skills	.65**	.62**	.60**	.62**	1				
6. Self-reflection	.65**	.60**	.60**	.58**	.60**	1			
7. General knowledge application	.60**	.46**	.59**	.59**	.49**	.70**	1		
8. Caring for others	.48**	.35**	.44**	.63**	.56**	.53**	.57**	1	
9. Intercultural competence	.38**	.30**	.36**	.52**	.49**	.45**	.44**	.59**	1

**p < .01

Table 7. Correlation Among the Nine Domains (Posttest)									
Domains	1.	2.	3.	4.	5.	6.	7.	8.	9.
1. Self–understanding/ confidence	1								
2. Communication skills	.71**	1							
3. Problem-solving skills	.72**	.66**	1						
4. Civic engagement, social responsibility and willingness to contribute	.54**	.43**	.55**	1					
5. Team skills	.65**	.69**	.61**	.61**	1				
6. Self-reflection	.65**	.66**	.66**	.53**	.75**	1			
7. General knowledge application	.64**	.60**	.68**	.59**	.70**	.74**	1		
8. Caring for others	.44**	.42**	.46**	.61**	.59**	.51**	.58**	1	
9. Intercultural competence	.46**	.46**	.46**	.63**	.60**	.56**	.60**	.75**	1

**p < .01



Scree Plot

Figure 1. Scree Plot of the Factor Analysis for the Captioned Scale

- *Team skills*. Team skills captured the attention of group work learning trainers (Prichard, Stafford, & Bizo, 2006). To be a good team player is a necessary skill in future career development in a flat organization environment (Drucker, 1998).
- Self-reflection. Reflection is the process of engaging people to make meaning of their experiences. It constitutes a key stage of a transformative learning model (Kiely, 2005), and self-reflection is the trait with the most significant impact on leadership life skill development (Stafford et al., 2003).
- General knowledge application. It is important to motivate faculty members to consider using servicelearning pedagogy, as students can use knowledge gained in servicelearning experiences to make the world a better place (Miller, 1997).
- *Caring for others*. Students experience a sense of interconnectedness with others and their environ-

ment through a service-learning program. They learn to open their hearts to others and become more empathetic through self and group reflection (Louie-Badua & Wolf, 2008). Service-learning is a pedagogical tool for developing empathy and a conscientious reminder of the perspectives of people in the community (Harding, 1991), and hence it is more likely that service-learning participants will develop into sensible global citizens (Raysen & Katzarska-Miller, 2013) because of their care and compassion.

• Intercultural competence. Learning and serving outside Hong Kong is common among service-learning programs in HESLN member universities and likewise elsewhere in other countries (e.g., Liu & Lee, 2001). Given the differences in the political system, social structure, and cultural aspects, cross-cultural contact is inevitable for participants in these programs. Crabtree (2008) postulated that by placing students

Table 8. Comparison Between COM and Other Scales						
Common outcome measurement	Seven domains of learning indicators (Ma & Chan, 2013)	Civic-minded Graduate (CMG) Scale (Steinberg, Hatcher, & Bringle, 2011)				
Self-understanding/ confidence		Self-efficacy				
Communication skills	Communication skills	Listening				
Problem-solving skills	Problem-solving skills					
Civic engagement, social responsibility, and willingness to contribute	Civic orientation	Volunteer opportuni- ties, contemporary social issues, valuing community engagement, social trustee of knowledge, behavioral intentions				
Team skills	Organizational skills	Consensus-building				
Self-reflection						
General knowledge application	Subject-related knowledge	Academic knowledge and technical skills				
Caring for others	Social competence					
Intercultural competence		Diversity				
	Research skills					

in a cross-cultural setting, hence combining academic study with international service experience, the synergistic scenario can have a positive impact on students' intercultural awareness, communication capabilities, and appreciation of cultural differences.

To measure the development of participants' intercultural competence, items were selected from the Cross-Cultural Adaptability institutes. Inventory (CCAI) and consolidated into intercultural adaptability (Paige, 2004). When the COM is compared with other scales (Table 8), it can be seen to include most of those scales' necessary domains in measuring students' service-learning outcomes.

The Ways Forward

The development of the COM provides a question bank to local institutions for measuring students' learning outcomes through service-learning. It also serves as a milestone of service-learning development in Hong Kong because it is the first Research literature on various claimed attricollaborative research on service-learning butes of service-learning outcomes remains among tertiary institutions. It contributes scarce. Most of the outcomes are intuitive to the development of service-learning in links considered natural among service-

both theoretical and practical perspectives.

Our next ambition is to fine-tune the questionnaire items, keep a balance in each domain in response to the traditional cognition-attitude-behavior model, and make the COM incorporable to all stakeholders (e.g., faculty, service-learning coordinators, students, agencies, etc.) from all HEIs in Hong Kong, including universities, community colleges, and vocational training

The COM questionnaire would also allow for objective comparison between different service-learning programs, enable screening for more effective programs, empower improvements of service-learning administration, and support training for service-learning coordinators and agency coordinators, as well as encourage individual reflection on personal achievements for students. Investigations in this aspect could be enhanced through qualitative research such as focus groups or open-ended interviews of purposively sampled subjects.

reasonable expectations of educators. More vestigating the possibilities of using COM evidence on measuring students' learning for their institutions. For example, Taiwan outcomes needs to be created in Asia, as Normal Teaching University is using the many HEIs start to adopt service-learning COM to compare the learning outcomes as a pedagogy and believe it can create posi- of students from Hong Kong and Taiwan tive impacts on students. Research related before and after conducting service-learnto service-learning should be encouraged ing. A validated Chinese version of the COM among HEIs, and more funding from the questionnaire has already been published by university/government should be avail- a Hong Kong and Taiwanese team (Chao, able for faculty and administrators. It is Liu, Ma, & Liu, 2018). Other countries, like especially important to further construct the Philippines, Indonesia, and Vietnam, a theoretical framework of pedagogy for have also shown interest in using the valiservice-learning and explore the causal flow dated versions. It is indeed encouraging between service-learning program logistics that more research may be performed to and the perceived reasons for successful study the feasibility of applying the COM learning.

With a theoretical framework in hand, COM exploration could be extended beyond Hong Kong, especially in the Asian context. In

learning experts and also in accord with education in Asia, some of the HEIs are inin other countries/cities, while taking into consideration local culture differences and language interpretation variance. Although a similar questionnaire has been developed in Western society, it is important for Asia view of the emergence of service-learning to develop its own based on cultural needs.



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Service-Learning Benefits for English Language Learners: A Case of China-Hong Kong **Cross-Border English Teaching**

Lindsey Gruber

Abstract

This study examines the burgeoning trend of Hong Kong university students conducting English language teaching as service-learning in mainland China, specifically in rural primary schools. The study reports the results of a questionnaire administered to Hong Kong undergraduate students after a series of such trips spanning a 4-year period. In particular, the study examines the students' perceptions of their own service orientation, cultural exchange experience, and language-learning outcomes. The findings allow for a broader qualitative discussion of the potential benefits for English language learners engaging in servicelearning through teaching English. Recommendations focus on the potential for such trips to bolster the confidence and motivation of long-time English language learners, such as Hong Kong students.

Keywords: learning motivation, second language learning, service-learning

In Taiwan, for example, a 2007 initiative by work that meets a community need (Furco, the Ministry of Education provided funding 2001). Often, service-learning happens for service-learning projects and encour- within the structure of a university credaged university students to improve civic it-bearing course where students apply responsibility and professional training theoretical concepts to real-world problems; (Yen & Yang, 2010). Similarly, Hong Kong however, extracurricular service-learning universities have broadened their servicelearning programs, taking advantage of university offices and colleges (Crabtree, a similar Ministry of Education initiative providing partial funding for Hong Kong and mainland Chinese university students to meet or work together for cultural exchange, learning, or service ("Ministry of Education Ten Thousand Student Interflow Programme," 2016; City University of Hong Kong, 2017). These institutions understand service-learning as a method to develop students' moral education and service orientation after graduation (Hok-ka, Wing- in English language learning contexts exfung, & Cheung-ming, 2016; Powers, 2010); amine settings where English is the primary in some cases, service-learning is also used language spoken in the region (e.g., learnto bridge cultural divides (Al Barwani, Al ing English in the United States) rather than Mekhlafi, & Neisler, 2010; Xing & Ma, 2010). settings where English is not the primary

ver the last decade, the imple- At its core, service-learning is a pedagogy mentation of service-learning grounded in Dewey's experiential learning pedagogy in Asia has soared, model (Giles & Eyler, 1994), where formal staging a need for research in study and reflection are paired with the this context (Xing & Ma, 2010). performance of a service through volunteer activities may also be organized through 2008). Ideally, both the community and the student volunteers benefit mutually as the community's need is met and as the students increase their awareness of social issues, gain valuable practicum in their field, or learn about long-term social responsibility to local communities (Bowen, 2014; Cooper, 2014; Fullerton, Reitenauer, & Kerrigan, 2015).

Many existing studies on service-learning

English in China). These studies often show drew on this funding to organize servicethe benefits of service-learning for students learning experiences together with students enrolled in college academic pathway pro- from a mainland university in China. Each grams (Miller, Berkeley, & Griffin, 2015; trip included English language teaching in Perren, Grove, & Thornton, 2013). Service- a village primary school as the primary serlearning in this setting aims to integrate, vice performed by the university students for example, students newly arrived in the (ELLs). United States into their new English language communities both linguistically and culturally through various volunteer activities, but not through the teaching of English as a service. A few studies do report on English teaching itself as service-learning, but do so for preservice English teachers during their teacher training rather than for 1. students who are in the process of learning English. In these studies, the benefits 2. of connecting hands-on practicum with service projects for teachers-in-training are the main areas of concern (Lin, Wu, Wu, Pan, & Liao, 2014; Su & Chi, 2016). However, no studies have yet investigated English language learners (ELLs) teaching English The findings aim to inform service-learning as service-learning.

Because university students in Hong Kong are now participating in English teaching as a service in mainland China, this study aims to investigate a new phenomenon in Hong Kong university service-learning by reporting on a series of non-creditbearing service-learning trips wherein the researcher served as a coleading teacher. The service took place over four summers, initiated and led by the director of the university's unit for English language teaching. The trips were organized as extracurricular activities through a college of the university, and three of four successive trips received local and external funding through new Hong Kong and Chinese Ministry of Education initiatives. A Hong Kong univer- Numerous studies have shown the bensity's Office of Academic Links states that efits for all involved in service-learning the purpose of one such funding initia- programs in university settings. Engaging tive, open to all Hong Kong universities, in service-learning can help students deis to "promote exchange and collaboration velop leadership expertise and professional among Hong Kong and mainland Chinese competencies such as teamwork and cominstitutions and to enable local students to munication skills (Fullerton et al., 2015; gain a thorough understanding of main- Hok-ka et al., 2016; Newman & Hernandez, land China" ("Ministry of Education Ten 2011). A study by Markus, Howard, and King Thousand Student Interflow Programme," (1993) investigating service-learning in a 2016, para. 1). Within this funding source university political science course found framework of cultural exchange, the finan- measurable academic benefits when the cial support could be used for a variety of service was paired with formal classroom learning activities, including short-term instruction and reflection. This pairing alstudy abroad programs, joint academic lowed students to apply theoretical concepts projects, or service-learning. The trip or- to real-world settings. That same study ganizers were also free to set their own found that students in a service-learning program agenda, themes, and learning ob- course, when compared to students in a

language used in daily life (e.g., learning jectives. The trips investigated in this study

Herein, I examine the Hong Kong students' perspectives of their own personal goals for participating in these service-learning trips, and I set out to better understand how the students perceive the ways that the trips affected:

- their public service orientations,
- their cultural exchange in China, and
- most importantly in this study, their 3. perceptions of their own language learning development, given the linguistic focus of the service project.

organizers in Hong Kong as they consider best practices in arranging formats and developing curriculum for such student service-learning. With further research, the findings may also have implications for ELLs conducting service-learning English teaching in other contexts where crossborder service is possible or where there exists a community need for improved English language skills among pockets of linguistically diverse populations.

Review of the Service-Learning Literature

The Benefits of Service-Learning

traditional political science course, had when the service involves interacting in higher final grades and reported rising the community and is paired with reading, to their maximum academic potential in writing, and reflection (Askildson, Kelly, greater numbers than students enrolled in & Mick, 2013; Heuser, 1999; McCarthy, the traditional course (Markus et al., 1993). 1996). Indeed, service-learning activities result in benefits to the community (Giles unscripted English language environments, service-learning projects can contribute to and improve their own English fluency and fixes (Bowen, 2014), helping to advance words, these studies highlight how ELLs in service-learning participants even grew not perform English language teaching as in their appreciation for human diversity a service. and experienced a long-term altering of their perception toward society for years after the service was completed (Fullerton et al., 2015). Finally, it has been found that students who participate in servicelearning during university are more likely to continue volunteer work after graduation and maintain a service orientation toward society and their community (Astin et al., 2006).

Due to the number of benefits observed, found that positive outcomes for students service-learning programs have been included workplace preparation, academic embedded in a variety of contexts around growth, and social development of longthe world. Briefly reviewing the research term civic responsibility awareness (Hokon service-learning across English lan- ka et al., 2016). These benefits were echoed guage learning settings and Hong Kong by Ngai (2006), a professor of sociology, university settings in particular allows for who found that students participating in consideration of the potential benefits of a service-learning course at the Chinese service-learning English teaching as per- University of Hong Kong benefited from formed by the Hong Kong undergraduate increased self-efficacy and the ability to ELLs in this study.

Service-Learning for U.S. ELLs

The incorporation of service-learning for ELLs in college and university pathway programs in the U.S. has been shown to produce various benefits. By participating in community service to low-income communities, international students develop a greater understanding toward issues of race and class in America. Interacting in communities through service also encourages better cultural cohesion, lends exposure to volunteer work, and improves awareness Studies of service-learning within English of the mutual benefits of service-learning language teaching (ELT) contexts remain (Miller et al., 2015). Beyond these social and focused, understandably, on teacher trainpersonal benefits, studies indicate that par- ing programs (Lin et al., 2014; Rueckert, ticipation in service-learning creates op- 2013; Su & Chi, 2016), not on ELLs. The portunities to raise international students' impetus for teachers in training to engage English language proficiency, especially in service-learning is the opportunity to

In addition to career and academic benefits, align well with a communicative approach when service-learning organizers priori- to language learning. When international tize reciprocity, service-learning can also students must interact in authentic and & Eyler, 1994; Jacoby, 1996). When focused as is common for much service-learning on social justice, as opposed to charity, outreach, they are prompted to focus on long-term solutions rather than temporary intelligibility (Miller et al., 2015). In other societal change (Cooper, 2014; Fullerton et the United States can benefit linguistically al., 2015). A longitudinal study found that through service-learning; however, they do

Service-Learning for Hong Kong ELLs

Substantial research on service-learning at universities in Hong Kong is beginning to emerge. The first longitudinal study on the impact of service-learning was published in 2016 and looked across 425 Hong Kong students. In that study, researchers from Lingnan University, first to establish a service-learning office in Hong Kong, care for vulnerable groups in Hong Kong. Other Hong Kong-based studies report on university students' service to the elderly as part of a community psychology project (Chan, Ng, & Chan, 2016) and to needy children and new migrants from China (Ngai, 2006). However, no research in the Hong Kong context specifically examines servicelearning through English language teaching conducted by ELLs.

Service-Learning Through English Language Teaching

gain professional experience in real-life and economic structure, China instituted contexts. One study of community English its "one country, two systems" policy to language teaching in the United States ensure high levels of autonomy for Hong found that teachers-in-training, when Kong until 2047; nevertheless, Beijing's given the chance to participate in service- leadership is committed to the unification learning teaching during their MA program, of all regions of China (Hartnett, Keränen, & reported greater levels of confidence to Conley, 2017; So, 2011). As a result, the curteach English postservice; those teachers rent leadership of the Chinese government also self-identified as professionals more deploys a domestic policy largely centered strongly than prior to the service-learning on a Confucian-inspired notion of national teaching (Rueckert, 2013). Another study "harmony," which can be understood as found that preservice teachers developed "an explicit discourse on the rationalizadeeper reflective teaching abilities after ser- tion, maintenance, and enforcement of vice-learning teaching (He & Prater, 2014). stability and order by the State in reaction Overall, teacher training programs turn to to the rapid economic-political changes service-learning to improve professional and sociocultural diversifications" (Wang, preparedness and confidence in teaching.

Despite the growth of service-learning, research on ELLs teaching English as a service is lacking. The closest example may be a study on a service-learning course at the Hong Kong Institute of Education, which paired students to help the elderly at a community center. Although English tutoring is mentioned as one of the many services performed, in addition to teaching computer skills, dance, singing, and cooking, no specific details about the English teaching outcomes or preparation are given (Tam, 2014). Indeed, few reports also specifically engage service-learning trips happening between Hong Kong and China or give focus The service–learning trips examined herein to ELLs teaching English in Asia (Su & Chi, were partially funded through mainland and 2016). However, recent service-learning Hong Kong government sources presumably trips to mainland China urge investigation. established to promote cultural exchange University ELLs in Hong Kong can now and implement long-standing policy (Kuahparticipate in English language teaching as Pearce & Fong, 2010; Wu & Siu, 2017; Zhao, service in mainland China, and the presence 2015). However, the purpose of this study is of new financial support from the Chinese not to build critical cultural insights about and Hong Kong governments to build cross- the relations of power forged through such border relationships among students ex- government funding but, rather, to examine pands such possibilities, again underscoring the Hong Kong ELLs' own perceptions of the need for scholarly examination.

The Hong Kong-China Service-Learning Context

Sociopolitical Context

Before introducing the research methodology and results, it is likely useful to briefly review the sociopolitical context as well as the English language learning context in China and Hong Kong. In 1997, after 150-plus years of British colonial rule, Hong Kong's sovereignty was passed to Beijing. Hong Kong is currently designated a Special Administrative Region of China. Given Hong Kong's distinct legal, social,

Juffermans, & Du, 2016, p. 301). Amid this policy and discourse focused on the need for development and change, or "what ought to be" (Wang et al., 2016, p. 302), the Hong Kong and mainland China governments actively fund cross-regional projects designed to pave the way for harmonious social relations and integrations (Kuah-Pearce & Fong, 2010; Wu & Siu, 2017; Zhao, 2015). The English language learning context is included insofar as schools and universities are offered government funding to ensure that ongoing partnerships and relationships are formed between Hong Kong and mainland China.

service-learning through teaching English in China and, primarily, to explore potential benefits to their language learning and their public service orientation. Nevertheless, sociopolitical considerations of the trip are not easily divorced from students' perceptions, and the research instrument, accordingly, captures responses about students' perspectives toward this cross-cultural exchange. The discussion and recommendations sections, therefore, recognize and evaluate the sociopolitical context but do so in reference to and in conjunction with the student-respondents' comments.

Although Cantonese is the primary language used by Hong Kong people, Hong Kong, as a former British colony, has maintained English as one of its official languages since the handover in 1997. English plays a role in Hong Kong such that it has a greater curricular focus in the education system than in mainland China, where the British colonial legacy does not exist, though the focus on English training in China has been increasing in recent years due to its perceived links to the modernization of China, financial wealth, and personal well-being (Nunan, 2003). With respect to the service-learning trips investigated in this article, most Hong Kong university ELLs attending had already taken at least 12 years of English classes starting in elementary school, if not earlier. Further, after entering university, most Hong Kong students are required to take additional English classes to better prepare

Since 2001, the mainland Chinese government has required all primary and secondary school students to learn English, but the number of years and the intensity of study are still significantly less than in Hong Kong (Nunan, 2003). Additionally, Chinese students participate in a number of provincial government's subsidy for partnering with a and national exams that include assessment mainland university for cultural exchange of their English language proficiency for and colearning through joint service outentry to junior high and high school as well reach. Hong Kong university ELLs of all as university, and it is widely recognized majors joined the program to participate that these exams directly impact the edu- as teachers of English to elementary school cational, career, and life paths of Chinese students in rural China. Prior to departure, students (Cheng, 2008). However, as educa- the Hong Kong ELLs prepared for sevtion is funded locally, educational inequality eral weeks, planning lessons and receiving has been found between schools on coastal training under the guidance of the leader, cities in the east and those of rural areas in the language unit director at the university, the west of China, which often have fewer and coleading teachers who were English resources for attracting highly trained language lecturers at the university. Each English language teachers or for purchasing trip was attended by 7 to 15 Hong Kong unieducational technology and supplemental versity participants (ELLs) and one to three learning materials (Yang, 2005). To further English language lecturers. complicate matters, the English language has almost no significance in the daily life of rural schoolchildren, yet the chance of upward mobility relies, at least partially, on their ability to do well on China's national exams (Hu, 2003).

teaching became a salient mode of service to the format of a week-long English camp. a rural Chinese elementary school. Indeed, Lessons were theme-based and tailored to the lack of educational resources in rural each group's level. The lead teachers rotated schools has been linked to lower profi- between classes to assist and oversee the ciency in English, and poor performance on teaching. Regular feedback was given to English exams is recognized as one of the the university ELLs to improve the teaching

factors that prevent Chinese students from entering university or finding well-paying jobs (Hu, 2003). Because service-learning strives for reciprocal benefits in meeting community needs and enhancing students' education, Hong Kong universities, such as the one connected to this project, have identified service-learning through English teaching as an effective way to meet an obvious need in a location a reasonably short distance from Hong Kong. By collaborating with a mainland university, Hong Kong ELLs would potentially benefit from cultural exchange, and by reaching out to a rural school, they would have an opportunity to grow in service orientation, while the rural schoolchildren would, in turn, benefit from the Hong Kong ELLs' more advanced level of English. It should be noted that this research focuses primarily on understanding the gains related to language learning, as perceived by the Hong Kong ELLs, as them for university-level academic English. possible benefits of this service-learning outreach.

The Service-Learning Trip

From 2013 to 2016, a prominent university in Hong Kong arranged four service-learning trips to rural China, using the mainland

Upon arrival in China, the team traveled with its mainland university counterpart to a rural area where students worked together to teach English at a primary school. Teams of three to four university ELLs per classroom served as English teachers and stayed In light of this context, English language with the same class for five school days in

and the learning experience of the children. Cultural Exchange Question During the service, several meetings were arranged for students and leaders to share their reflections, sometimes conducted in Mandarin to better accommodate the mainland university students who did not speak Cantonese and were less proficient in English. These reflections were often structured by sharing classroom highs and lows Language Learning Question from the day followed by recommended solutions to troubleshoot problems. After each service trip, students were required to complete various reflection projects. For example, after one trip, students collaborated in groups to produce a multimodal reflective piece in English or Cantonese. Using a digital storytelling format, the university ELLs gave an open-ended reflective summary of their learning as it related to cultural exchange and service outreach.

Methods

The Participants and Questionnaire

The researcher collected data through an participants of cross-border serviceonline questionnaire from 13 Hong Kong learning (Cox, Murray, & Plante, 2014) students who participated in the aforementioned service-learning trips from 2013 research, and scope of their study reasonto 2016. An invitation was sent in 2016 to ably correlated with this one. Accordingly, all previous participants of the servicelearning trips, and 13 volunteered to participate. Prior to questionnaire dissemination, research ethics clearance for surveying seeking to qualitatively understand the human subjects (Institutional Review student experience of service-learning Board) was formally obtained through the English teaching. university's Survey and Behavioral Research Ethics Committee. A participant information sheet was distributed and consent was obtained from the participating university students. The questionnaire was designed to collect students' perceptions of their personal experiences on the study tour through quantitative and qualitative responses. The following research questions guided the investigation.

Service Orientation Questions

Why did students join the servicelearning trip?

What did students perceive as the main outcomes of the trip?

How did students perceive the service trip to influence their thinking about future involvement in volunteer work?

Did students make personal goals for cultural exchange in mainland China, and did they perceive that these goals were achieved as an outcome of the trip?

How did students view their English abilities prior to the trip, and did they perceive any linguistic or language learning benefits from the experience of becoming a teacher of English for elementary school students?

To identify perspectives, the online questionnaire was distributed after the service trip per the example of Ngai's (2006) postservice investigation of a service-learning course; however, the questionnaire also utilized the attitudinal ranking questions composed by University of Central Florida researchers in their study of nine student since the purpose of their trip, aim of their the questionnaire in this study sought to capture numerical ratings to help interpret students' open-ended comments, overall

The questionnaire used in this study consisted of 15 questions and three question types paired with write-in sections for collecting more detailed responses and explanations. In the first section of the questionnaire, yes/no questions were used to collect demographic data such as past volunteer work or service-learning experience. Next, multiple choice questions were used to identify students' main motivations for joining the trip, for capturing their perceptions of the main outcomes of the trip, and for detailing their reasons for believing that the service did or did not help them to improve their own English skills. In each case, participants were asked to choose one to three reasons for each answer, with the option of adding any unique reasons that were not listed. Finally, three Likert-scale ranking questions were used to capture students' perceptions of their pretrip levels of confidence using English and to understand

the frequency of their English communi- pretation, that is, they offer another point age are reported for each result.

Ouestionnaire Dissemination

2016. The questionnaire was not sent to content analyzed for overarching themes, research exclusively investigated the out- (2006). Such methods proved useful, as they comes and benefits for the participating also align with past work on service-learnthe small size of the service-learning trips of grounded theory to explore student de-Some students participated in more than discussion is informed by my own experilimiting the possible sample size. Responses service-learning literature, deepening the were collected from 13 participants, and interpretation of trends present across the roughly equal numbers of participants numerical and qualitative data. from each trip responded (2013 N = 3, 2014 *N* = 4, 2015 *N* = 4, 2016 *N* = 3), capturing a meaningful cross-section sample of student perspectives on this new service-learning program across 4 years.

Method of Analysis

As a qualitative study of student perspectives on language learning in a unique or 77%, previously participated in volunservice-learning context, this research has teer work, such as working in homes for method depends upon sorting and making to join the service-learning trips. Nearly all comparisons across collected data while students (N = 12, or 92%) reported that they ence in an iterative way. Doing so creates of their three primary motivating factors. premise that the researchers are not neutral but "possess stocks of knowledge" and can by nearly 70% (N = 9) of the student volun-"be reflexive about it" (p. 15).

Accordingly, for each question type, numerical data were gathered and calculated, offering a baseline from which to develop ideas about student perceptions. Relative When given a similar list of factors, inpercentages in conjunction with the actual cluding helping others and gaining leadernumber of responses serve as a start- ship experience, the reasons that students ing point for thinking through the afore- recalled for choosing to participate in the mentioned research on service-learning trip often matched the outcome that they and motivation. However, open-ended perceived to have achieved at the end of responses also inform an iterative inter- the service. After the service trip, 92% (N =

In cases where students responded in an unexpected way or in a majority, open-end-An online questionnaire was sent to Hong ed answers were listed as part of the analy-Kong ELLs who had participated in any of sis (see following sections). As evidenced in the four service trips between 2013 and the discussion, open-ended questions were the mainland university students as this following recommendations by Charmaz Hong Kong university students. Responses ing, such as that conducted by Ngai (2006) were collected anonymously and on a vol- and Nickols, Rothenberg, Moshi, and Tetloff untary basis. The sample was limited by (2013), both studies turned to the principles (each trip ranging from 7 to 15 participants). velopment. Accordingly, the subsequent one trip, and some students who had since ence of the service-learning trip, knowledge graduated could not be reached — further of the context, and understanding of the

Findings

Service Orientation Goals and Outcomes

The questionnaire data show that students perceive themselves as having some service awareness prior to this trip. Ten students, followed the iterative approach of grounded the elderly or orphanages. The data also theory, first developed by Glaser and Strauss show that a strong service orientation was (1967). As Charmaz (2006) has noted, this a contributing motivator for the participants consulting sources and one's own experi- wanted to "do good/help others" as one "an open-ended study" that adopts the The next most common motivation was to "learn more about volunteer work," chosen teers. The third most common motivating factor, chosen by nearly 31% of students (N = 4), was to "gain leadership experience for job/scholarship/society applications."

through the service trip, and almost 70% (N to the mainland" as a primary result of their = 9) "developed a desire to do more volun- joint service. In other words, when asked teer work in the future" because of service- to describe the cultural exchange outcomes, learning. The numbers on leadership had compared to their own starting goals for more variation. Nearly 54% (N = 7) felt that attending the trip, more students selected they "gained leadership experience for job/ "learn more about the mainland," but no scholarship/society applications" through additional students chose "achieve a greater the service experience.

When asked if they would like to participate in more volunteer work in the future, the majority answered "yes" in their openended comments. One student expressed Language Learning Goals and Outcomes a hope to perform "service similar to this one because I believe education can change one's future." Another wrote, "Yes, we can contribute our knowledge and talents in improving others' conditions."

Cultural Exchange Goals and Outcomes

Given that the trips were funded in part by government subsidies that link Hong Kong and mainland university students in joint projects, participating students were surveyed about their cultural perceptions of the trip. Out of three choices describing motivating factors related to cultural exchange, nearly 40% of respondents (N = 5) wanted to "exchange ideas with written responses about their own confimainland students" as a primary motivat- dence levels: ing factor in volunteering, whereas only 23% (N = 3) chose "learn more about the mainland"; fewer participants, about 15% (N = 2), indicated a desire to "achieve a greater personal connection to the mainland" as a main motivating factor. One open-ended response suggested another motivating factor for joining the trip: "making friends with mainland and Hong Kong students."

Because the motivating factor "exchange ideas with mainland students" is often used in university materials to promote the exchange learning trips, the researcher aimed to better elucidate and isolate the meaning of that phrase. Thus, after select- All comments on confidence in English gave ing motivating factors, as reported above, a specific self-assessment and focused on the participants were asked to identify a weakness in one particular linguistic what they best achieved during the service. Among these options, students could choose cultural exchange outcomes: They could select that the trip allowed them "to learn more about the mainland" or to "achieve a greater personal connection to the mainland." Students could also choose "Other" After having taught English as a service and write in any response. Overall, 31% for one week, 46% (N = 6) felt that their (N = 4) chose "to learn more about the perspective of their own English abil-

12) felt that they did indeed "help others" had achieved a "greater personal connection personal connection to the mainland." No students chose to write in a new answer for "Other."

The data show that improving English was the least motivating factor behind the students' choice to participate in English language teaching as a service; only one student identified with this language improvement goal. When asked to describe their levels of confidence in using English before the trip, one student (8%) felt "very confident" using the English language, and seven (54%) described themselves as "confident." Five students, or 38%, felt "only a little confident" in English. No students reported a total lack of confidence in their English ability. However, these "less confident" students (N = 5) provided additional

"[I am] not fluent English at all time."

"I believe I can do much better in writing and reading part."

"I lack vocab in my mind and my speaking skill is not good enough but I think I handle the daily conversation."

"Even [though] I got into university, I still feel a little bit afraid of speaking English."

area: fluency, writing, reading, vocabulary. One comment focused on a feeling—fear of speaking. One comment focused on a strength, daily conversation, while contrasting that with a weakness.

mainland," and 15% (N = 2) felt that they ity had changed, although the other 54%

(N = 7) did not have a change in perception. on speaking to elementary school students A student comment illuminates this change in English during daily lessons (100%, ceived a change in confidence level: "I am throughout the trip (67%, n = 2). more confident to communicate with others using English." Twenty-three percent (N = 3) felt that their English had improved as a result of teaching English. Finally, 53% (N = 7) reported feeling more motivated to continue improving their own English skills after returning from the service teaching. Some students' comments explain a little more about their improved motivation to study English:

"English teaching makes me more interested in the language."

"[I want to improve my English] to ensure that I really have the ability to teach English to the children."

"[The elementary school] students . . . enjoyed learning English and gave me motivation [to improve]."

For those students who did not perceive an improvement in their English skills, they commented, understandably, on the low level of English teaching that they performed, the short time spent teaching (just one week), and the high frequency of Mandarin and Cantonese spoken between teammates throughout the trip. Indeed, One of the initial findings of this study sugdents who attended a joint trip with a main- accords with previous studies (Astin et al., land university, 75% (*N* = 9) "rarely" spoke 2006; Fullerton et al., 2015). The questionbetween Hong Kong team members, 23% them, reflect one of the Hong Kong governeach other, 54% (N = 7) "rarely" spoke students' charitable inclination and whole-English, and 23% (N = 3) "never" spoke self education (Xing & Ma, 2010). English with their Hong Kong peers. In other words, all Hong Kong students remember speaking at least some English with the mainland students, but 23% (N = 3) of Hong Kong students responded that they "never" spoke English with their Hong Kong peers.

For those students who did sense an im- perceived that they learned more about provement in their language skills (23%, leadership than they expected to, might N = 3), when asked to choose up to three suggest that this service-learning trip supporting reasons, they focused primarily influenced students' perceptions about their

and defines it as "attentiveness": "I became n = 3), receiving feedback on lessons from more attentive to my own pronunciation the lead teachers (67%, n = 2), and casually and writing skills." Another student per- speaking with the lead teachers in English

> Quantitative data in questionnaire results, such as that reported here, help to focus the researcher in the process of developing a better understanding; yet in accordance with the dedications of grounded theory to sort through multiple depictions of the social world and to uphold reflexivity and personal experience (Charmaz, 2006), the quantitative data serve as one part of a broader qualitative reading. Thus, the following section advances a discussion organized around three considerations that arise from reviewing the numerical and open-ended questionnaire responses as well as from thinking through the researcher's familiarity with the service-learning trips and the Hong Kong context: the service orientations reported, the cultural exchange experiences, and the language learning outcomes. Subsequently, recommendations for ELLs conducting service-learning and, more specifically, for Hong Kong universities ELL programs are suggested.

Discussion

Service Orientation Considerations

when asked about the primary language gests a positive impact of service-learning spoken between teammates, for those stu- on students' service orientation, which English to their mainland counterparts, and naire data collected on service orientation 25% (N = 3) "sometimes" spoke English demonstrate that many of these students with them. When asked the same ques- would like to do more service work in the tion about the language of communication future. These responses, and others like (N = 3) "sometimes" spoke English with ment's priorities in education: to develop

> The idea of engaging in service work in the future was often tied to the idea of leadership in students' open-ended responses, including comments expressing a desire to provide education and improve others' conditions in the future. These comments, combined with the finding that students

expressed a view that they received this could detail how regional and cultural idenparticipating in the service trip, organizers may be able to strengthen this outcome by exploring the research on how to organize effective and ethical service-learning leadership structures. Heuser (1999), for example, proves pertinent, as he cautioned organizers about the leadership structure of volunteer service, suggesting that unchallenged hierarchical structures can unintendedly uphold negative or false stereotypes and disadvantage the poor. Service-learning participants might explore such sources, investigating the importance of reciprocity, ensuring that all parties benefit from the service. Mueller and Lee (2010), to take another example, suggested that service receivers work mutually with service-learners to identify the needs that the service will address. Perhaps including this step at the student leadership level while organizing the service, in addition to academically exploring concepts of reciprocity, hierarchy, and power, could prove beneficial for students' leadership training. Overall, service-learning is promising for its contribution to students' whole person development, but organizers must recognize that service-learning is most successful & Eyler, 1994).

Cultural Exchange Considerations

According to the data, the partial funding by government initiatives to help Hong Kong students learn more about the mainland and to connect through exchange with mainland university students both did and did not influence the participating students' perceptions toward the mainland. Although students do express an interest in learning and cultural tensions and lead to mutual, more about China and sharing ideas with cross-cultural understanding. Educators in mainland students, most of those students Hong Kong all too often see a negative divido not primarily seek nor perceive to benefit sion between mainland and local students from a greater feeling of connection to the at Hong Kong universities and would likely mainland. This raises questions regarding support breaking down stereotypes and inthe Hong Kong students' reasons for seek- creasing students' open-mindedness; one ing greater knowledge and exchange of interpretation of the data collected in this ideas. As other scholars have urged, more study suggests that joint service holds the research into this issue can be conducted to potential to make a positive impact on Hong better understand how this funding ulti- Kong university students, to promote open mately influences students' cultural identity dialogue, and to strengthen students' in-(Kuah–Pearce & Fong, 2010). Curiosity about tercultural sensitivity in addition to service life in China or a desire to express their orientation as documented in other studies

own future roles in society. Since students of course, be a factor here; future research personal benefit of leadership training by tities and national discourses intersect with service-learning motivations and outcomes.

> Understanding the cultural implications of service-learning amid the complicated geopolitics of the Hong Kong-China context proves especially difficult. Perhaps there is a balancing of concerns when evaluating the cultural exchange aspect of the trip. On the one hand, some activists and lawmakers indicate a political motive embedded in the available funding sources from the Chinese and Hong Kong governments in light of recent political and cultural tensions in Hong Kong. To them, the growing number of funded exchange opportunities for Hong Kong students on the mainland can be likened to the proposed national education curriculum that was shelved after protests in 2012, revealing a government motivation to strengthen the Hong Kong students' Chinese identity (Wu & Siu, 2017; Zhao, 2015). As noted across recent scholarship on China, the Chinese government remains dedicated to improving unification and national harmony across its regions (Hartnett et al., 2017), and these multiple funding sources likely play a role in this integration process.

when following guidelines of best practices On the other hand, taking advantage of such from the literature, such as considering funding to initiate service-learning offers the reciprocal nature of the service (Giles benefits to students, as documented in this article. Unlike a recent policy proposal from a top Hong Kong university, which was believed to require student exchange in the mainland by 2022 (Lam, 2015), the service-learning activities investigated in this article are not compulsory for students, and the funding sources are transparent. Additionally, improving relationships among students in a delicate geopolitical situation is itself an important social action and one that can productively ease political own identities as "Hong Kongers" could, (Al Barwani et al., 2010; Fullerton et al.,

2015; Xing & Ma, 2010).

Language Learning Considerations

Improving Hong Kong students' English Motivation, language awareness, and conunintended language learning benefits that to contribute to the acquisition of a second suggest the value of investigations. Nearly language (Clément, Dörnyei, & Noels, 1994; half of the students reported a change in Gardner, 1985; Kennedy, 2012; Little, 1997). perception of their own English ability after Yihong et al. (2007) argue that research on in language ability, of course, is less likely learning, such as language identity, distintheir own language use, a comment perhaps demonstrating how teaching a subject service-learning to increase these noncan hone understanding of that subject in new ways. Next, there is some evidence of increased confidence resulting from the service-learning teaching. Most significantly in this study, a small majority of the participants surveyed perceived a feeling of greater motivation to improve their English as a result of the service-learning trip.

One possible explanation for this new motivation lies in the students' increased service orientation and care for the service recipients, as found in Ngai's (2006) service-learning study in Hong Kong. One student explained that her reason for wanting to improve her English after the service was "to ensure that I really have the ability to teach English to the children." Students' desires to address the community need and improve their own service skills might herein grow simultaneously. These student comments may also affirm the findings of Yihong, Yuan, Ying, and Yan (2007) by linking these Hong Kong students' new motivation for improving their English (helping the service recipients) with a consequential identity change because of their new relationship to the language (as a teacher of English), further propelling their interest in the language. Alternatively, perhaps this increased motivation can be explained by pedagogical research on power and learning; when power and autonomy are given to learners, and when everyone teaches and everyone learns, motivation increases (Kohn, 2010; Richard-Amato 2002). To allow To extend the reported benefit gained Hong Kong students to teach English in a through interacting in English with the semiformal setting offers them a greater lead teachers, specific strategies for level of autonomy in the language than they sharing experiences in English could be have likely experienced during their 12-plus developed for future trips across a series of

years of language study, and perhaps this new identity as an expert of the language could increase students' motivation.

was never a stated goal of the service trip, fidence, recognized as benefits by some but this exploratory study reveals some students on this trip, have all been shown the service teaching. This reported change these nonlinguistic outcomes of language to reflect an improved proficiency or ac- guished by Gardner (1985) from linguistic curacy than to represent benefits in other outcomes, have not been given enough crucial areas of language learning develop- attention by teachers and researchers in ment. First, one student comment reported English as a foreign language (EFL) settings a greater awareness (or "attentiveness") of compared to English as a second language (ESL) settings. Indeed, the potential of linguistic language learning elements is documented in ESL settings (Heuser, 1999; Miller et al., 2015), but teaching English through service-learning, if students' language enhancement is prioritized as a goal, could improve language awareness, confidence, and motivation. The reported comments from students to this effect, as noted, provide good cause for further research.

Recommendations for ELLs Teaching English as Service-Learning

Language of Leadership and Reflection

If increasing Hong Kong students' language learning outcomes through service English teaching is deemed a goal, then the comments given by those participants who did perceive an improvement in their English ability should be considered when organizing such service. Those participants who reported language improvements pointed to interactions in English with the lead teachers and to receiving feedback on their lessons from the lead teachers in English. The finding suggests that the leadership of the trips and the language that those leaders use to engage with the students may be important components to reaching any language learning goals. The finding provides assurance that daily feedback after student lessons as well as highly engaged leadership likely will improve outcomes.

Kong students seem to fall back on speaking Kong-China service-learning trips bear in Cantonese in joint trips with mainland on the quality of the service component students. Other service-learning trips have and its impact on students and on the elreportedly been organized with a goal of ementary school learners. First, the English encouraging ELLs to speak more English teaching objectives were simplistic and outside the classroom (Miller et al., 2015); graspable for the student teachers. As some consequently, if this goal is to be pursued, rightly acknowledged in their questionthen finding ways to support and enhance naire responses, "the English we used was Hong Kong students' own reported mo- not that much" and "only simple English ments of using English during the service words are taught." Some student teachers trip proves vital.

Heuser (1999) found that the potential for language learning was maximized when students communicated in English about their experiences after performing a community service. Other studies found that the learning outcomes of service increased when reflection was added to the structure of service-learning (Perren, 2013). Drawing from the literature on the link between (1) reflection and service-learning outcomes (Perren, 2013), (2) communicating in English about the service-learning experience and increasing English language skills (Heuser, 1999), and (3) pairing service-learning with formal instruction (Markus et al., 1993), a path for maximizing the language learning benefits for Hong Kong ELLs becomes clearer. To aim for improved English language outcomes, service organizers should consider increasing the amount of reflective content shared in English both during and after the trip and could consider embedding English language teaching service in a formal course of English study. To date there have been no reported cases of service-learning English teaching embedded in an English language course, and Hong Kong provides a context where this may be possible.

Concerns About Teaching Quality

Part of developing recommendations is recognizing that there could, understandably, be concerns about the quality of English dents in service-learning trips—the claims language teaching performed by English are limited. Further, this study investigates language learners who are not undergoing Hong Kong learners and their involvement formal training in the subject. After all, as in service-learning projects in a rural revealed in the questionnaire results, nearly primary school in China; the expansion of 40% of the student participants reported these results and recommendations to other feeling "only a little confident" in English contexts is promising but requires further prior to the service. However, the concern research. Furthermore, for such servicemust be balanced with the reality of the learning initiatives to be effective in any English teaching context and with the benefits to the student teachers themselves and growth in English during these trips need to the recipients of the teaching, primary school learners in rural mainland China.

integrated group activities. Indeed, Hong Three observations from these Hong even acknowledged the simplistic teaching objectives as a main reason why they did not perceive an improvement in their own language proficiency. Second, set against a context of teaching in rural village schools that have limited English and teaching resources (Yang, 2005), the student teachers had a higher English proficiency level than the elementary school students and could provide more communicative English lessons than what was typically offered at the school. Lastly, keeping in mind principles of reciprocity in service-learning (Giles & Eyler, 1994), the organizers believe the Hong Kong students gain valuable service and leadership skills while the service may also benefit the children of rural China by making English studies more relevant. Despite these rationales, the organizers recognize that there may be a danger if professionalism in teaching is not ensured. The leaders of these trips thus played an active role in the service planning and execution. Lead teachers reviewed lesson plans, observed classes, and gave feedback to the student teachers throughout the service period.

Limitations

In pursuing recommendations, the limitations to the study should be kept in view, especially given the exploratory nature of the research. Because of the small sample size—owing to the small number of stucontext, several factors limiting student to be recognized. These include the short length of the service, the high frequency of other languages spoken throughout the

and sociopolitical contexts that may limit Ma, 2010). language use and project sharing, and the need for strong, research-based leadership to ensure reciprocity through proper training and support before and during service.

Conclusion

Hong Kong university ELLs have begun teaching English in rural China through service-learning programs funded by government initiatives to unite students in cross-border service for the sake of cultural exchange and increased knowledge of the mainland. Since no prior studies have investigated ELLs teaching English as servicelearning in China, this article addresses a gap in the literature by reporting on a series of four cross-border service-learning trips to China in which the participating university students of all majors taught English in a rural school as their primary service. Findings on service orientation benefits align with prior research showing that students perceive an increase in a desire to help others and to participate in future volunteer work after joining such trips. Although cultural exchange was a perceived outcome for some students, building a "greater sense of connection to the mainland" was not clearly articulated by the sampled students. Consequently, although cultural unification seems to be a persuasive motivator for the funding source of such service-learning trips, organizers might foreground mutual understanding between students as pursued in other service-learning projects that seek to build students' tolerance and intercultural

service, the complex regional identities sensitivity (Al Barwani et al., 2010; Xing &

The greatest concern for this study is the perceived language learning outcomes, and there is evidence to suggest that this type of service-learning could boost nonlinguistic features of language learning, especially when made a goal of the service-learning project. When the English teaching objectives are tailored to the university students' competencies and the service recipients' needs, such service-learning could effectively increase language awareness, confidence in using the language, and motivation to improve language skills. Student reporting of these benefits combined with the literature indicate possible ways to increase outcomes: including additional reflective communication about the service in English, pairing the service with formal study, and ensuring highly engaged leadership and feedback throughout the service teaching. Ultimately, undergraduates teaching English as a service are likely to reap benefits as the research in this area continues and as universities work together to reflect upon student and teacher experiences. Looking across 4 years of servicelearning in the China context, and taking questionnaire results into account, the potential for teaching English as servicelearning offers a new dimension to the educational experience for university ELLs in contexts where English language teaching proves salient as service.

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Faculty Experience of Service-Learning Pedagogy at a Hong Kong University

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Abstract

Given the development of Service–Learning (SL) in Hong Kong, it is important to study the experience and impact of S–L on faculty members, the challenges and the professional development they need to successfully integrate S–L into teaching. This study adopts the Faculty Engagement Model to conceptualise the factors affecting faculty engagement in SL at Lingnan University in Hong Kong. Forty faculty members completed the online survey and 17 faculty participated in individual interviews. Over 80% of faculty members indicated that SL had a positive impact on student learning and community engagement. Only 28% of faculty members indicated that SL had little influence on faculty research, promotion and tenure. Similar research could be conducted at other universities to solicit further faculty responses. Experts in the field and university management committed to S–L should explore ways to facilitate faculty member's integration of SL, research and teaching, which could also influence their career paths.

Keywords: service-learning, faculty engagement, teaching and research

than a decade. Following the research agenda suggested by Giles and Eyler (1998), many institutions at first focused on how SL could impact student learning and then extended it to faculty's experience with SL. Research on the impact of SL on Hong Kong students has suggested that SL enhances students' learning with respect to various skills/attributes, including subject-related knowledge, communication skills, organizational skills, problem-solving skills, research skills, social competence, service leadership, and civic orientation (Chan, Lee, & Ma, 2009; Ma & Chan, 2013; Ma, Chan, & Chan, 2016; 1. Ma & Lo, 2016; Snell, Chan, Ma, & Chan, 2013). Compared with research on students, research on the impact of SL on Hong Kong SL teachers (i.e., faculty members) has 2. been very limited (Cooper, 2014; Lambright & Alden, 2012; Shek & Chan, 2013). Little is known about the processes and practices

ervice-Learning (SL) has been faculty members have used to incorporate practiced in Hong Kong for more SL into their courses, the challenges they than a decade. Following the research agenda suggested by Giles and Eyler (1998), many institufirst focused on how SL could tudent learning and then extended

> To address the above gaps in the literature and practice, a study was conducted to investigate the faculty's experience with and ideas about integrating SL into their teaching and its impact on their teaching, research, and professional development. There were two specific objectives:

- determine the factors that affect the adoption and implementation of SL into teaching and
- investigate the impact of SL on faculty members with respect to teaching, research, service, and professional development.

To achieve the above objectives, this study Faculty's Views of Service-Learning adopted a mixed methods approach to probe faculty members' experiences and ideas on integrating SL into their teaching. The following research questions guided the study:

- What are the things that motivate or 1. demotivate faculty members to integrate SL into their courses?
- 2. What are the challenges/difficulties factheir courses?
- 3. members in relation to their (1) teaching, (2) research, (3) service, and (4) professional development?

Literature Review

The term *service-learning* was first used by Oak Ridge Associated Universities for a tributary development project in 1966 (Harkavy & Hartley, 2010). Over two decades later, it was still on the periphery of academia. By the late 1980s, however, SL began to gain currency after the National Society for Internships and Experiential Education decided to focus attention on it and Campus Compact was founded. SL was developed based on principles that have historical and philosophical foundations. Historically, American colleges and universities have been actively committed to serving the community and preparing young people to become leaders of their local communities, states, and the nation. Philosophically, the link between education and civic aims owes much to the work of John Dewey, who viewed education as a means of promoting an ethical society based on social justice. He encouraged students to become active contributing democratic Hesser (1995) studied the opinions of 48 citizens (Dewey, 1997).

Undoubtedly, SL is a powerful instructional strategy that effectively provides contextual learning and real-world application of theory (Ma & Tandon, 2014). The instructor's role is very important because students commitment needed for life-long learnare given more autonomy to make decisions ing. Banerjee and Hausafus (2007) probed and construct their own knowledge than in a group of faculty members from human traditional classroom teaching. Students sciences, asking whether SL was a valueactively develop their own knowledge added teaching strategy. On a scale from 7 and theory from the service experience. (strongly agree) to 1 (strongly disagree), the Instructors are the facilitators of students' mean score was 6.08, and the mean scores learning throughout the process. Thus, for groups of SL faculty and non-SL faculty faculty engagement in SL is crucial to its were 6.32 and 5.73, respectively. This result success.

O'Meara and Niehaus (2009) offered a discourse on the purpose and significance of SL based on interviews with 109 faculty members. The authors explored (and interviewees provided information on) four dominant discourses about SL: as a model for teaching and learning; as an expression of personal identity; as an expression of institutional context and mission; and ulty encounter when integrating SL into on its embedment in a specific community partnership. The vast majority of the respondents (97/109) stated that the purpose What are the impacts of SL on faculty of SL was to help them achieve certain disciplinary goals. This was particularly true of those who worked with knowledge and skills in their field. Nearly all of the respondents agreed that SL helps students understand the relevance and significance of theory and in–class learning. Around half (53%) of the respondents said that SL was a way to shape civic and moral dispositions by taking students from perceived lethargy to awareness of some virtues. One third of the faculty found that SL promoted exposure to diversity and revealed the real world to students by unveiling myths and stereotypes. In the discourse on personal identity, 45% of the respondents described SL as an outgrowth of personal experience. They said it further embedded students' individual identities and experiences through new experiences. Additionally, 29% of the faculty members said they viewed SL as being derived from a personal commitment to a social cause. For instance, students could establish long-term commitments and make it their personal mission to respond to certain social issues in the community. However, less than one fifth (18%) of the faculty members discussed the relationship with community partners in their discourse.

> faculty members. Most respondents recounted that SL and field study fostered learning outcomes for liberal arts learning, including the capacity to deal with a broad range of knowledge, critical thinking, cross-cultural diversity, and the tools and shows that the faculty strongly perceived SL

as helping students understand the critical A university's mission and leadership play problems in society and instilling in them a a significant role in explaining faculty ensense of responsibility and empowerment.

Conversely, there have been myths about SL among faculty members. For example, faculty often believe SL can be easily achieved by adding community service to a traditional course; SL is essentially the same as community service and cocurricular SL; SL subjects are not as rigorous as other academic subjects; the workloads of faculty members are substantially increased for SL subjects; and SL subjects are not appropriate for all disciplines (Shek & Chan, 2013). However, most of these studies were conducted in the West and little is known about the situation in Chinese society. Shek and Chan's (2013) study was one of the rare projects to investigate the faculty's views of SL at a Hong Kong university where it There have been some debates on the sighad existed for only one year. The faculty nificance of a centralized organizational members in their study generally supported structure, such as a specialized office or SL and were aware of its benefits to both institute for public service or SL, to supteachers and students. However, there were port faculty engagement. Creating a campus mixed views on implementing SL in that unit, such as an SL center, has been viewed university. Some faculty members were very as a powerful tool, necessary to a sustained active and passionate about incorporating or expanded SL effort (Antonio, Astin, & it into their teaching. Others said they had Cress, 2000). Such a center could provide reservations and viewed SL as extra work. practical assistance, raise visibility, offer Thus, more studies on faculty engagement the legitimacy conferred by a formal unit, in Hong Kong are needed.

Factors Affecting the Adoption of Service-Learning in Faculty Members' Work

A number of studies have examined the factors that motivate or hinder the implementation (Abes, Jackson, & Jones, 2002; that they create a "that's what they do over Hou & Wilder, 2015) and sustainability there' mentality" (Demb & Wade, 2012). (Cooper, 2014; Lambright & Alden, 2012) of Thus, it is essential to maintain a critical SL engagement. These studies have suggested that faculty engagement is affected by an array of variables or factors that are grouped into five dimensions based on Demb and Wade's (2012) faculty engagement model. It should be noted that these factors are not mutually exclusive but work together to influence the faculty's level of SL engagement.

Institutional dimension. The institutional has hindered faculty commitment to it and dimension includes factors like the mission of an institution, institutional policy, ulty members have allocated to it (Colbeck budget and funding, organizational structure, leadership, and an institution's tenure 2010; Hou & Wilder, 2015). Other factors and reward system. The faculty members causing SL to fail have included changing are committed to supporting the mission of and inconsistent leadership, unresponsive the university and want to connect with the administration, undermining of organizacommunity.

gagement. Institutional commitment to community engagement has a positive effect on scholarship. The SL literature recognizes that administrative support for service results in a greater likelihood that faculty will participate in SL activities (Hinck & Brandell, 2000; Ward, 1998). Bringle and Hatcher (2002) emphasized the institutional mission in their work, and O'Meara (2002) found that university-level service missions influenced the adoption of service as scholarship. Internal funding has been important to institutionalizing SL (Ward, 1998). Holland (2005) suggested that if the institutional funding process is closely related to the institutional mission of engagement, engagement will dominate.

and provide a venue for interdisciplinary partnerships across departments. However, if these centers are viewed as being fully responsible for creating and sustaining SL and other engagement activities, they may be judged as inhibiting the interests of other university members based on the notion and delicate balance between support and control (Holland, 1997).

A faculty reward system compatible and consistent with institutional expectations for service involvement increases the faculty's incentive to participate in SL. Because SL has been treated as something "extra" and time consuming, the lack of an institutional reward system and recognition of SL has greatly reduced the amount of time fac-& Michael, 2006; Fairweather, 2005; Hou, tional structures, and a decline in resources

Center for Service-Learning, 1990). Even appreciated by tenured and high-ranking cal obstacles to adopting SL, institutions' less scholarly. The higher the faculty rank, political barriers have often been more dif- the less likely the faculty member is to ficult to overcome than logistical problems become interested in participating in SL. (Giles & Eyler, 1998).

Communal dimension. The communal dimension takes into consideration the influence of academic departments, the disciplinary community, the professional community, and the public. According to Wade and Demb (2009), the socialization of faculty members helps build disciplinary norms that affect personal beliefs and motivation. These disciplinary norms define the key concepts underpinning acceptable prac- There have been mixed results on junior tices and extrinsic rewards. Thus, they de- faculty's engagement with SL. In the study termine the way faculty members carry out by Antonio, Astin, and Cress (2000), comtheir service work (Antonio et al., 2000) and mitment to service was highest among fac-SL engagement. Disciplines or departments ulty members with less status. Faculty in with a service orientation (versus status lower academic positions were more likely orientation) tend to be more committed to to support pedagogical innovations such service. Several studies (e.g., Abes, Jackson, as SL because they had nothing to lose or & Jones, 2002; Banerjee & Hausafus, 2007) gain (Wade & Demb, 2009). However, Abes, have found that encouragement from fac- Jackson, and Jones (2002) found that junior ulty members inside or outside one's own faculty and nontenured faculty were the department is an important impetus to im- least likely to start SL. Offering another plement SL. However, lack of logistical sup- perspective, Jaeger and Thornton (2006) port and excessive departmental workload connected rank to motivation by showing discourage faculty members from conduct- that faculty acted on their intrinsic, pering SL. Further, SL is accompanied by many sonal motivation to undertake public service time-consuming tasks such as liaising with once their extrinsic motivation (tenure) had community partners and developing assess- passed. The next section discusses this and ment mechanisms (Hou & Wilder, 2015).

The importance of community buy-in and *Personal dimension*. Personal characteristics involvement in developing outreach and such as gender, race/ethnicity, personal engagement agendas should not be un- values and motivation, epistemology/beliefs derestimated (Holland, 1997). Bringle and about teaching and learning, plus previous Hatcher (2002) emphasized that external experience are all grouped under the perexpectations from the community are the sonal dimension. As several studies have reprimary factors influencing engagement. ported (e.g., Abes et al., 2002; Antonio et al., Social commitment is an intrinsic force in 2000), female faculty of color have tended which faculty members connect with the to engage more in SL. This supports other community through their discipline. Their research findings in which personal values passion for community engagement and and beliefs have been a strong motivating the desire to contribute to society motivate factor driving commitment to SL (Hou & them to work on SL and connect with the Wilder, 2015; Jaeger & Thornton, 2006). In community (Hou & Wilder, 2015). Faculty Hou and Wilder's (2015) study, most of the members have found that when they help faculty respondents expressed an intrinsic their students complete projects that benefit passion for better student learning outthe community, they learn something new comes, social commitment, or a desire to about the community from their community connect with the community through their partners (Hou & Wilder, 2015).

Professional dimension. The professional dimension accounts for the influence of pro- The constructivist approach to epistemolfessional status, such as the rank, tenure, ogy suggests a stronger commitment to SL and status of a faculty member, on his or (Colbeck & Michael, 2006). An individual

that support its implementation (National her engagement with SL. SL is often underthough faculty have faced many logisti- faculty members because it is perceived as Unfortunately, senior faculty are often perceived as leaders that their junior colleagues aspire to emulate (Antonio et al., 2000). For example, nontenured faculty members face a lot of frustration when their high-ranking colleagues pressure them about academic publications. SL involvement has been perceived as damaging one's advancement opportunities (Antonio et al. 2000; Baldwin, 1990; Hou & Wilder, 2015; O'Meara, 2004a).

other personal factors in greater detail.

discipline and a passion for contributing to community improvement.

through experience (with an emphasis on vices. multiple ways of knowing and sources of knowledge, including community), rather than objectively, may be more likely to participate in service-oriented activities (Strand, Marullo, Cutforth, Stoecker, & Donohue, 2003). Previous experience with participating in SL and community engagement has been found to be related to a sense of civic agency and a commitment to future community engagement (O'Meara & Niehaus, 2009).

Student dimension. Demb and Wade's (2012) faculty engagement model does not include academic SL courses, faculty members can a student dimension. However, a considerable amount of literature has stressed the the form of direct SL, indirect SL, researchimportance of student feedback and improved learning outcomes to faculty initiating (Abes et al., 2002; Banerjee & Hausafus, 2007; Holland, 1997; Hou & Wilder, 2015) and sustaining (Cooper, 2014; Lambright & Alden, 2012) SL. Improved student learning outcomes have provided the strongest motivation for SL faculty (Abes et al., 2002; Bulot & Johnson, 2006; Hesser, 1995). Teachers have found increased course-based understanding (Abes et al., 2002), developed social bonds with service targets (Bulot & Johnson, 2006), increased personal development (Banerjee & Hausafus, 2007), and enhanced understanding of social problems. Among the improved learning outcomes, improved student understanding of course materials and personal development have been the most influential factors (Abes et al., 2002; Banerjee & Hausafus, 2007). Indeed, student improvement is one of the greatest rewards of teaching SL and motivates teachers to continue their engagement with it. It brings faculty members lasting joy and satisfaction even though these rewards are intangible (Hou & Wilder, 2015).

Notwithstanding the foregoing, faculty the multiple demands of teaching, research, members have found it difficult to control the time for classroom learning while Stocking & Cutforth, 2006). working on an SL course (Cooper, 2014). In addition, some teachers have found it more difficult to assess student learning in SL courses than in traditional ones (Hou, 2010).

How Do Faculty Members Integrate SL Into Their Work?

As mentioned, there are various factors of such community services include proinfluencing faculty members' engagement gram evaluations, community development, with SL, but how do they engage in SL in program development, program evaluareality? There are a few ways: through tions, and policy analysis.

who believes knowledge is constructed teaching, research, and professional ser-

Incorporating SL into teaching. Servicelearning is a curricular or course-based learning experience for students involving community-based experiences or service opportunities in which students apply their course knowledge. According to Campus Compact, academic SL courses are broadly classified into six categories: (1) "pure" SL, (2) discipline-based SL, (3) problem-based SL, (4) capstone courses, (5) service internships, and (6) community-based action research (Heffernan, 2001). Within these arrange service opportunities for students in based SL, or advocacy SL.

Linking SL and research. Community-based research is a common form of scholarly work that meets societal needs while fulfilling faculty members' research objectives. It is applied research that involves collaboration with community members to address community needs. According to Strand et al. (2003), community-based research is defined as a "collaborative enterprise" between professors, students, and members of the community that "validates multiple sources of knowledge and promotes the use of multiple methods of discovery and dissemination" with an eye toward "achieving social justice" (p. 8). The aim is to produce information that empowers the community and helps it solve problems. Faculty members can involve students in community-based research projects. This kind of research offers them both a research context and the opportunity to use their research skills and knowledge in projects that directly benefit their community partners and the community. It encourages engaged scholarship through which faculty can fulfil and service (Chapdelaine & Chapman, 1999;

Connecting SL and service. Faculty members can use their academic expertise to directly address or respond to real-world problems, issues, interests, or concerns. When they do, it contributes to the public welfare or common good. It also links SL with faculty members' service requirements. Examples

Impacts of SL on Faculty

Teaching. SL also influences faculty members' teaching in different ways. Driscoll, Holland, Gelmon, and Kerrigan (1996) suggested a list of variables affecting the potential impact of SL on faculty teaching. These included teaching methods, faculty– student interactions, and the philosophy of teaching and learning. Pribbenow's (2005) study provided a detailed account of SL impacts on faculty related to teaching and learning. First, the faculty had a stronger commitment to teaching and a greater understanding of students because the teacher's role in community-based teaching was strengthened. Second, the relationship between the students and faculty members deepened and became more holistic, with enhanced faculty-student interactions. The relationship changed from merely one based on intellectual acumen to a relationship between learners and individuals. Third, the faculty members became more aware of the students' learning processes and outcomes through interactions with them. With a deeper understanding of the students' learning needs, teachers tried more constructivist teaching and learning approaches. SL helped them rethink how knowledge is constructed. It enhanced and enlivened faculty members' teaching experience, "injecting new life into an otherwise over-taught course" (Bulot & Johnson, 2006, p. 641–642). The faculty members in Bulot and Johnson's study reported that they could better illustrate the connection between theories of aging and real life and show students gerontological theory in action. In other words, SL helps faculty engender course content that is more relevant to the students' life experience.

Research. Driscoll et al. (1996) found that SL promotes the enhancement of scholarship because it opens a research area in search (Fairweather, 2005). community-based learning. Eyler, Giles, Stenson, and Gray (2001) reviewed studies Research Framework on the impacts of SL and found that faculty members who implemented SL reported a stronger commitment to research and said SL provided them with new avenues for research and publication. Cooper (2014) also found that SL informed faculty scholarship. However, a research gap has remained in terms of studying the influence of SL on altering the scope of faculty research interests and the quality and quantity of research.

Service and community engagement. SL may relating to engagement in SL, faculty exenhance faculty involvement with com- periences in SL, and the impacts of SL on

munity, awareness of community (e.g., its history, strengths, and problems), and the level of volunteerism (Driscoll et al., 1996). Bulot and Johnson (2006) provided empirical support for the impact of SL on faculty service and the community. The faculty respondents who were engaged in intergenerational SL reported the following rewards: increased awareness of community issues; more involvement in the community and local aging network; opportunities to work with community agencies to develop the focus of their courses; and going out into the community to work side by side with students, community partners, and the public.

Professional and career development. Professional development has two aspects. First, it refers to faculty members' career development or advancement in terms of promotion and tenure. Second, it includes the enhancement of professional knowledge and the establishment of networks and connections to professional bodies in the faculty member's own discipline. In a recent study, Cooper (2014) found that engagement in SL impacted faculty tenure and promotion in both positive and negative ways. Positively, SL integrated teaching, research, and service and increased the institution's and the faculty member's visibility. However, it was important that faculty members should balance teaching, research, and service; include other traditional forms of scholarship; and be aware of the disciplinary constraints and support provided by colleagues, the department, and university management. SL is still not widely treated as a serious pedagogy in tenure and promotion decisions (Morton & Troppe, 1996). Senior faculty on campuswide retention, tenure, and promotion committees may not fully understand SL and its application to teaching and re-

Based on the literature review, a research framework was developed for this study, as illustrated in Figure 1. The framework incorporates the factors that may have explanatory power in faculty engagement with SL and the impact of SL on faculty's teaching, research, service, and professional development. Double arrows are used to demonstrate the complicated and interdependent relationships among the factors

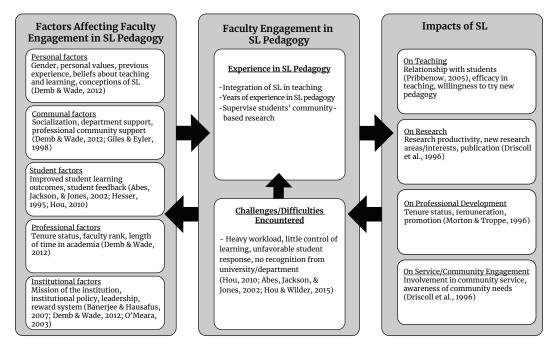


Figure 1. Research Framework

literature. Thus, to what extent does it fit faculty views and experience of SL. the situation in Hong Kong?

Methodology

proach. An online questionnaire survey ing experience were invited via e-mail and was used for the quantitative research, and reminders to respond to the online survey. individual faculty interviews were used for In total, 40 faculty members completed the the qualitative research. The use of mixed online survey for a response rate of 17.6% methods was premised on the idea that a (40/227). Among the respondents, 58% and qualitative research methods offers above. Over 90% were full-time employees. ages the collection of more comprehensive had been teaching at Lingnan for 7 years evidence and helps answer questions that or more, and 45% had taught at least one quantitative or qualitative methods alone credit-bearing course with an SL compocannot answer. In this study, quantitative nent. research provided an overall picture of the faculty experience of SL pedagogy and the Due to the small sample size, advanced related challenges. Qualitative research added details and depth to obtain a complete portrait of the processes involved and how Descriptive statistical analysis was convarious factors and challenges affected the ducted and presented. implementation of SL pedagogy.

The Quantitative Part

an extensive review of the literature on fac- designed as a guideline for the semistruculty involvement with SL, the faculty survey tured interviews with faculty to probe their

faculty. The model is drawn from Western was designed to investigate areas related to

Sampling, data collection, and data analysis. As shown in Table 1, Data were collected from October 6, 2015 to January 5, 2016. All This study adopted a mixed methods ap- academic staff with and without SL teachbetter understanding of the research prob- were male and 42% were female. Two thirds lems would result. Combining quantitative were at the rank of assistant professor or strengths that offset the weaknesses of each One third were tenured and about 60% were method being separately applied. It encour- contract-based. Half of the respondents

> statistical analyses, such as factor analysis and regression analysis, were not feasible.

The Qualitative Part

The instrument: Faculty interview protocol. As The instrument: Faculty survey on SL. Based on shown in Table 2, the interview protocol was views of and experience with SL in relation 3 for details). to six aspects: (1) faculty experience in SL pedagogy, (2) faculty conceptions of SL, (3)impact of SL on faculty, (4) factors affecting faculty engagement in SL, (5) background information, and (6) beliefs about teaching and learning.

Sampling, data collection, and data analysis. helpers (one respondent requested that the Semistructured interviews were conducted interview not be audio recorded). The tranwith 18 faculty members from 15 December scripts were checked by the researcher and 2015 to 13 April 2016. Purposive sampling read repeatedly to identify themes/patterns. was used. Targeted faculty members (T) A constant comparative method was used to were selected based on their experience identify and categorize the subthemes and teaching SL courses and the faculty they patterns from the broad themes introduced belonged to. The aim was to collect a wide to the participants (Merriam, 2009). The range of opinions and perspectives from individual responses were compared across different participants to gain a more com- each of the broad areas discussed by the prehensive understanding of the faculty's other respondents. The themes and patexperience with and views of SL. Selected terns that emerged from this analysis are individuals were invited to participate in presented herein. the interviews through e-mail invitation and follow-up by phone call (refer to Table

All individual interviews were hosted by the project investigators and supported by a note-taker. Written informed consent was sought before the interviews began. Sixteen out of 17 interviews were audio recorded and transcribed verbatim by student

Table 1. D	emographic Information of the Survey Resp	ondents	
		Count	%
Gender	Male	23	57.5%
	Female	17	42.5%
Job title/rank	Chair professor/honorary professor/emeritus professor/professor/adjunct professor	7	17.5%
	Associate professor/adjunct associate professor	11	27.5%
	Assistant professor/adjunct assistant professor	9	22.5%
	Senior lecturer/lecturer	5	12.5%
	Senior language instructor/language instructor	5	12.5%
	Other	3	7.5%
Employee status	Full-time	37	92.5%
	Part-time	2	5.0%
	Other	1	2.5%
Employment status	Tenured	13	32.5%
	Contract-based but applying for tenure	3	7.5%
	Contract-based	23	57.5%
	Other	1	2.5%
Faculty	Faculty of Arts	21	52.5%
	Faculty of Social Sciences	9	22.5%
	Faculty of Business	8	20.0%
	Other	2	5.0%

Table 2. Faculty Survey's Investigation Areas and Targeted Respondents				
	Targeted respondents			
Investigation areas	SL faculty	Non–SL faculty		
Experience with teaching and community engagement	\checkmark	\checkmark		
Faculty views of SL	\checkmark			
Impact of SL on faculty				
Challenges/barriers	\checkmark			
Reasons for not using SL				
Resources and support for SL pedagogy		\checkmark		

Table 3. Number of Faculty Members Who Participated in the Interviews						
	Experience of SL pedagogy (number of times that faculty mem- bers integrated service-learning (SL) into their courses)					
	Experienced (more than 3 times)	Little SL experience (1–3 times)	No SL experience (None)	Total		
Faculty of Arts	2/5	2/3	1/4	5/12		
Faculty of Business	2/4	2/3	2/3	6/10		
Faculty of Social Sciences	2/3	2/3	1/3	5/9		
Common Core and General Education Unit	0/0	0/0	2/2	2/2		
Total	6/12	6/9	6/12	18/33		

Results and Findings

Faculty Views of and Experience With SL

Overall, the faculty participants understood quite well the philosophy of SL. Results from the faculty survey indicated that more than two thirds of the respondents "agreed" or "strongly agreed" with the following statements:

- I can explain the concept of SL to my colleagues (*M* = 3.85; *SD* = 0.95; *N* = 40, where 1 = Strongly disagree; 3 = Neutral; 5 = Strongly agree);
- I understand the role that reflection has in the practice of SL (*M* = 3.85; *SD* = 0.83; *N* = 40); and
- I am able to explain the ways in which SL is distinct from other

forms of community engagement (*M* = 3.73; *SD* = 0.91; *N* = 40).

Consistent with the findings from the individual interviews, the faculty participants highlighted essential elements, such as connecting to the course objectives; reflection; partnership with the community; and the commitments of teachers, partners, and students. All of the interview respondents acknowledged the value of SL for enhancing students' learning and bringing positive impact to the community. Similarly, most survey respondents (more than 80%) indicated that SL enhanced students' social, civic, and personal development.

Barriers/challenges. The interview respondents who had integrated SL into their courses said that they encountered the following major difficulties/challenges: (1) community partners; (2) course design (2) increase in students' civic and moral and schedule, including connecting SL into development, and (3) providing useful and course objectives; (3) students' unfavor- meaningful service in the community. These able behaviors and attitudes; and (4) time findings were in line with the interview redemands and heavy workload in terms of spondents' statements, that student factors, logistics, supervising students, and liaising including evidence of enhanced student with partners. The survey results were con- learning outcomes and student support, sistent with the respondents' remarks on were the most significant factors motivatthe time constraints and the lack of support ing their engagement in SL, as illustrated and recognition from administrative lead- by the excerpt below: ers. Faculty promotion and tenure policies were also among the top barriers/challenges SL faculty encountered.

SL is a time-intensive process. Turning a course into an SL course is not simply a matter of adding an additional element to the course. Faculty members are required to spend considerable time and substantial effort planning and designing the course. For example, they must connect service The interview respondents also mentioned with the learning objectives, schedule the their personal passion to serve the commuservice period, match teaching sequences nity through SL, as seen in the following with service to ensure students can learn statement: the content before their service, and design appropriate assessments, rubrics, and guidelines for students. One faculty member's comments are set forth below:

The difficulty was that I had to match the teaching schedule and service schedule seamlessly. . . . I tended to do it in this order. First, teach students some topics. Then, students visit/serve the agency. Next, we discuss in the classroom. By doing so, students would consolidate what they learned through intellectual/experimental learning step by step. (T05)

The above excerpt vividly reflects the challenges of seamlessly matching the teach- ing service in a course, and lack of time ing schedule with service. In this case, and knowledge were the major roadblocks the course instructor needed to rearrange to faculty members considering SL. In the teaching sequence and/or even cut down the faculty survey, the top three reasons teaching content to leave space for SL-re- the non-SL faculty did not use SL in their lated instruction such as consultation and teaching were reflection.

Factors That Motivate or Demotivate Faculty Engagement in SL

Motivators of SL engagement. In the faculty survey, 83% of the SL faculty members indicated that they were "likely" or "very likely" to continue to incorporate SL into their teaching in the future. The top three 3. most important motivating factors were (1)

Finding suitable service opportunities and increase in students' academic learning,

First, I will consider how much the SL will impact students. If it was only my wishful thinking and students did not learn or gain from it, that would be meaningless. Hence, my first and foremost consideration is whether students learn from doing the SL. (T04)

If all you are doing is sitting behind the screen, writing words that will be read by just other academics, life is somewhat meaningless, right? So, this way, you really see the positive implication of what you are doing. You can use this leadership theory and you make a positive difference to the community, right? So it's kind of a society I want to be involved in and contribute more to and it's great. (To8)

Deterrents to SL engagement. The results seemed to suggest that limited access to community partners, concerns over logistics, coordination issues related to arrang-

- I anticipate having (or have had) dif-1. ficulty establishing community partners (M = 3.71; SD = 0.99; N = 17);
- I anticipate having logistical problems 2. coordinating the community service aspect of the course (M = 3.56; SD =0.98; N = 18); and
- I have not been given and/or do not anticipate being given release time

to develop a service-learning course (M = 3.44; SD = 0.98; N = 18).

The interview respondents echoed the above, particularly the lack of support and recognition from the university and department. Two faculty members explained this:

No one in the department supports me. Everyone says, "Focus on your research. Why do you spend so much time on it"? Everyone is like this, honestly speaking. (T09)

At the moment, it seems that research counts more for your renewal of contract because you have to . . . In the business faculty, you have to reach the . . . you have to get a certain number of publications, right? Certain level of publications. Whereas they are not equivalent requirements to teaching, so it's quite clear to most people that they think . . . they think research is more important. (T13)

The above excerpts reflect the reality that SL was not counted for promotion, tenure, 1. or contract renewal decisions, even though the university was explicit in its long-established mission and motto of "Education for Service." This misalignment of the ². university's espoused mission and its actions regarding SL generated frustration and distrust among faculty members. The respondents said they felt threatened if they did not concentrate their time and effort on research to survive in academia. This was underscored by a faculty member who said, "Even if you like teaching very much, you 4. cannot spend too much time on it; otherwise, you will not survive" (T02).

Impact of SL on Faculty

Regarding SL's impact on faculty, the interview respondents most frequently reported on the benefits SL had brought to their teaching. For example, they said it increased their teaching repertoires and satisfaction, enriched their teaching content, and enhanced faculty-student relationships. Two teachers recounted their experiences:

It [SL] helps a lot in terms of your teaching methods. You will create more new directions for your students, making your lesson more alive. In return, you can enhance your course. (T07) Sometimes I've gone to Central seeing them [students] there on a Sunday afternoon. . . . I saw this student at this outreach thing that they had at Causeway Bay and they were all there doing stuff for the Indonesian community. That was really nice, and they saw me there. It was kind of a good teacher-student thing. (T01)

Similarly, in the faculty survey, 80% of the respondents "agreed" or "strongly agreed" that "I was able to develop a good relationship with the students in my Service-Learning course(s)" (M = 4.11; SD = 0.83; N = 18).

The impact of SL on faculty service/community engagement was emphasized more by the survey respondents than by the interview respondents. Among the top five SL outcomes (i.e., items with highest mean ratings), four items with over 80% "agree" or "strongly agree" were related to SL impacts on faculty service/community engagement, as listed below:

- I learned something new about the community from my community partners (M = 4.28; SD = 0.89; N = 18);
- The service my students completed was beneficial to the community (*M* = 4.22; *SD* = 0.55; *N* = 18);
- 3. I value working with community partners to structure and deliver the SL experience for students (M = 4.11; SD = 0.68; N = 18); and
- SL helped me to become more aware of the needs of my community (*M* = 4.06; *SD* = 0.94; *N* = 18).

Apparently, as a result of their involvement with community partners, SL enhanced faculty members' knowledge of community partners and awareness of community needs.

The faculty survey and interviews had consistent findings on the limited or nonexistent impact of SL on faculty research and professional and career development. Only a few of the interview respondents said SL directed them to a new research area or publications. None of the interview respondents said SL engagement was beneficial to their career progression with respect to promotion, tenure, and contract renewal at the university. This was supported by the and a call for action.

Discussion

Motivators and Deterrents to SL

The faculty members generally held positive views of SL and considered it to be a that SL contributed to faculty members' valuable pedagogy that benefited both the enhanced teaching practices, including students and the community. Our findings increasing teaching repertoires, enriching showed that there were a number of positive teaching content, and enhancing facultyand negative factors relevant to institution- student relationships. However, SL has had al, communal, and professional status and a very limited impact on faculty research personal and student dimensions that influenced faculty decisions to start or sustain SL career advancement. SL has not helped engagement. Among these factors, the most faculty much in terms of promotions and significant motivators were the students' tenure. Some SL faculty members have even improved learning in their academic studies viewed it as an obstacle to research and and personal development, and the personal promotion. Several reasons may account for passion of faculty to enhance their teach- these difficulties. First, as at other universiing and engage with the community. This ties, Lingnan faculty members experience was consistent with the findings of previous studies (Abes et al., 2002; Bulot & Johnson, 2006; Hesser, 1995). Lingnan University faculty members must focus on research already had a centralized organizational and publications to "survive." In practice, structure (Office of Service-Learning) that the university emphasizes and values refacilitated and encouraged faculty engage- search but discounts the value of research ment in SL. There is evidence in this study for teaching and learning. Faculty memthat faculty members found support from bers therefore would rather concentrate on the OSL to be essential and vital to their research in their own discipline than on successful adoption of SL in their teaching.

The results suggest that there were discrepancies between university SL policy and practices, specifically misalignment of the university mission and its actions regarding SL. Lingnan's long-standing motto and stated mission is "Education for Service." Faculty engagement in SL has been viewed as a way to actualize the university's motto and mission. However, the faculty members did not receive proper recognition and rewards through promotion, tenure, potential connection between SL and reor contract renewal, or acknowledgment and awards from the department or the SL teaching with research. For these facuniversity. Some were even penalized due ulty members, adopting SL may not be too to the lack of time they spent on research difficult once they recognize the link and and publications. The faculty members were acquire the relevant information and ideas frustrated by the inconsistent institutional needed to integrate SL with research. actions and polices, and distrust was pervasive on campus. As Holland (1997) stressed, Community-based research may be a possithis institutional confusion and anxiety over ble way to connect SL and faculty research. the role of service inhibited further devel- Community-based research is an emerg-

survey results, in which only 28% of the opment of SL courses and activities. We SL faculty indicated that SL had a posi- are in accord with Holland and the faculty tive impact on their research publications respondents in this study and contend that or presentations, and only 17% of the SL it is critical for the university to send a clear faculty "agreed" or "strongly agreed" that message. It should acknowledge the link SL was tied to the advancement of their re- between SL and its motto and mission and search. These findings pose a great concern establish a faculty reward system compatible and consistent with the institutional expectations for SL involvement.

Limited Impact of SL on Research and **Professional Development**

There is strong evidence in this study and professional development, especially pressure to publish due to the high expectations for research productivity. Hence, teaching and learning. Second, some faculty members or teaching staff may be assigned to teach courses that do not match their research interests or expertise. In such cases, even in courses with an SL component, SL is disconnected from faculty research and expertise. It is difficult for faculty members to turn SL into community-based research when there is a disconnect between their teaching and research. Third, those whose teaching is integrated with their research areas and expertise may be unaware of the search and the possible ways to combine

Cutforth, 2006). Faculty members can adopt readily available funding or grants for SL, in their courses and involve students and promotion and tenure decisions. community members in the research process to help address important community issues and empower the community. This not only fulfils the faculty's need to teach, conduct research, and perform service, it encourages both the faculty and students to develop a lifelong habit of civic engageof engaged scholarship (Boyer, 1996) and the actual experiences and challenges enan engaged campus (Butin & Seider, 2012).

Implications of the Model

model that explored factors impacting fac- different career stages (Glass, Doberneck, ulty participation in SL and the relation- & Schweitzer, 2011). These faculty develship of SL to faculty members' teaching, opment activities could be offered by difto identify a research agenda related to SL centers, and offices of knowledge transfer. engagement and creates a context within which institutional leaders can consider policies and programs that enhance faculty involvement in SL (Wade & Demb, 2009).

Implications for research. First, the model supports a holistic approach to the dynamics of faculty engagement in SL. It considers respondents participated in the study volthe factors, faculty members' SL experience untarily without any financial incentives. and challenges, and SL impacts on faculty. Second, it highlights the interconnected selection bias that can raise concerns about and interdependent relationships between whether the respondents had more posiand among the factors in different dimensions. This serves as a starting point to population of the university. Indeed, the refurther explore the dynamics that lead to faculty reactions. As with any model, the faculty in the study (e.g., inviting non-SL completeness and accuracy of the elements faculty members to interview). Another and their interactions may be challenged limitation was the small number of responby researchers and practitioners. Thus, it dents (n = 40) from the same institution, forms a systematic basis for discussion and although reminders were sent through mass further research. The fruitfulness of future e-mails and personal e-mails, in addition research requires more precise definitions to face-to-face interactions with researchand measurement parameters for "engaged scholarly work."

Implications for practice. The model can of the survey, when faculty were busy with become a new basis for institutional conver- teaching and filling in their appraisal forms sations about the motivators driving faculty at year end. In addition, as reported in the engagement in SL. Institutional leaders can literature, the type of institution could have use the model to explore the institutional affected the level of faculty engagement factors that can bring about change, such with SL. At institutions with a heavier focus as organizational structure, funding, and on research, or a different setting, faculty

ing form of SL that has shown promising university policies and procedures. Such an outcomes for meeting societal needs and exploration can be performed by assessing the multiple demands placed on faculty changes in faculty participation with respect to teach, publish, and engage in service to (1) more access to a campus office where (Chapdelaine & Chapman, 1999; Stocking & faculty can receive SL support, (2) more community-based research as a form of SL and (3) more value being assigned to SL in

The model can also be used as the basis for designing and planning faculty development programs. The model demonstrates that faculty engagement in SL and the impacts of SL are affected by the interplay between personal, communal, institutional, profesment. It also contributes to the development sional, and student factors, in addition to countered. Faculty development programs should adopt a multitrack approach to building faculty capacity for SL and tailor their activities to reach faculty members This study presented a comprehensive who are involved in different types of SL at research, service, and professional devel- ferent units such as centers for teaching opment. As a synthesis, this model helps and learning, service and civic engagement

Limitations

The main limitation of this study was the self-selected sample that participated in both the survey and the interviews. These This form of sampling can result in selftive views about SL than the overall faculty searchers took measures to include non-SL ers and SL coordinators from the Office of Service-Learning. Arguably the low response rate could be attributed to the timing reader is reminded that the findings from model to more fully account for the factors this study may not be generalizable because that influence faculty engagement in SL. the data were collected at only one university in Hong Kong. Future research that relies on similar instruments and methods at other local and overseas universities may vield more fruitful understandings of the institutional factors that affect faculty SL engagement.

Conclusion

value. Practically, it enhances our under- are interested in testing the faculty model standing of how to facilitate faculty adop- based on their local contexts. With limited tion of SL. Theoretically, it helps to build research on SL pedagogy from the faculty's a more comprehensive model of faculty perspective, we should encourage more uniengagement with SL pedagogy. The results versities to take part in similar research. showed that enhanced student learning Research outcomes can inform future pracoutcomes were among the major consider- tice and facilitate further development of ations of faculty members' decisions to use SL practice and theory. We are optimistic SL. However, this was not included in Demb that if such research can be conducted in and Wade's (2012) faculty engagement the region, it will help ease the barriers and model. Indeed, our findings echo those of challenges faculty are facing and support Abes et al. (2002), in which improved stu- the development of both engaged scholardent learning outcomes provided the stron- ship and engaged campuses. gest motivation for SL faculty. Arguably, a

might make different choices. Thus, the student dimension should be added to the

To conclude, from this study we learned that faculty members, at least those in our sample, are willing to adopt SL and are already involved with it. However, they are still seeking legitimacy and support from within the university and their departments to pursue this endeavor. It is vital to promote engagement of faculty members in SL because they are the key components in the ecological system of SL. Some universities This study has both practical and theoretical in Taiwan, the Philippines, and Singapore

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Dilemmas in Service-Learning: (Missed) **Opportunities for Transformative Partnership**

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Abstract

Although there have been growing concerns on how service-learning can accentuate the power differences between the server and the served, service-learning can foster transformative partnership by recognizing the contributions each can offer for a better society. Using participant observation and discourse analysis, this case study examines the perceptions of third-year undergraduate students of a health-related degree in a Philippine-based Jesuit university about their school–community collaboration in a primary healthcare setting. Despite apprehensions at the start of service-learning, students saw themselves confronted with the challenge to overcome personal barriers from authentically encountering the urban poor, whom they served in the community. However, establishing transformative partnership in service-learning was not without its share of dilemmas. Such findings can contribute to discourses on service-learning, informing practitioners how to support social transformation in universitycommunity collaboration.

Keywords: service-learning, experiential learning, transformative learning, critical reflection, social transformation

fession as well as to promote the practice of education. Many in academe have regarded community service. Defined by Kaye (2004) service-learning as a strategy to take part in as "guided or classroom learning . . . deep- community engagement and fulfill their role ened through service to others in a process in society. In fact, this method of teaching, that provides structured time for reflection for some institutions of higher education, on the service experience and demonstration of the skills and knowledge acquired" (p. 7), service-learning has gained the interest of a number of faculty and academic Training Program, which mandates uninstitutions due to its idealistic goals and practical uses (Harkavy & Hartley, 2010). indigent communities in the country While "making unique contributions to addressing community, national, and global needs," service-learning not only cultivates In contrast to volunteering and other forms critical thinking among students but "the of experiential learning, reciprocity is escombination of community service, aca- sential in the way service-learning is carried demic knowledge, and reflection can [also] out. Herein both the university and commuhelp students develop an understanding of nity mutually benefit from the community the root causes of social problems" (Jacoby, service rendered (Jacoby, 2003). That is, 2003, pp. 1-2).

nstitutions of higher education in In developing countries, such as the North America and some parts of the Philippines, where a fifth of its 110 million world have increasingly used service- population live in poverty, service-learnlearning as a method of teaching to ing has gained momentum as a method prepare students for their chosen pro- of teaching among institutions of higher has become integral to the implementation of Republic Act No. 9163, otherwise known as the Act Establishing National Service dergraduate students to render service to (Anorico, 2019; Custodio et al., 2016).

the students are able to better appreciate

room learning to real-world situations, paternalistic relationship and dependency untapped assets utilized (Bringle & Hatcher, to a transformative partnership. 1995; Lieberman, 2014). Ideally, the voice of the community is heard throughout the planning and implementation of servicelearning. This would signify the university's intent to form and build a reciprocal partnership with the community.

there is "a deeper and sustained commitment" between the community and university, as represented by students and faculty als in a given community. Using Mezirow's (Enos & Morton, 2003, p. 24). Growth is (1991) transformation theory as a lens to nurtured and new relationships, identities, understand students' perceptions of their and values may develop because of shared experiences, we specifically looked into the goals and openness to collaborative efforts (Clayton, Bringle, Senor, Huq, & Morrison, habits of mind and points of view) are chal-2010; Enos & Morton, 2003). From this lenged during service-learning. We hypothpartnership, not only are individuals but also the wider society is transformed (Enos & Morton, 2003).

Unfortunately, not all service-learning can lead to transformative partnership. Enos and Morton (2003) suggest that most service-learning initiatives are transactional, whereby there are mutually rewarding exchanges between the university and community. Such service-learning takes place within existing structures and is rather task-oriented. Commitments among the students and the community are usually limited and, as a result, not much has changed. Additionally, service-learning, as Clayton et al. (2010) point out, can likewise demonstrate "one-sided relationships that fall short of transactional and in some instances are even exploitative" (p. 8). Such relationships are characterized by the incurring of more costs than benefits either for the university or the community Transformation theory can provide a because decisions are made in isolation and model to understand the process by which without consideration of the other. Change adults learn in different cultural settings may happen for the worse and a sense of (Cranton 1994; Mezirow, 1991, 1994, 1996). dissatisfaction may arise.

For this reason, there have been growing concerns on how service-learning can accentuate power differences between the server and the served. The university, in many instances, is seen to occupy the realm of solution, whereas the community is relegated to the domain of problem (Yappa, 1999). Instead of focusing on the strengths of a community, the university is looked to Transformative learning, as defined by not only to fill in the deficits of the com- Mezirow (2009), is a "learning that transmunity it serves but also to fix what is forms problematic frames of reference to

their chosen discipline as they apply class- perceived as broken (Lieberman, 2014). A and the community gains in return for ensue and these, in turn, disempower the having their identified needs met and their people in the community from contributing

Most research on service-learning has highlighted best practices in community engagement, often glossing over the challenges and issues encountered in such university-community partnerships. Thus, this study aims to fill this gap by examin-Transformative partnership happens when ing how undergraduate students, as part of the university, are hindered from forming a transformative partnership with individuprocess by which their perspectives (i.e., esize that transformative learning, which is essential for transformative partnership in service-learning, can occur if critical reflection is facilitated among the students and if they are guided properly by their teachers as they confront the unfamiliar. However, dilemmas in service-learning can arise if there is resistance to transformative learning, which can come from participants' being unprepared to undergo changes in their perspectives. As we point out dilemmas encountered in service-learning and examine missed opportunities for transformative partnership, this study aims to draw up recommendations that will enable service-learning to be true to its nature of reciprocity and to live up to its potential for personal and social transformation.

Literature Review

Influenced by the works of Habermas, Siegal, Freire, and Gould, Mezirow's (2009) transformation theory can make sense of adult learning, particularly in "cultures experiencing rapid social change in which old traditional authority structures have been weakened, and in which individuals must be prepared to make many diverse decisions on their own" (p. 222).

make them more inclusive, discriminating, transformations in points of view" (p. 7). reflective, open, and emotionally able to However, transforming a habit of mind in change" (p. 22). It involves a "process of an instant is more difficult to achieve and effecting change in a frame of reference . therefore less common to occur (Mezirow, . . [or] structures of assumptions through 1997). It may take severe dissonance or diswhich we understand our experiences" crepancy from one's experience and existing (Mezirow, 1997, p. 5). These frames of ref- habit of mind for transformative learning to erence "selectively [shape] and [delimit] occur (Robinson & Levac, 2018). perception, cognition, and feelings by predisposing our intentions, expectations, and purposes" (Mezirow, 1996, p. 163). They essentially filter the way we understand what we experience, influencing "the way we define, understand, and act upon our experience" (Mezirow, 1991, p. 61). They consist of habits of mind, which are "habitual ways of thinking, feeling, and acting influenced by [cultural, social, educational, economic, political, or psychological] assumptions" and points of view, which are specific articulations of our habits of mind in the form of concepts, beliefs, values, judgments, feelings, and attitudes (Mezirow, 1997, p. 6). Habits of mind "refer to the structure of assumptions within which one's past experience assimilates and transforms new experience" (Mezirow, 1991, p. 42), whereas points of view constitute and represent one's habits of mind (Mezirow, 1991, 1997). In contrast to points of view, habits of mind are more durable and less accessible to feedback and awareness-raising (Mezirow, 1997).

Adult learning occurs when existing points of view are elaborated, new points of view are established, points of view are changed, or habits of mind are changed (Mezirow, 1990, 1991, 1996, 1997). Rote learning or learning within the structure of acquired frames of reference and preexisting categories of meaning can occur when existing points of view are elaborated or further differentiated. Rote learning also somewhat takes place when new points of view are established because this form of learning does not involve change of perspectives and such learning is still consistent and compatible with prevailing frames of reference. However, emancipatory learning can happen when points of view are changed as a result of reflecting upon the premise of deeply held assumptions. Transformative learning, on the other hand, can come about when premise reflection triggers a change in habits of mind (Cranton, 1994). These transformations in frames of reference, as In service-learning, a disorienting dilemma, Mezirow (1997) points out, can take place as Naudé (2015) observed in her study of through "transformation of a habit of mind, five cohorts of postgraduate psychology or they may result from an accretion of students assigned to a rural community

Frames of reference can be transformed, according to Mezirow (1997), "through critical reflection on the assumptions upon which our interpretations, beliefs, and habits of mind or points of view are based" (p. 7). Critical reflection is usually prompted when there are discrepancies between one's beliefs and experiences (Mezirow, 1994), because we tend to "make a tacit judgment to move toward a way of thinking or behaving that we deem more appropriate to our new situation" (Mezirow, 1998, p. 191). This involves looking back at one's own experience, taking into consideration different points of view, and imagining alternative perspectives (Mezirow, 1998) so as to challenge deeply held assumptions of one's prior learning (Mezirow, 1990) and to change one's structures of meaning (Mezirow, 1991). It entails validity testing through making taken-for-granted situations problematic (Mezirow, 1991), such as making preconceived notions explicit and questioning the sources and validity of these assumptions previously held by individuals or by groups (Cranton, 1994; Naudé, 2015).

Perspective transformation starts with a disorienting dilemma, then proceeds to self-examination, evaluation of previously held assumptions, recognition that others likewise undergo similar discontent, exploration of options, planning a course of action, acquisition of competencies to carry out one's plan of action, provisional trying of new roles, (re)negotiation of relationships, building of self-confidence in new roles and relationships, and reintegration of the new outlook into one's life (Mezirow, 1994, 2009). However, this process leading to transformative learning may not necessarily be sequential or stepwise. Backsliding or getting stalled in one phase may also happen (Mezirow, 1978a). Nevertheless, changes in attitude and behavior often indicate that transformative learning has occurred (Mezirow, 2000).

in South Africa, involves boundary cross- as well as negotiating one's purpose, values, ing, such as when the students faced a new and meanings (Mezirow, 1996) through environment, a new community or culture, critical evaluation of psychological or culnew linguistic requirements, or new roles tural assumptions that constitute an indiand responsibilities, and it entails going vidual's beliefs and experiences (Mezirow, through dissonance; for the students, this 1998). Personal transformation can turn meant their "existing worldviews and be- into social transformation if critical reflecliefs [were] inadequate to explain puzzling tion includes one's own and other's beliefs, or surprising experiences" (p. 86). Most values, judgments, and feelings; collective of these students were unprepared for frames of reference are recognized; and best transformative learning during the initial judgments are collaboratively arrived at for stage of service-learning, and a significant contested assumptions (Mezirow, 1997). number of them seemed self-absorbed as This is also likely to happen when perspecthey showed little interest in understand- tives of others are taken (Mezirow, 1978b), ing the situation of those in the community. when personal assumptions and the social However, in the end, the majority of them structures that support these are examined were able to change their habits of mind and (McNaughton, 2016), and when critical form relationships with those from the rural reflection is more oriented toward ideocommunity they were assigned to, realizing, logical critique, where individuals, as Taylor through the process of reflective sharing, (2009) suggests, "develop an awareness of that they were the same in many aspects.

In Kiely's (2005) longitudinal study of undergraduate students deployed to Nicaragua to examine health and social For transformative partnership to come problems in resource-poor communities, about in service-learning, we argue that encounters of boundary crossing also pre- transformative learning has to be fostered ceded experiences of dissonance during during the teaching-learning process. service-learning. However, as shown by That is, students have to be supported these students from New York, experiences in examining the premise of their deeply of dissonance or disorienting dilemmas held assumptions so that points of view tend to vary. Dissonance from adapting to and, most importantly, habits of mind, a new environment and unfamiliar condi- that hinder them from relating authentitions seemed to fade immediately, whereas cally with individuals in the community, the disorienting dilemma from witnessing can be transformed. As seen in the study severe forms of hunger seemed to persist of Adarlo (2017) on students assigned to and evoke powerful emotions, which led birthing clinics for their service-learning, most of them to reexamine and change their this involves teachers providing prompts previously held assumptions about poverty, among others.

seemed also to vary based on where the observed by Kiely (2004), as well as by service-learning took place and what sort Bamber and Hankin (2011) in their study of service was rendered to the commu- about the kinds of transformative learning nity. Furthermore, questioning of deeply in service-learning, can ensue in the politiheld assumptions and changes in habits of cal (expanded sense of social responsibility), mind were most likely to occur if a personal moral (mutual respect, care, and solidarity relationship was established with those in in relationships), intellectual (questionthe community. These findings were re- ing of origin and nature of assumptions), ported in the study of Shor, Cattaneo, and cultural (questioning of Western thinking), Calton (2017) on the essays of 41 students personal (rethinking of self-concept and participating in service-learning either at lifestyle), and spiritual (deeper understanda homeless shelter or a tutoring facility as ing of self, purpose, society, and greater part of the course "Community Engagement good) domains in order to disrupt students' and Social Change."

As shown above, personal transformation can arise if there is self-critique of taken- However, resistance to transformative for-granted assumptions (Taylor, 2009). learning can take place while students This involves posing and solving problems are participating in service-learning. As

power and greater agency (political consciousness) to transform society and their own reality" (p. 5).

for journal writing, instructional guidance through mentoring, and opportunities for dialogue through reflective sharing, among Experiencing of disorienting dilemmas others. In doing so, transformation, as taken-for-granted understandings of self and society.

Gasiorski (2005), this stems from a "per- ignated observation with no comparison ceived threat to the [students'] position of groups or multiple observations within privilege and power and the subsequent subjects" (p. 121). A case study can sugneed to maintain these positions" (p. 9). gest cause-and-effect relationships through When these students come across discrep- observational data despite having no control ancies and inconsistencies between their group or pretest evaluation (Creswell, 2009; experience and existing frames of reference, Edmonds & Kennedy, 2017). However, this they are usually ill-prepared to undergo the research design cannot entirely rule out process of examining and changing their plausible alternative explanations since the previously held assumptions (Jones, 2002). study participants were self-selected and Most often, they are unwilling to go out of nonrandomly assigned to an educational their comfort zone as they encounter the intervention (Edmonds & Kennedy, 2017). unfamiliar (Jakubowski & McIntosh, 2018). However, these claims need to be supported by further studies since little literature exists on why students resist undergoing perspective transformation during servicelearning.

Methodology

To examine the barriers to perspective transformation among undergraduate students taking part in a service-learning initiative within a primary healthcare setting, a qualitative research methodology was applied in this study because it can be appropriate for exploring a group or population in which variables cannot be easily measured (Creswell, 2013). It can be suitable as well to inquire about "life-worlds" where ized city with approximately half a million "researchers focus on naturally emerging languages and the meanings individuals assign to experience," such as those in service-learning (Lune & Berg, 2017, p. 20).

Research Design

Specifically, a case study was employed to environmental health and sanitation, oral understand a social phenomenon within health, disaster management, and health important circumstances and to "look for the detail of interaction with its context" (Stake, 1995, p. xi). This research design allowed us, as described by Yin (2009), to look After obtaining ethical approval and into "a contemporary phenomenon in depth institutional clearance to carry out this and within its real-life context, especially research, study participants were recruited when the boundaries between the phenom- and approached face-to-face from the 78 enon and context are not clearly evident" third-year undergraduate students who (p. 18). Typically, a case study starts with were taking service-learning in a primary identifying a specific case, which may be an healthcare setting in Marikina City from individual, a group, an organization, a com- January to May 2016 as part of their curmunity, a partnership, a decision process, riculum for a health-related degree from or a project (Creswell, 2013). As service- the above-mentioned university. They learning can be considered an educational were purposively sampled for this study intervention that student participants were because, as Tong, Sainsbury, and Craig exposed to, this case study design some- (2007) remark, they "share particular charwhat resembles a preexperimental research acteristics and have the potential to provide inquiry with one-group-only posttest relevant and diverse data pertinent to the design wherein, as Edmonds and Kennedy research question" (p. 352). All students

observed by Jones, Gilbride–Brown, and (2017) illustrate, "there is only one des–

Setting and Study Participants

This particular case study was set in a Philippine-based Jesuit university and its partner community in Marikina City. The university aims to contribute to nationbuilding through teaching, research, and service to the community. It seeks to form its students not only as experts in their chosen profession but also as lifelong learners who are critically rooted in their culture, proactive in the global context, imbued with the scientific spirit, and strongly oriented to faith and justice. Its partner community, Marikina City, is one of the cities comprising the capital of the Philippines. It is a first class, highly urbanpopulation of which 12% live in poverty. It has 17 healthcare centers that cater to the healthcare needs of the indigent population for free (Marikina City, n.d.). Its programs for a healthy population include maternal and child healthcare, communicable disease control, noncommunicable disease control, education and promotion (Marikina City Health Office, n.d.).

this research, and no one eventually with- descriptive notes and reflective notes, imwas excluded from the study.

The service-learning initiative mentioned above formed part of the discipline-based formation program that the university seeks to provide its students, making concepts discussed in classes such as "The Health Professional as Scientist or Investigator" and "Philosophy of the Human Person" more meaningful and relevant because of its practical approach. Specifically, weekly classroom sessions for "The Health To systematically analyze the observational Professional as Scientist or Investigator" were geared toward rational inquiry into gether so that, as Lune and Berg (2017) exevents, phenomena, and interventions in plain, any themes or hypotheses developed the health sector, whereas "Philosophy of during data gathering could be reinforced the Human Person" provided opportunities and themes or hypotheses previously unfor students to reflect on the various aspects realized could be generated. This process of being human. By assigning 78 students to of open coding was then followed by axial render community service in 14 healthcare coding, wherein data coded were organized centers in Marikina City during the second through finding patterns and developing semester of school year 2015–2016, the category systems that best described the service-learning, according to the faculty information gathered (Creswell, 2013; Lune responsible, not only was meant to prepare & Berg, 2017; Patton, 2002). students for the role of healthcare professionals in public health but also aimed to give students the opportunities to contribute to the delivery of primary healthcare to the urban poor. Their once-a-week community service involved retrieving medical records, taking the vital signs of patients from their designated healthcare centers, and getting medical histories, among other tasks.

Data Gathering and Analysis

To get familiar with this service-learning created and shared through language. To situated in a primary healthcare setting, examine the barriers to a transformative the three researchers carried out participant partnership with a given community and observation in several instances as student to look into the process by which students' participants attended weekly classes and perspectives (i.e., habits of mind and points went to the healthcare centers for commu- of view) were challenged during servicenity service. Social events (i.e., interactions, learning, the submitted reflection papers discussions, and group presentation) that underwent discourse analysis, which can were directly observed were recorded as be useful in studying the use of language field notes (Yin, 2016) to provide context to convey situated meanings (Gee, 2011a, to this study, because any aspect of the 2011b). We, as multiple coders, employed context can affect the meanings ascribed to discourse analysis in this study by writone's experience (Gee, 2011a). To make the ing memos (i.e., key concepts and ideas process of observation uniform among the that occurred to the researchers) along the three researchers, an observation protocol margins of the submitted reflection papers, was used wherein descriptions of the events organizing the gathered data into text units were recorded as descriptive notes, whereas using a tabulated form, and manually deinsights, learnings, and hunches about the scribing, classifying, and interpreting these events that transpired were logged as re- data into codes. In some instances, the flective notes. To limit omission of details codes were prefigured from related literafrom the participant observations, we filled ture (i.e., a priori coding). But there were

gave their informed consent to be part of out the field notes, which contained the drew their participation. Hence, no student mediately after the observation. We also conferred with one another to bring together our field notes and, in effect, we were able to increase the use of findings and gather a comprehensive understanding of the events that occurred (Creswell, 2013; Patton, 2002). To limit misinformation, details about what had been observed were verbally and informally provided to the student participants through conversational interviews (Patton, 2002).

data, we initially read the field notes to-

To support the data gathered from participant observation, the reflection papers submitted by student participants during their service-learning were collected after they were graded so that more insights could be gathered on how these students perceived their service-learning experience. We particularly reviewed the volumes of submitted reflection papers because, as Mezirow (1991) points out, words may represent one's frames of reference, and meanings can be

from the exact words of the student partici- holds a doctor of medicine degree. Both the pants so as to better reflect the views of the first and second researchers were teachers study population (i.e., in vivo coding). The of the student participants for their class process of coding and recoding was carried "The Health Professional as Scientist or out by the three researchers until the texts Investigator," whereas the third researcher were coded the same way (i.e., intercoder was these students' program director. We agreement) and until data saturation or no demonstrated an emic perspective, which new meanings were observed from the data may have influenced how we gathered (Creswell, 2013). Before reporting the find- and analyzed the data from this study. ings, the analytic coding was shown to the Nonetheless, this insider perspective does student participants for their comments and not discredit the trustworthiness of our feedback (Richards, 2005).

To ensure the reliability and internal validity of this study's findings, we followed several steps that Creswell (2013) and Lune being studied, and the trusting relation-& Berg (2017) suggested. First, data were gathered from a variety of sources, such was likely to elicit candid responses from as from observation notes and submitted reflection papers (i.e., data triangulation). Second, data, as shown above, were debriefing from impartial peers so that, as gathered and analyzed by three researchers Lune and Berg (2017) emphasize, we could (i.e., investigator triangulation). Third, a come to understand that we are part of the master list of data gathered was developed life-worlds we seek to investigate. Such so that information could be easily located self-awareness is important in helping us and identified. Fourth, member checking was performed to solicit the student tative study (Patton, 2002). participants' views on the interpretation of gathered data. Fifth, reported findings included details that researchers expected to find before the study as well as information that was not expected and was unusual or interesting. Sixth, selected texts were quoted from the submitted reflection papers in order to support the assertions of this study. Finally, findings were presented in coding tree and tabulated form to create a visual image of the information. To maintain confidentiality and anonymity, findings from this case study of students taking part in service-learning within a primary healthcare setting were reported using pseudonyms.

Representation and Reflexivity

Recognizing that researchers should be "conscious of the biases, values, and experiences that [they bring] to a qualitative chise our study participants and our readers research study" (Creswell, 2013, p. 216), we need to disclose who we are and what we represent. All of us are experienced researchers and service-learning practitioners from the university being researched in this All of the 78 students enrolled in the classstudy. The first researcher is female and has es "The Health Professional as Scientist completed the degrees doctor of medicine or Investigator" and "Philosophy of the and doctor of philosophy in education. The Human Person" for the second semester of second researcher is also female and has school year 2015–2016 were included in this a graduate degree in community develop- study. The age of these student participants

also instances when codes were derived ment. The third researcher is male and findings since, similar to the study of Adarlo and Marquez (2017), voluntary participation of the student participants did not have a bearing on their final grades for the classes ship between the researchers and students these student participants as they wrote their reflection papers. We also underwent position ourselves as researchers of a quali-

> We also acknowledge that "writing a qualitative text cannot be separated from the author, how it is received by readers, and how it impacts the participants and sites under study" (Creswell, 2013, p. 215). That is why we held ourselves accountable as we proceeded with the study. We were careful in informing the student participants about details of the study when we got their informed consent, and we exercised reflexivity by member checking (Creswell, 2013; Tong, Sainsbury, & Craig, 2007). When necessary, we also wrote in the first person, active voice so that we would be more conscious of our role in the inquiry. We were likewise mindful to provide rich description, organize our writing in thoughtful sequencing, use appropriate texts to support our findings, and be clear on our role as researchers so that we would not disenfran-(Creswell, 2013; Patton, 2002).

Findings

(36) of them were male, whereas 54% (42) taking the vital signs of patients; deliverwere female. Most of them came from upper ing lectures to promote health and wellness; middle to high-income families, mean- retrieving, filing, and arranging patients' None of them were new to rendering com- to the community." munity service. In fact, they were familiar with Marikina City, as all of them during their second year in undergraduate education had their National Service Training Program in one of its neighborhoods. Based on their performance for this compulsory civic welfare training service as described by their teacher, only 10% (8) were able to reflect thoroughly about their personal experience in this particular school-community collaboration. Almost all of them had difficulty in relating their experience in community engagement to bigger issues faced by the Philippine society. They also struggled in coming to terms with how they will continue benefiting from their unearned privilege and how these privileges can (un)wittingly marginalize those who do not have the same privileges.

Findings from the analysis of field notes and submitted reflection papers revealed not only several dilemmas that were encountered in service-learning but also (missed) opportunities for transformative partnership in service-learning. These aspects are explored in detail below.

Dilemmas in Service-Learning

Days before deployment to the healthcare centers, students were oriented about the purpose and nature of their service-learning. Most, if not all, were anxious about what their service-learning would entail from them. Reactions included feeling apprehensive of what would lie ahead, but also feeling excited because, according to Sophia, "[they will] be able to apply what [they have] learned from the past semesters. At Because some groups had more individuthe same time, [they] can enrich [their] previous learnings by learning new things." of [their] time for the healthcare center." out of [their] comfort zone" and "were ada-Since service-learning does not seem to be mant that they assembled themselves first, among their usual academic requirements, and thus, were unyielding and unwilling to for service-learning] are quite a lot and the group she and her friends formed would

ranged from 19 to 21 years. By sex, 46% are heavy." These responsibilities involve ing that they held a position of power and records; and measuring the length and privilege relative to those in their service- weight of infants for vaccination, among learning community. Furthermore, 29% other tasks. As a result, Emma, for instance, (23) of these 78 student participants were sensed there is more for them to learn so expected to graduate with academic honors. that they can "be able to greatly contribute

> This perceived need to acquire certain competencies for service-learning is an understandable reaction among the students. However, we did not want them to let their overwhelmed feelings take hold of them and incapacitate them from engaging with those from the community they were assigned to. Based on reflective accounts of students about their orientation to servicelearning, we have also identified a number of barriers that may hinder students from undergoing transformative learning and building transformative partnerships with the community. These include the students' tendency to become self-centered and their notion that people from the servicelearning community are different from them in many aspects (Figure 1).

> Such egocentrism among students was made apparent when their teachers asked the class to group themselves for the service-learning. In general, students chose to be with the peers they considered familiar and "useful" to them. Caitlyn, for example, chose to be in a group where she could have a "sense of security as well as comfort." Similarly, many students chose to be with those they are comfortable with, with whom they would not encounter any difficulties. In the case of Matthew, he would rather belong to a group of students who "can do a great job and be able to work in any kind of conditions" because "[his] grades depend on [them]." Ava, on the other hand, would prefer someone who has a car as part of her group so that "[they] can all comfortably travel" to the healthcare center.

als than the required size, the teachers requested the students to regroup themselves. Some students felt overwhelmed because it However, a number of students, as described appeared they would "have to allot so much by Ryan and Sarah, did not want "to step students, such as Isabella, also felt "pres- rearrange themselves." For Ava, she even sured knowing that [their responsibilities volunteered as one of the 14 leaders so that

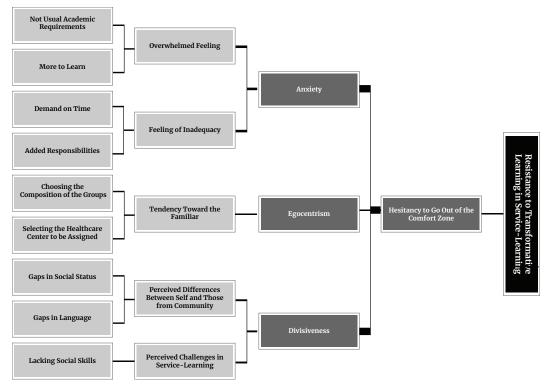


Figure 1. Barriers to Transformative Learning in Service-Learning

remain together. This self-centeredness can healthcare center) and challenged them to be a hindrance to transformative relation – go beyond themselves (i.e., encouraging the ships because, as Sophia realized, it pre- students to put others first by being sensivents them from being sensitive to others tive and showing empathy), they came to and being "open to working with people understand the importance of considerwho are not in [their] circle of friends."

When the groups were then asked by their teachers to decide which healthcare center they would be assigned for their servicelearning, "everyone," as Hannah observed, "tries [again] to put their own interests first." Most students, like Mia, would "want to be assigned in the nearest and most accessible venue of all." "Some groups," according to Sarah, "were plainly keen on avoiding the hassle of a long commute." As for Ryan, among others, they took into Perspective transformation and, in effect, account the time they have "to wake up transformative partnership can likewise be to be at the healthcare center by eight in hindered by perceiving that there are dithe morning and the time it would take for visive differences between oneself and the [them] to get back to school so [they] would have enough time to study for [their] other classes."

Eventually, some students, with the instructional guidance from their teachers, learned to negotiate their preferences and give way to others. As their teachers guided them to take into account the standpoints of others (i.e., probing the students to reveal the reasons for choosing a particular

ing the circumstances of other groups and the welfare of the class. For example, two groups gave way for another group when they learned most of the students from the latter resided far from Marikina City and it would therefore be practical for them to be assigned to the nearest healthcare center. In listening to others and, as termed by Hannah, "setting selfishness aside," resistance to transformative learning can be overcome.

people from the service-learning community. As explained by Lauren, "[they] feel that [service-learning] will be more challenging when it comes to communication because the people, who are there are not the usual people that [they] talk to." In fact, the thought of interacting and conversing with unfamiliar people made Anna, among others, nervous because they were asked "to go out of one's comfort zone."

Table 1. Range of Adult Learning in Service-Learning						
Level of Adult Learning	Characteristics	Findings				
Rote learning	New points of view are established.	New points of view were gained from current understanding as student participants interacted with others from different backgrounds, experiences, and realities.				
	Existing points of view are elaborated.	Existing points of view about those in the com- munity were elaborated as previously held assump- tions of student partici- pants were reinforced.				
Emancipatory learning	Points of view are changed.	Points of view were modified as the taken-for- granted assumptions of student participants about those from the community were challenged during their service-learning.				
Transformative learning	Habits of mind are changed.	Habits of mind were disrupted as a number of student participants made personal resolutions to be in solidarity with the less privileged.				

However, such a disorienting dilemma able to open [herself] to new perspectives prompted some students, like Samantha, because of [their service-learning] encounto "allow [themselves] to 'be one' with the ters." This is because, as Victoria narrated: community . . . [and] to go beyond [their] comfort zone in terms of communicating with others and building relationships." This would include, as Sarah suggested, "[having] to improve [their] social skills in order to successfully build relationship with all the diverse people that [they] will be interacting with." In doing so, not only would transformative learning be facilitated but transformative partnership would also be made possible.

Opportunities for Transformative Partnership in Service-Learning

As students spent their Wednesdays in their respective healthcare centers, servicelearning provided them opportunities, according to Sophia, "to know more of the society [they] seek to create a difference in." New points of view were established (See opportunities to gain insights about the Table 1) as they were "able to interact with healthcare workers' personal experiences in mothers, who have different backgrounds the Philippine health sector as well as their and experiences." Rachel, for example, "was "dreams and aspirations in life."

It's not just the one-time encounter where [they] get the length and weight of the babies then never see them or their parents again. [We] actually remember them, [we] recognize their faces and sometimes even recall their names. [We] share stories with them, especially when they're waiting in line for their turn.

New points of view were also formed (Table 1) as students got to interact with the healthcare workers. They learned, as stated by Julia, how "to build rapport with the healthcare workers, to be in good terms, and to work comfortably with each other." Ryan and Mia, among others, were given

Most students also found the classroom transformative learning were documented sessions helpful in making sense of their as well in this service-learning (Table 1). A service-learning experiences. They were number of students demonstrated changes able to gather new points of view (Table 1) in their habits of mind, as they were able to since their Saturday sessions, as pointed out come up with personal resolutions on how by Sarah, "provided an opportunity where they should proceed from here onward. the students can synthesize their experi- For example, Emma at first saw serviceence by sharing amongst themselves what learning as "a requirement that would make happened during their [service-learning] [her] wake up at six in the morning just . . . and seeing the similarities and dif- to commute to the healthcare center." But, ferences among the different healthcare later on, her perspective about servicecenters." These reflective sharing ses- learning changed, wherein "little by little, sions on Saturdays, as Michelle remarked, dreadfulness became excitement and re-"opened [her] mind to the problems that quirement became service." Similarly, Ryan the healthcare centers in their country usu- no longer considered service-learning a task ally face. It showed [her] different realities to accomplish but a form of service for the of the healthcare centers and how work community. As a result, he has planned "to in a healthcare center was harder than it join sector-based organizations [in school] seemed."

There were likewise opportunities for emancipatory learning as some students' points of view were changed during service-learning (Table 1). Hannah, for instance, realized that she "can never really judge something" at first glance since service-learning was not merely something [they] were 'obliged' or required to do." It essentially entailed a choice from them because "how [they] treated the patients was up to [them], how open [they] allowed [themselves] to others Such perspective transformations, for was up to [them], and how they integrate the most part, involved the political (ex-[themselves] to the community was up to panded sense of social responsibility), [them]." Jen and two other students ini- moral (mutual respect, care, and solidartially thought that they would not make an ity in relationships), and spiritual (deeper impact on the community, but they were understanding of self, purpose, socisoon shown otherwise. As Jen recounted:

When [they] got out of the tricycle, one mother recognized [them] immediately. . . . She even went out of her way to greet [them] and chat with [them] before [they] headed back to the healthcare center. [They] didn't expect that the mothers [they] interact with actually remember [them]. . . . [They] didn't expect these mothers, who only stayed in the healthcare center for around 15 minutes or so would remember the faces of students, who measured the length and weight of their babies.

At that point, she came to realize those "small talks" can be a step toward "a relationship, which was deeper and more were elaborated. In the case of Michelle, personal."

because [he wants] to interact more with marginalized sectors of society." As for Mia, she has resolved to "make an effort to know about the community more" by focusing less on self-fulfillment and more on "how the people in the community feel." Hannah, on the other hand, has decided to carry on "everywhere, especially in the future when she [becomes] a doctor," the attitude of reaching out and establishing relationships with the less privileged.

ety, and greater good) domains of these student participants. Perspective transformations of intellectual (questioning of origin and nature of assumptions) and personal (rethinking of self-concept and lifestyle) domains occurred occasionally. Perspective transformations of the cultural (questioning of Western thinking) domain were rare.

Nonetheless, there were missed opportunities for transformative partnership in service-learning despite instructional guidance from the teachers (i.e., posing questions to students and challenging them to reflect on their taken-for-granted assumptions, put on hold their judgment about others, and be open to the unfamiliar). Instead of taking on a different attitude toward servicelearning, students' existing points of view there "was no Wednesday that [she] didn't find [herself] having a hard time to wake up Although not as common, opportunities for since it was the earliest activity [she] had

for the whole week." This predisposition place because individuals, for the most part, for personal convenience was also evident are unaware how certain social norms legitcommute to and from the healthcare center in society (Cranton, 1994). Furthermore, inusing the public transportation system:

On the way to [the healthcare center], it was not yet that hot and there were less people commuting. But on the way back to [school], it is already almost noon and it is just so hot and all the [public utility vehicles] are full so it's very tight inside.

Another student, James, was not able to have meaningful and relevant experiences an inclination to adhere to the familiar may in service-learning as he continued to perceive the patients in the healthcare centers as "not so glamorous" and the tasks he had to perform on Wednesdays as "very monotonous."

Furthermore, most reflective accounts of these student participants did not consider the differences in power and privilege between themselves and those from the community they served. As a result, their efforts in service-learning may have fallen short of bringing about social transformation.

Discussion

Such missed opportunities, for the most part, have stemmed from unresolved dilemmas in service-learning: Participants put self-preservation and self-interest first instead of taking into consideration the common good, and differences rather than similarities were emphasized when relating to others.

These missed opportunities for a transformative partnership in service-learning orientation of the educator and prior life occur due to distorted assumptions or experiences of the learner are likewise premises that direct an individual, accord- contributory to transformative learning, ing to Mezirow (1991), "to view reality in a inasmuch as temporal constraints and emoway that arbitrarily limits what is included, tional issues are unfavorable to perspective impedes differentiation, lacks permeability transformation (Taylor, 2009). or openness to other ways of seeing, or does not facilitate an integration of experience" (p. 118). These are, as Cranton (1994) describes, errors of learning since "what we have learned, how and where we grew up, and how we see ourselves" have remained unquestioned and unexamined (p. 30). Resistance to transformative learning in the context of service-learning can bring about such errors of learning.

Distorted assumptions or premises take biographies of these students varied. As also

in Ava, who frequently complained of the imize the distribution of power and privilege dividuals have the tendency "to reject ideas that fail to fit our preconceptions, labeling those ideas as unworthy of consideration aberrations, nonsense, irrelevant, weird, or mistaken" (Mezirow, 1997, p. 5). Thus, we usually block out unwanted aspects of our realities, or we simply do not focus on them so as not to get anxious about the changes that accepting them may bring to us (Cranton, 1994).

> In this study, lack of critical awareness and account for the unresolved dilemmas and missed opportunities in service-learning. In many ways, these factors may have limited some of the students' openness to personal and social transformation (Cranton, 1994). Instead of transformative learning, existing points of view about themselves and others were elaborated further in some student participants. However, for most students, new points of view were established and existing points of view were changed because of their service-learning. A number of student participants also exhibited an incremental change in their habits of mind as a result of accumulated changes in their points of view.

> There are likewise several factors that can affect transformative learning. A trusting relationship between a teacher and a student, value-laden course content, intense experiential activities, occasions for journal writing and premise reflection, mature cognitive development, and recent experiences of critical incidents are more likely to bring about transformative learning. Theoretical

> Because various factors were at interplay, differing degrees of transformative learning were seen among the students included in this case study. Course contents were valueladen, journal-writing time was allotted in class activities, and reflective sharing was provided on several occasions in class; however, teacher-student relationships, maturity of students, capacity for reflection, experiences at healthcare centers, and

shown in this study, not all personal trans- the world. This would involve reflecting not formation can turn into social transforma- only on one's thoughts and actions but also tion, as implications to society were not on interaction with others and the ethical, prominent among the students' reflections. social, and political contexts (Smith, 2011).

tensify opportunities for critical reflection during the teaching–learning process. These opportunities include prompting students to ity, educators also have to take into account go beyond self-critique and to examine, as Smith (2011) points out, "the uniqueness of our 'individual' positionality within social systems" (p. 213). Educators, as Mezirow dents to take a proactive rather than a reac-(1991) points out, should "encourage learners to choose freely from among the widest range of relevant viewpoints" (p. 225), not only so that alternative perspectives are taken into consideration but so that distorted frames of reference can also be further challenged. Additionally,

the [teaching-learning process during service-learning] should be purposeful and heuristic, power should be confronted, differences should be taken up, imagination should be involved, learners should be led to the edge, and teachers and other persons supporting the [teaching-learning process] should be aware that they function as models. (Illeris, 2014, p. 93)

However, it is important that educators gently prompt students to step out of their comfort zone because resistance Based on field notes from participant obsermay happen when students are forced to vation and discourse analysis of students' confront the unfamiliar. As seen in how reflection papers, barriers to transforma-Jakubowski and McIntosh (2018) carried tive partnership in service-learning include out their service-learning, educators should students' tendency to become anxious and meet the students "where they are" (p. self-centered when they encounter the 50). They should be able to create a safe unfamiliar and their tendency to perceive space for students to be open and willing to those from their service-learning commuundertake transformative learning during nity as different from them in many astheir service-learning.

To facilitate perspective transformation instructional guidance from their teachers, and uphold a transformative partnership some students were able to become aware in service-learning, reflective writing and of these tendencies and were able to estabreflective sharing are essential components lish new points of view, alter their existing of the teaching–learning process. Reflective points of view, or change their prevailing writing can challenge "learners to both habits of mind. Nevertheless, a number of recall from memory and verbally articulate students did not undergo perspective trans-[their] reflective moments" (Taylor, 2009, formation during their service-learning in p. 9), and reflective sharing can "validate a primary healthcare setting. Resistance to commonly held meanings" (Mezirow, 1991, transformative learning occurred because p. 63). Educators should emphasize to the of unresolved dilemmas. As a result, their students at the outset the purpose of re- existing points of view or habits of mind flective writing and reflective sharing: that persisted despite teaching-learning opporis, to decenter oneself and to engage with tunities to examine distorted assumptions

Thus, there has been a growing need to in- Because students in a class do not necessarily have the same prior experiences, cognitive development, and reflective abilthese diverse needs of learners in carrying out service-learning. Timely scaffolding, as Ryan (2013) suggests, is vital to guide stutive stance to their experiences, as transformative learning entails both a decision and an action for personal and social change. Doing so requires educators to provide an atmosphere of acceptance and support so as to nurture a trusting relationship between themselves and their students (Cranton, 1994). This kind of support would also have to involve the educator joining students as a learner during the teaching-learning process (Marmon, 2013).

Conclusion

Transformative partnership is essential in service-learning. There are, however, barriers that hinder transformative partnership taking place during service-learning. This study examines how undergraduate students, as part of the university, are held back from forming a transformative partnership with individuals in a community. pects. But through reflective writing about experiences in service-learning and through formative learning may require not only so that accounts from their reflection papers approach from teachers.

These findings can represent the contextual richness of educational settings such as service-learning, since case studies allow researchers to "get as close to the subject of interest as they possibly can, partly by means of direct observation in natural settings, partly by access to subjective factors (thoughts, feelings, and desires)" (Bromley, 1986, p. 23). However, findings from this Despite these shortcomings, this case study study should be considered in view of a not only offers "an experiential understandnumber of limitations that were encoun- ing of action and context" (Stake, 2010, tered. First, these findings may be specific to p. 48); it can also provide "the views and the situational context of this study. Further perspectives of study's participants" (Yin, research in a similar setting is needed to 2016, p. 9). Its findings have implications confirm the findings reported in this case for educational practice, as barriers to and study. Second, one academic semester may teaching-learning opportunities for transnot be enough for transformative learn- formative partnership in service-learning ing to take place. A longitudinal study may were examined. Findings from this study be warranted to examine transformative can inform educators on how to proceed learning in detail. Third, student partici- with service-learning as a method of teachpants might have given socially desirable ing and as a form of university-community responses, knowing that their reflection collaboration: That is, not only should critipapers would be graded and that they were cal reflection be deliberate and purposeful observed by their teachers while in service- but instructional guidance should also meet learning. This study (and similar studies) the students where they are by addressing

and premises. Such resistance to trans- in-depth interview of student participants timely scaffolding but also a differentiated could be verified and multiple meanings could be gathered from triangulation of data. Fourth, issues of reflexivity are typical of qualitative research. Studies of this kind require researchers to be mindful of certain assumptions that they may have and how these assumptions may have affected the research approach. Member checking and peer debriefing were carried out to minimize these issues of reflexivity.

would have benefited from an extended and their different and various learning needs.

Declaration of Conflicting Interest

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How Do Academic Agriculturalists Engage in and View Outreach? The Case of Faculties of Agriculture in State Universities of Sri Lanka

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Abstract

This study aims to fill in the gap in literature on the state of academic engagement in Sri Lanka by investigating types of outreach engagement activities, outreach mechanisms, and attitudes of academic agriculturalists toward outreach. An online questionnaire survey was conducted among the academics (stratified random sample of 257) across eight faculties of agriculture in the state universities of Sri Lanka. According to the results, the average number of outreach activities per academic per year was 2.9, and the majority spent less than 5% of their working time on outreach activities, indicating low involvement in outreach by the academics. However, they held positive views on outreach engagement. Generally, the academics engaged in outreach activities through personal or informal individual contacts. Findings help provide guidelines for strategies to improve outreach engagement by academics at department, faculty, university, and national levels in Sri Lanka.

Keywords: outreach, academics, faculties of agriculture



Status of Outreach of the Faculties of Sri Lanka

he state university system in whole. Sri Lanka consists of 15 nariculture attached to the Universities of to Sivayoganathan (1999), the Sri Lanka Peradeniya, Ruhuna, Rajarata, Wayamba, Council for Agricultural Research (SLCARP) Jaffna, Sabaragamuwa, Uva Wellassa, and had attempted to develop a national policy Eastern University, offering agriculture- for agricultural extension, but it had not related degrees. The eight universities are been successful. There is no formal system located in different geographical areas of or mechanism to include and obtain the the country belonging to eight provinces participation of faculties of agriculture in out of nine. These provinces vary in terms the agricultural extension system of the of geography, crop and livestock production, country. Unlike the more basic sciences, human resources, industries, and other so- the faculties of agriculture should have cioeconomic conditions. According to Wolfe more deliverable research outputs and (2005), universities must be an important knowledge for the community and induspart of regional development. Therefore, try. Outreach engagement or the extension all the faculties of agriculture have the op- activities of the faculties are an important portunity to engage in national-level and conduit to disseminate the research output

regional-level outreach activities that will of Agriculture in the State Universities contribute to the improvement of regional agricultural and rural development as well as the development of the country as a

> tional universities situated in The role of faculties of agriculture in the different parts of the country. national agriculture extension service has There are eight faculties of ag- not been defined and recognized. According

the agricultural universities may include reviewing higher education institutions in educational programs for communities, Sri Lanka. Outreach has also been identicommunity-oriented research, and various fied as an important indicator in quality kinds of services to the community such as assurance, along with nine other critetechnical assistance and agricultural and ria (Warnasuriya, Coomaraswamy, Silva, rural planning (Bor, Shute, & Moore, 1989). Nandadewa, & Abeygunawardena, 2015).

According to Crowder, Lindley, Bruening, and Doron (1998), agricultural education institutions play an academic role and also a community development or outreach role that allow them to understand local knowledge and combine it with modern agricultural science. It is emphasized that higher agricultural education institutions need to engage more directly and more effectively with local educational institutions such as schools that provide primary and secondary education, and their surrounding communities (Atchoarena & Holmes, 2005). However, traditionally, many agricultural universities in developing countries have defined their primary mission as training of human resources (Hansen, 1989), which is provided by offering academic degrees. Academic staff of the universities are mainly responsible for teaching, research, and outreach activities. Therefore, engagement in outreach activities by academics is an important aspect of higher education in agriculture as well as the agricultural development process of the country.

Ecklund, James, and Lincoln (2012) stated that there are no nationally representative studies to determine which scientists promote university outreach activities in Sri are engaged in outreach, or what types of Lanka, but such knowledge is lacking. outreach scientists do, and also that little is known about the views of scientists' outreach efforts across a broad variety of institutions and disciplines in the United States. He also claimed that there is a lack of knowledge about what strategies could be most effective in creating better outreach efforts. This research gap is evident in the knowledge is necessary to better analyze the Sri Lankan context as well.

Different countries have adopted different strategies to link agricultural faculties with national research, innovation, and extension systems and have achieved various levels of success. The recent direction of the University Grants Commission (UGC) in Sri Lanka giving more attention to improve university-industry linkages, riculture in state universities of Sri Lanka. community-based learning, and outreach activities are a positive trend. The UGC has identified outreach as a mandate of universities. Therefore, community engagement, consultancy, and outreach activities have Traditional definitions of the term univer-

to the public. The outreach activities of been included in the evaluation criteria in Despite the fairly new and growing interest of the Sri Lankan government, policymakers, and educational specialists in university outreach engagement, only a few research studies have been conducted on university outreach activities (sometimes referred to as the university-industry linkage) to facilitate policy formulation in Sri Lanka (Esham, 2008). Harankaha (2013) examined the innovations by university academics in relation to law and a legislative view. Nisansala et al. (2014) studied the commercializing of university research outcomes in Sri Lanka and stated that there is a lack of research in related topics. Furthermore, there has been no full investigation of academics' views on present engagement, mechanisms of engagement, and factors hindering the active participation of Sri Lankan universities with special reference to faculties of agriculture in utilizing available research outcomes, knowledge, and expertise to address the needs and problems faced at the stakeholder level. Identification of the factors that affect engagement in outreach activities by academics as viewed by them would be helpful for policy implications and for designing guidelines and procedures to

> Although at present the UGC has identified outreach as a mandatory function of universities, no detailed study has been performed to determine how academics view outreach, which is an important determinant of the involvement of academics in outreach. Such current situation and thereby develop more appropriate strategies and plans that will enable the achievement of the goals determined by the university system in relation to outreach. Therefore, the objectives of the present study were to investigate outreach engagement, outreach mechanisms, and views of academics on outreach engagement with special reference to the faculties of ag-

Working Definition of the Term "Outreach"

sity mainly focus on teaching and research as the primary functions of a university. However, scholars have also identified the role of the university as focusing on different aspects important for higher learning and the development process of the country to meet societal needs. This function of a university is known as "outreach" in general. According to Fear and Sandmann (1995), university outreach is one of the six types of public service, along with inreach, university service, professional service, community/civic service, and consulting. Further, Fear and Sandmann consider outreach part of the academic core, which cuts across teaching, research, and service. The definition of outreach for Michigan State University is "a form of scholarship that Data Collection cuts across teaching, research and services. It involves generating, transmitting, applying, and preserving knowledge for the direct benefit of external audiences in ways that are consistent with university and unit missions" (Provost's Committee on University Outreach, 2009, p. 1). Poliakoff and Webb (2007) define university outreach as any scientific communication that engages an audience outside academia.

According to Bor, Shute, and Moore (1989), the outreach or extension tasks of an agricultural university consist of the more direct contribution of higher agricultural education to agricultural and rural development. Outreach activities may include educational programs for communities beyond the university campus, the conduct of policy initiatives, industry-and community-oriented research on issues identified by the consumers themselves, and offering various kinds of services to the community such as technical assistance and agricultural and rural planning. This definition is more relevant and provides the basis for the present study, as it directly defines outreach tasks of agricultural universities. The derived working definition for the term outreach for the present study was the process of active participation with community partners (government, industry, and community) to effectively apply and utilize the university academics' knowledge, resources, and expertise to address the partners' needs and problems. Schools, farmers, farmer or community organizations, and the general Primary data were collected between the public were considered the community. period 1 May 2014 to 30 July 2016. Both Such outreach activities as educational pro- quantitative and qualitative data were colgrams, trainings, workshops, consultancies, lected using closed-ended and open-ended and development projects were taken as questions through the abovementioned units of analysis in this study.

Methodology

Study Sample

All the faculties of agriculture (n = 8) in the state universities of Sri Lanka offering agriculture and related degrees were selected for the study. A stratified random sample was selected for the study. Faculties of agriculture were considered the different strata. The sample consisted of two thirds of randomly selected academic staff members from each faculty (67%; N = 257). Department heads and the heads of the outreach units and programs were selected as the key informants.

A self-administered questionnaire was used as the instrument for data collection. The questionnaire was constructed using the following subheadings: personal profile, professional profile, outreach activities, and suggestions. Views of the academics were investigated mainly on (1) outreach engagement, (2) factors that would hinder outreach, (3) supportive and approving nature from others, and (4) satisfaction. Extent of outreach engagement was measured through numbers of outreach activities engaged in within the last 3 years. The questionnaire was piloted with 10 academics and necessary improvements were made. Then the questionnaires were sent by post and also e-mailed to the selected respondents. Survey recipients were sent reminders three times to encourage responses to the survey. A total of 126 filled questionnaires (49% response rate) were returned after three reminders. Two returned questionnaires were not used due to incompleteness.

Structured interviews with potential key informants were conducted by visiting all eight faculties of agriculture to collect data from existing centers/units and programs of the agriculture faculties involved in outreach activities. Interviews were conducted with the directors of the Agriculture Education Unit (AEU), Agribusiness Centre (AbC), and Agricultural Biotechnology Centre (AgBC) of the Faculty of Agriculture, University of Peradeniya.

methods of data collection. A mixed method

study.

Data Analysis

Data were analyzed using descriptive and inferential statistics. Descriptive statistical analyses were used to summarize data and explain the basic characteristics of the respondents and other findings related to outreach activities. Primary data gathered from key informant discussions were qualitatively analyzed.

Results

Background of the Respondents

The sample adequately represented all levels of academics in terms of their grade of employment, namely, professors (20%), senior lecturers (55%), and lecturers (25%). Among the respondents, 56% were male academics and 44% were female academics. Therefore, the sample represented both male and female academics adequately.

In the study sample, 79 academics out of (61%) agreed or strongly agreed that engag-124 of the total sample (61%) had a Ph.D. ing in outreach activities is beneficial. To degree, and 98% of them had obtained their further develop such attitudes, it would degrees from foreign universities. An addi- be important to enhance the benefits for tional 35% of the responding academics held academics who are engaged in outreach a master's degree, and only 4%, who were activities through career advancement/ probationary lecturers, had only the basic promotions and/or opportunities for fidegree. This result shows the higher level of nancial benefits. Some opportunities for academic qualifications of the respondents, financial benefits can be created through which can be useful in engaging in outreach consultancies and in research and developactivities. Only 30% of the academics in the ment projects linked to industry and the study sample had low experience (less than private sector. Interestingly, the majority of 5 years). Among those with more than 5 respondents (86%) reported that they enjoy years of experience, 18% had experience of outreach engagement. more than 20 years.

Established Universities and Newly **Established Universities**

Universities were divided into two categories, well-established universities and scale that included the following categories: newly established universities, based on the "very great extent," "great extent," "some-year of establishment, to see whether there what," "very little," and "not at all." The is a difference in outreach engagement in results showed that 35% of the participants terms of the length of time a faculty had had "very little" engagement in outreach been functioning as an indicator of their activities. However, the majority perceived resources and experiences. Accordingly, that they were engaged in outreach acfaculties established before 1985—namely, tivities "somewhat" (38%) or to a "great faculties in the Universities of Peradeniya extent" (21%). Furthermore, only a few and Ruhuna—were considered to be in respondents (4%) had not been involved in well-established universities. Although the any kind of outreach activity during the past University of Jaffna and Eastern University 3 years. These respondents were newly re-

of research design was adopted for the 1990 respectively—their functionality had been disturbed due to 30 years of civil conflict in the country. Therefore, these two faculties were also considered under the category of newly established faculties. Accordingly, the faculties of agriculture established after 1985 in Eastern University and universities in Jaffna, Rajarata, Wayamba, Sabaragamuwa, and Uva Wellassa were considered newly established.

How Do Sri Lankan Academics View Outreach?

Table 1 summarizes the views of the academics regarding outreach involvement. Most of the academics (83%) viewed outreach as a mission of the university and agreed or strongly agreed that they have a duty/responsibility as scientists/ academics to engage in outreach activities (87%). Although outreach has been identified as a mandate of universities, 7% of the academics disagreed or strongly disagreed that outreach should be considered a duty or a responsibility of an academic, and 6% neither agreed nor disagreed. A majority

Extent of Outreach Engagement

The participants were asked to assess the extent of their outreach engagement. The extent was measured using a 5-point Likert were established quite early—in 1986 and cruited probationary lecturers. Their lack of

Table 1. Views of the Academics Regarding Outreach Involvement					
Statement	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
My belief is that outreach is a mission of the university	51%	32%	9%	6%	2%
I have a duty/responsibility as an academic/scientist to engage in outreach activities	42%	45%	6%	5%	2%
Engaging in outreach activities is enjoyable	59%	27%	8%	4%	2%
Engaging in outreach activities is beneficial	37%	24%	11%	20%	8%
Average	41%	32%	8%	9%	4%

participation in outreach probably reflects with industry was less than in other sectors their need to initially focus on duties as- (24%), indicating the need for improvement signed to them such as teaching. They may of the linkages with industry. also not have adequate academic training and experience to engage in outreach.

What Do Academics Do as Outreach?

Figure 1 shows the different types of outreach activities conducted during the 3-year and representing the university in commitof outreach activity conducted was trainings (32%), followed by workshops (24%), seminars (21%), consultancies (15%), and development projects (8%). In terms of the target sectors for outreach activities, the government sector, including different government departments, authorities, and institutes, was the key audience, with the highest percentage (43%). The involvement

Less than 5% of the respondents also indicated some other outreach activities, such as serving as visiting lecturers for other universities, holding membership in professional bodies and serving as office-bearers, period 2012-2014. The most common type tees or meetings of different government departments and institutes at regional and national levels. These activities also enable academics to contribute their expertise to agencies outside the university.

> Table 2 shows the number and the type of outreach activities conducted by academics for different sectors during the 3-year period during 2012-2014. The most common

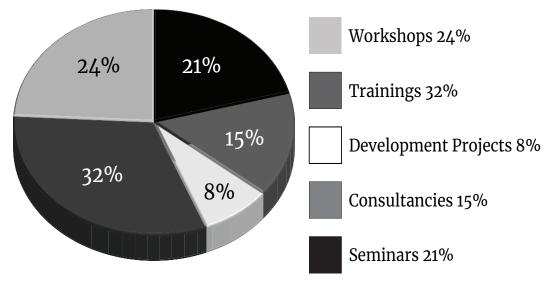


Figure 1. Different Types of Outreach Activities Conducted from 2012-2014

Table 2. Number of Outreach Activities Conducted by Academics for Different Sectors During the 3-year Period 2012 to 2014								
Outros sh Astinitar	Community		Industry		Government		Total	
Outreach Activity	No:	%	No:	%	No:	%	No:	%
Trainings	145	40	65	25	134	29	344	32
Workshops	88	24	51	20	127	27	266	24
Seminars	61	17	70	27	100	21	231	21
Consultancies	50	14	59	22	54	12	163	15
Development Projects	19	05	17	06	52	11	088	08
Total No:	363	33	262	24	467	43	1092	100

Note: Government includes the different departments, authorities, research, and other government institutions. Community includes farmers, schoolchildren, and the general public. Industry includes basically the private production and service industries.

type of outreach activity was trainings As indicated, most of the outreach activities (344). Within that, the highest number of were trainings, workshops, and seminars to trainings (145) was conducted for the com- transfer knowledge. This result, supported munity, which consisted of farmers, school- by key informant discussions, revealed the children, and the general public. In terms traditional view of linear knowledge transof the total number of outreach activities fer (top-bottom approach) from institutions conducted by academics of the study sample to the end users. This model is more in line (n = 124) during the 3-year period, the least with the general agricultural extension involvement was in development projects approach. The basic assumption of this (88). In terms of the sector of involvement, approach is that technology is generated and government ranked the highest (467), fol- information is available that is not being lowed by community (363) and industry used by end users, and if this knowledge (262). The results clearly indicated that the could be communicated, practices would involvement of academics with industry was be improved (Axinn, 1988). These kinds of less than with the government sector and models are said to be traditional and topwith the community.

down because the active participation of all

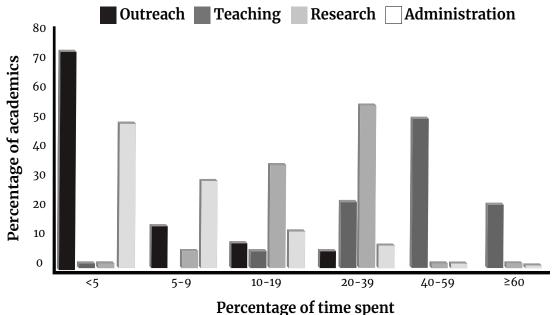


Figure 2. Self-assessment of Share of Time Allocated by Academics During One Week for Different Activities

involved parties in sharing of knowledge ing, research, and administration affected at different levels of technology genera- their extent of outreach engagement to tion and use is lacking. However, the term a "very great extent" or "great extent." sharing of knowledge and joint efforts with major factor affecting 52% of the academthe stakeholders to address the problems ics' potential engagement in outreach acfaced.

How Much Time is Allocated for **Outreach Activities?**

Basically, academics are involved in teaching, research, administration, and outreach activities. Figure 2 shows the percentage of time allocated by academics for different activities during a week (8:00 a.m. to 5:00 p.m.), including weekends. Weekends were included since the majority of the academics are involved in postgraduate teaching and research and also in outreach activities during the weekends. This was so because even though the general working hours (8:00 a.m. to 5:00 p.m.) were considered a norm, most of the teaching, research, and outreach work in academia do not conform to these general working hours.

As illustrated by Figure 2, the majority of the academics (73%) spent less than 5% of their time on outreach activities. About 50% of academics spent 40%-59% of their time on teaching, and 54% spent 20%-39% of their time on research. In general, most of the academics devoted their time mainly to teaching activities, which is the core function of the university.

Teaching and research are considered the main role of a university. Therefore, academics devote their time mainly to teaching and research activities (Figure 2). Additionally, they also engage in administrative roles such as heads of departments, deans of faculties, directors of different units, and as the members of different subcommittees of their respective faculties and universities.

Perceived influence of time availability on an assumption seems to be, even though outreach engagement was measured using not explicit, that roughly at least 10% of the the statement "There is no time to engage achievements are associated with activities in outreach activities due to the workload of teaching, research, and administration." A 5-point Likert scale was given with the should devote approximately 10% of their following response options: "very great extent," "great extent," "somewhat," "very little," "not at all."

According to the results, nearly half of time when the need arises, it is noted that the respondents (48%) stated that not it is an extremely difficult task to set norms having time due to the workload of teach- that are basically a standard for the whole

"outreach engagement" is meant more for Accordingly, time availability is not a tivities. According to the Mann–Whitney U test, there was a statistically significant difference (U = 1.356, p = 0.03) between well-established universities and newly established universities in the impact of available time for outreach engagement. According to the mean ranks, academics in newly established universities claimed that they do not have time to engage in outreach activities (M = 64) compared to those at well-established universities (M = 60). According to the key informant discussions, the workload of the available staff of newly established universities is high due to lack of staff members in their faculties. Another contributing factor for the heavy workload of staff was that many of the newly recruited staff members were away on study leaves for their higher studies such as to obtain master's and doctoral degrees.

> Presently, there is no accepted norm regarding how much time should be allocated by an academic in a Sri Lankan state university for outreach. Such a norm was not found in literature for other countries in the region as well. However, as outreach is one of the criteria for institutional review of Sri Lankan universities and higher education institutions along with nine other criteria, it would be beneficial if some guideline is provided to evaluate the level of outreach of faculties and correspondingly the level of outreach of individual academic staff members. It is noted that to become a professor, according to the grading scale given by UGC, it is essential to obtain a minimum of 10 points for the category of dissemination of knowledge and contribution to university and national development, out of a minimum of 105 points. It may be surmised that related to outreach. Accordingly it may be suggested as a guideline that an academic

> Even though the above value has been suggested for initial thoughts at an appropriate

and the contacts established, differ vastly tiate and develop outreach engagement, but between senior staff and newly recruited a formal mechanism to facilitate the process staff. Similarly, the contexts of established is a necessity. According to a key informant universities and the more recent ones are discussion conducted with a head of a dealso very different in terms of resources that partment in Ruhuna University of Sri Lanka, could be allocated to outreach, especially there is no strong mechanism in the faculty human resources where priority would be for recording, monitoring, and evaluation placed on teaching when the number of of the outreach engagement of academics. staff is limited or many of the new staff are Some academics do not even report their on long-term study leave.

Further, it is also noted that although the university system has been operating for decades in Sri Lanka, this system has only recently begun to address the issue of norms for teaching and research. Given that norms for two well-accepted areas have experienced development only recently, it may be premature to set norms for outreach that need to be adhered to. The present need is to promote and obtain greater acceptance regarding the need for outreach, rather than trying to "force" a particular number of hours on an academic member. Thus, to restate, the value is only to give a suggestion for consideration when such a need arises in the system.

Outreach Strategies of the Faculties

Some universities in the world have formal. dedicated outreach centers as the outreach arms of the university and adopt different strategies to conduct outreach activities at the university. There were different outreach strategies in faculties of agriculture Agriculture in University of Ruhuna in Sri in state universities of Sri Lanka. However, outreach centers or units have been established only in a few faculties. AEU, AbC, and AgBC of the Faculty of Agriculture at project focused on the use of mobile phones the University of Peradeniya, University for technology dissemination to small-scale Interactive Cell in Faculty of Agriculture mushroom producers. During a 6-month of the Eastern University of Sri Lanka, and time span, 5,583 mushroom farmers ac-Outreach Centre in Faculty of Animal Science cessed the program and obtained relevant and Fisheries in the Wayamba University of knowledge elements for the enterprise. This Sri Lanka are examples of such units. There project demonstrated that it is possible to were some teams/committees to coordinate have a sustainable private sector partneroutreach activities in some faculties where a ship even without a dedicated outreach arm. specific outreach center/unit is absent.

Method of Coordination of Outreach Activities of the Academics

Coordination of outreach activities was, for most academics, achieved through individual/personal contacts (44%), followed by the dean or heads of the departments (37%). Only 18% of the academics had their There was no full-time academic member outreach engagement through an outreach or specifically recruited person for outreach center or team in the faculty. It is important activities in seven faculties of agriculture

system. The time that could be allocated, to utilize personal contacts/network to iniengagement to the faculty board since there is no mandated requirement. Accordingly, he pointed out that although the academics are engaged in outreach activities, there is no follow-up mechanism to evaluate the impact. Therefore, it is difficult to determine the effectiveness of such outreach work.

> The key informant discussions confirmed that there was no formal mechanism, center, or office dedicated to outreach activities in many faculties of agriculture in the universities of Sri Lanka. In some universities, there were outreach mechanisms established by different programs and projects, but they were not sustainable. The main barrier to sustainability was inadequate financial support and less recognition and rewards for academics who were engaged in administration, coordination, and other work related to outreach activities. However, one recent outreach initiative—a mobile phone intervention in the mushroom industry by Faculty of Lanka (Wijerathna & Silva, 2014)—has been an example of a successful collaboration with a private mobile service provider. The According to the key informant discussion with the activity coordinator of this project, it was successful due to the positive attitudes and commitment of the academic staff members. He also mentioned that the use of information and communication technology (ICT) enabled them to serve a larger community.

and recognition. The unit provides a plat- and this is a positive trend. form for academics to engage in outreach. Furthermore, having such a unit is important because the reduction of bureaucracy streamlines financial handling and enables quick decision making. However, he highlighted the fact that the position needs high commitment due to the obligations for teaching and research as an academic. Further, he mentioned that the rewards and recognition for the commitment are less tangible. He also indicated the need for adequate office space and a dedicated staff member for clerical work and as an office assistant. It was observed that the success of the unit is dependent solely on the commitment of the person and on personal characteristics such as ability to develop a network with external constituents.

The directors of the ABC and AgBC are a permanent cadre position of the Faculty of Agriculture, University of Peradeniya. They report to the dean of the faculty. Therefore, the line of command is relatively short and thus less bureaucratic. According to the key informant discussion with the director of the AgBC, it is an advantage to have separate infrastructure facilities, including research labs, equipment, and a supporting staff. Furthermore, the challenge of the ties for satisfaction with outreach activities. center is to earn money for its existence. The center is in a financial deficit since it The academics in the well-established does not receive money from UGC allocations. However, the center earns money by isfied (69%) with outreach activities; in offering services to outside professionals, comparison, only 23% of those in newly agencies, and organizations. According to established universities gave the same the views of the director of the AgBC, the responses. Furthermore, only 24% of acaservice to the farming community is ne- demics in the well-established universities glected due to a lack of funding to provide were dissatisfied or highly dissatisfied about free services.

boards work as the directors, coordinators, ence is probably due to more opportunities and officers-in-charge in the outreach cen- and facilities for outreach activities being

out of eight. There was a permanent person ters, units, and teams on a voluntary basis recruited as a senior lecturer and to act as in addition to their teaching, research, and the director for only one outreach arm of general administrative roles in the faculty. the one faculty, namely, AgBC of the Faculty According to the key informant discusof Agriculture, University of Peradeniya. In sion conducted with the coordinator of the addition, an academic cadre has been se- university-industry linkages at Eastern cured to serve in a similar capacity in the University, academics were reluctant to ABC of the same faculty. The director of the serve in these positions due to inadequate AEU is selected once in 3 years from the ac- recognition and rewards and also because ademic staff members of the Faculty Board. of time constraints. However, at present, According to the key informant discussion outreach activities in most of the faculties conducted with the director of the AEU, it is have been promoted through the Quality important to have such a unit in the faculty and Innovative Grant (QIG) provided by the to reach the public as the AEU rather than World Bank through the Higher Education as individuals in order to maximize trust for the Twenty First Century Project (HETC),

Perceived Satisfaction of Academics With **Their Outreach Engagements**

Satisfaction of the academics in terms of quantity and quality of their outreach activities was measured. Only 31% of the academics who responded were satisfied with the outreach activities, and 38% were neutral in their response. More importantly, 21% were dissatisfied, and 10% were highly dissatisfied regarding outreach activities in comparison to teaching, research, and administration activities. The majority of the academics were highly satisfied about their teaching (69%) and research (69%), and 58% were neutral in response for the satisfaction about administration. This may be due to the low involvement of the majority in administrative work.

A Kruskal-Wallis test resulted in no statistically significant association between the two types of universities for satisfaction related to teaching ($x^2 = 0.116$, p = 0.733), research $(x^2 = 0.245, p = 0.621)$, and administration $(x^2 = 0.071, p = 0.789)$. However, there was a statistically significant relationship ($x^2 =$ 8.87, p = 0.003) between well-established universities and newly established universi-

universities were highly satisfied and satoutreach, whereas 43% of those from newly established universities responded as dis-In all other cases, academics of the faculty satisfied or highly dissatisfied. This differ-

Table 3. Response of the Academics for the Statements on Subjective Norms					
Statement	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
My academic colleagues would approve the engagement in out- reach activities.	25%	48%	19%	6%	2%
My superiors (e.g., head of the department/dean of the faculty) would approve the engagement in outreach activities.	19%	62%	11%	6%	2%
My friends (nonacademic and family members) would approve the participation in knowledge and technology dissemination.	23%	56%	12%	7%	2%
Average	22%	55%	14%	6%	2%

available in well-established universities Factors Hindering Outreach Engagement than at newly established universities. Furthermore, the academics of newly established universities have less time for outreach due to the workload of teaching, research, and administration.

Views on Approval and Support From Others for Outreach (Subjective Norms)

Subjective norms are the beliefs about whether a specific reference group would approve or disapprove of a particular behavior, and that was measured using three statements. According to Ajzen (1999), approval of the institutional community as well as family, friends, and other related outsiders is also an important factor governing a particular behavior. Therefore, it shows the perceived social pressure for a given behavior.

In general, the majority of the academics felt that outreach activities planned and implemented would get the approval and thereby the support of their academic colleagues, superiors (head of the department/dean of the faculty), friends, and family members (Table 3). The results thus revealed that in general the academics perceived obtaining the necessary support and motivation from the institute itself as well as from their families and outside friends to engage in outreach work. This approving/supporting nature of the academics and superiors should be continued to improve outreach engagement by academics.

The ability to perform outreach tasks and the availability of resources and opportunities were important considerations in this study. Table 4 shows a summary of the responses given by academics for the statements given to assess the perceived hindering factors for outreach engagement.

The majority of the academics perceived that they have necessary knowledge and skills to engage in outreach activities and perceived that they have enough experience/ training to engage in outreach activities. However, most of the academics agreed that the universities lack established networks with government, the private sector, and the community for outreach activities. Furthermore, the majority agreed that they do not have a central mechanism/unit to coordinate outreach activities of their faculties. Some academics (39%) perceived that their universities do not have a policy toward outreach engagement, and this could influence the outreach activities performed by them.

Table 5 shows the perceived effect of different resources (financial, human, and physical) on outreach engagement. The majority of academics perceived that they do not have adequate financial, human, and physical resources in their faculties to engage in outreach activities. Therefore, it is important to improve the human and physical resources and provide adequate financial resources necessary for outreach engagement. It was assumed that well-established universities and newly established universi-

Table 4. Response of the Academics Regarding Hindering Factors That May Affect Outreach Engagement						
Statement	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	
I do not have necessary knowledge and skills to engage in outreach activities.	2%	2%	6%	40%	50%	
I do not have enough experience/training to engage in outreach activities.	1%	12%	14%	29%	44%	
Lack of established networks with govern- ment, private sector, and community.	17%	47%	17%	14%	5%	
The university structure is not adapted for out- reach activities.	10%	32%	22%	27%	9%	
University norms, culture, and procedures do not support outreach activities.	5%	20%	20%	34%	21%	
Curriculum of the faculty does not support outreach activities.	6%	40%	14%	20%	20%	
Inadequate infrastructure facilities for outreach activities.	10%	42%	16%	23%	9%	
Geographical location of the university does not support outreach activi- ties.	9%	17%	18%	34%	22%	
I am not aware of the opportunities to engage in outreach activities.	23%	33%	19%	20%	5%	
The university does not have a policy toward outreach engagement.	8%	31%	26%	24%	11%	
There is no central mechanism/office to provide support and coordination.	27%	33%	15%	15%	10%	
Average	11%	28%	17%	25%	19%	

Table 5. View on Extent of Influence of Resources for Outreach					
Statement	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Financial resources are not enough to engage in outreach activities	19%	44%	19%	10%	8%
Human resource is not available to adequately engage in outreach activities	27%	32%	19%	6%	16%
Physical resources are not available to adequately engage in outreach activities	12%	40%	26%	16%	6%
Average	19%	39%	21%	11%	10%

ties would differ in extent of resources and should be encouraged and be given opportuinfluence on outreach activities. However, nities to engage in more outreach activities based on the results of the Mann–Whitney than they are involved in at present. U test, only physical resources showed a statistically significant difference (U = 1541, p = 0.048) between the two types of universities. Well-established universities may have more physical resources than the Among the respondents, 56% were male newly established universities. Accordingly, a lack of physical resources could be a strong influence on outreach involvement of academics in newly established universities. Therefore, priority should be given to newly established universities in terms of physical assumed that time availability and cultural resource development.

Grade and Outreach Engagement

It was assumed that academics from all designation categories may be involved in outreach activities similarly. However, according to ANOVA results (F = 3.243, p =0.006), there was a statistically significant difference between the different designations and outreach engagement. The results of Duncan mean separation are given in Table 6. There was a gradual reduction in the number of outreach activities conducted by the academics from senior professors to probationary lecturers. The probationers are probably less engaged in outreach because they are within their first few years in the system as lecturers and thus are concentrating on their teaching roles, higher studies, and research. Their opportunities also may be limited. As an academic gets into senior positions, they also have more In contrast, Ecklund, James, and Lincoln links, contacts, and responsibilities to cater to national and regional problems.

As the results indicate that the outreach en- for the present study was in Sri Lanka spegagement of junior academics is lower, they cifically. The results suggest that in design-

Does Gender Matter in Outreach **Engagement?**

academics and 44% were female. In general, women have a dual role to play as a professional and as a mother or a wife, and gender stereotyping may sometimes constrain the women scientists. Thus, it can be constraints limit the women academics in engaging in outreach activities. A study conducted by Dudo (2012) also identified no links between a scientist's gender and his or her level of public communication activities. However, he indicated that gender may have an impact in public communication activities of scientists and that this possibility requires additional scrutiny. Supporting this idea, Roten (2011) reported that the attitudes toward public outreach and engagement are the same among men and women scientists, but such activities are performed significantly more often by men scientists than by women scientists. Similarly, in this study as indicated by the ANOVA model (F = 17.558, p = 0.000), males had a significantly greater involvement than females in actual outreach activities (number of activities conducted during the past 3 years).

(2012) reported that women scientists are markedly more involved in outreach work than men. However, the context examined

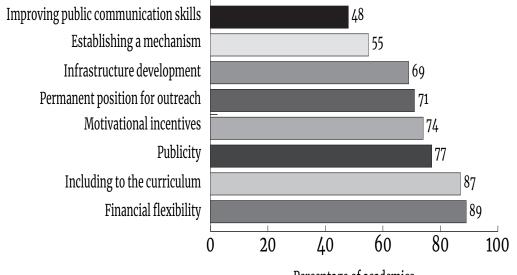
Table 6. Mean Value for Outreach Activities Engaged in by Academics According to Their Designation					
Designation	Mean	SDE			
Senior professor	56.400	15.215			
Professor	45.235	8.252			
Associate professor	23.333	19.643			
Senior lecturer I	24.227	7.254			
Senior lecturer II	18.587	5.016			
Lecturer confirmed	9.667	13.890			
Lecturer probationary	6.680	6.804			

ing and developing strategies to improve the to the universities' bureaucratic financial outreach engagement of men and women management systems. It was also menscientists, known gender differences should tioned that a considerable percentage of the be taken into account. The present study money has to be given to the university as suggests that women academics should an administrative fee. be more encouraged to engage in outreach activities.

Suggestions to Improve Outreach Engagement

gestions to improve outreach engagement. in the academic program. As shown in Table Figure 3 illustrates that 89% of academics 4, 46% of academics agreed or strongly in this study highlighted the need for finan- agreed that the curriculum does not supcial flexibility in universities for engaging port outreach engagement; another 25% in outreach activities. It was revealed that gave a neutral response. Including outreach it is difficult to utilize money received from activities in the curriculum is important to outside organizations for outreach activi- promote outreach engagement not only of ties due to strict financial regulations and academics but also of the students by enprocedures of the university. For example, hancing their opportunities for exposure to it takes a long time to obtain approvals due real-world experiences.

About 87% of respondents proposed including outreach as a component of the curriculum to improve outreach engagement of the students as well as the academics. This suggestion would help to make outreach It is important to look at academics' sug- engagement compulsory by incorporating it



Percentage of academics

Figure 3. Suggestions of the Academics to Improve Outreach Engagement

gested by 77% of the responding academ - than 5% of their working time on outreach ics, who claimed that the community and activities. More importantly, the majority industry were not aware of the outreach is either dissatisfied or highly dissatisfied arms/programs of the faculties. The sug- with outreach activities in comparison with gestion of Self, Foster, and Sauser (1995) teaching, research, and administration; to look at outreach as a "service industry" indicating a need for more administrative and adopt the "marketing" concept is important in this regard. Establishment of new linkages and creating more demand from outside organizations are thus important. Also significantly, 74% of the academics in the study sample stated that it is beneficial to improve motivational incentives.

A fully devoted permanent position to coordinate the outreach activities of the faculties lowest number of interactions occurred with was suggested by 71% of respondents, and industries in comparison to the involve-69% perceived that it would be important ments with government institutes and the to develop the infrastructure facilities of general public. the faculties in order to facilitate outreach engagement. Specific suggestions included developing laboratories and equipment, as well as transport facilities. Such development may be mostly needed by the newly established faculties, given that human resources and other infrastructure facilities vary across the faculties. The need for an outreach mechanism was suggested by 55% of the academics. Only one of the faculties of agriculture had three established outreach centers/units. Interestingly, 48% of the responding academics suggested improving the interpersonal and public communication skills of the academics, including writing for newspapers, public speaking, and communication skills in electronic media such as radio and television.

Consideration of the above suggestions in planning and implementation of strategies to improve outreach activities of the faculties of agriculture would be of immense importance to strengthen outreach programs carried out by these faculties in the universities of Sri Lanka.

Implications

The academics of the faculties of agriculture in the universities of Sri Lanka are engaged in outreach activities to a limited extent and contribute in some measure to agricultural knowledge and technology dissemination to the community, industry, and various government departments, authorities, and institutes. However, in general, their involvement is not at a satisfactory level. The average number of activities per academic per year was 2.9, and the major-

Publicizing outreach activities was sug- ity of questionnaire respondents spent less support and coordination.

> The most common type of outreach activity was trainings (32%) conducted for the community, which includes farmers, schoolchildren, and the general public (Figure 1). Other outreach activities were workshops (24%), seminars (21%), consultancies (15%), and development projects (8%). The

> The general mechanism of the academics for engaging in outreach activities has been through personal or informal contacts. Only one faculty has three well-established separate centers for outreach. Well-established universities engaged more in outreach activities than newly established universities during the period 2012–2014. Furthermore, more academics in well-established universities reportedly were "highly satisfied" or "satisfied" (69%) with outreach activities in comparison to those who were in newly established universities (23%).

> Academics are generally confident enough in their competencies to engage in outreach. The study also revealed that, in the sample population, male academics showed a higher engagement in actual outreach than female academics during the period 2012-2014.

Recommendations

Recommendations for the Department, Faculty, and University Level

Measures should be taken to improve the general level of satisfaction and motivation of academics to engage in outreach activities. There should be a mechanism for recognition and rewards for outreach engagement, such as adequate recognition in promotional guidelines and in awarding research and development grants.

Promotion of favorable attitudes of academics toward outreach engagement and subjective norms would be beneficial. Motivational activities, such as formal and

informal approvals for such outreach activi- Recommendations at National and ties and appreciation of services rendered **Policy Level** by the academics from superiors, including heads of the departments, deans of the faculties, and vice chancellors of the universities, are important. Female academics should be motivated and encouraged more, as their engagement in outreach is low compared to that of males.

Outreach, too, should be an integral part of the academic curriculum of the universities. There should be a mechanism to facilitate the interactions of all the academics for outreach engagement, in contrast to the current predominance of working alone according to personal or informal contacts and agendas. Although the UGC has identified outreach as a mandate of universities. the academics are not much aware of that. Therefore, it is important to make them aware that outreach is an expected activity. All academic staff members should be aware that community engagement, consultancy, and outreach activities are part of the evaluation criteria in reviewing higher educational institutions in Sri Lanka. This would act as an additional motivating factor for academics to be involved in outreach activities and for faculties to promote outreach.

It is important to have an overall clear mission in the faculties for outreach engagement. It would be beneficial to have a formal outreach mechanism in faculties to promote outreach activities while providing opportunities to all stakeholders for joint efforts in learning, sharing knowledge and experience, and, especially, in solving the problems faced. Fully devoted outreach arms should be established at faculties or universities to facilitate this process. A permanent academic-administrative position should be established to coordinate ing a permanent position for outreach, and the activities, as the academics are busy developing necessary infrastructure faciliwith their teaching, research, and obligatory administrative work. However, success not only at the university level, but also at does not solely depend on having a separate outreach arm or a dedicated staff member for outreach. The personal characteristics of the staff members are important determinants of success. The staff should be Structural and policy arrangements of the carefully recruited, especially when there universities, government institutes, and is a permanent position for outreach, be- industries to facilitate outreach activities personal characteristics such as leadership, identify the strengths, weaknesses, and opnetworking ability, public relations and portunities for development through incorcommunication, and, above all, motivation, interest, and commitment.

Designing strategies and preparing guidelines to improve outreach activities of the faculties of agriculture in the state universities in Sri Lanka at the national and policy level is of utmost importance. The outreach mission of the faculties of agriculture should be clearly defined. At present, the universities perform their outreach activities on their own without a clear integration with the national agenda. Therefore, the faculties of agriculture should be included in the formulation and execution of national research and extension strategies. Strategies should not overlap and conflict with already functioning external mechanisms, but should be mutually beneficial.

Adequate infrastructure should be developed to facilitate the outreach process, especially in newly established faculties of agriculture. Flexible administrative procedures in financial handling for outreach activities and possible strategies to finance the outreach activities should be explored. Also, establishing a clear innovation patent policy on the ownership of inventions originating in universities is important to encourage innovations by academics.

Many of the above recommendations would also enable taking into consideration the suggestions given by academics during planning and implementation of strategies to improve outreach activities of the faculties of agriculture in the state universities of Sri Lanka. The main suggestions were financial flexibility in universities for engaging in outreach activities, including outreach as a component of the curriculum, popularizing outreach activities, improving incentives to engage in outreach, establishties. These concerns should be addressed the policy level at higher forums.

Recommendations for Future Studies

cause success could be largely dependent on of academics should be studied in detail to poration and coordination with each other. In-depth studies are required to investigate the activities in detail in relation to inputs

will also be useful in understanding specific also important to investigate the outreach situations, problems, and solutions. This engagement of students in relation to acastudy mainly focused on outreach activi- demic programs and extracurricular activities of individual academics. However, it is ties. important to assess the involvement and mechanisms of different units/centers/ departments and faculties for a comprehensive understanding about the outreach

and their outputs and impacts. Case studies activities of academia. Furthermore, it is



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Evaluating the Complexity of Service-Learning Practices: Lessons From and for **Complex Systems Theory**

Sarah Burton, Sharon Hutchings, Craig Lundy, Andrea Lyons-Lewis

Abstract

This article examines the intersection of service–learning with complex systems theory. It is based on a research project we undertook to explore whether complex systems theory might be useful for better understanding the dynamics of service-learning practice and thus for assisting in the design, running, and evaluation of service-learning projects. Additionally, we were interested to find out whether the specifics of our service-learning experience and knowledge, what we refer to as "critical service-learning," might have something of value to contribute to the interdisciplinary and ever-broadening paradigm of complexity studies. Our findings respond to these two tasks in the affirmative: We conclude complex systems theory can be of benefit to service-learning practice in a conceptual, operational, and strategic capacity. In instances where critical service-learning practice initially appears to be incongruent with complex systems theory, conversely these instances instead highlight precisely how service-learning could advance the analysis of systems in complexity studies.

Keywords: critical service-learning, complex systems theory, community engagement

whereby this term is said in the techni- best of our knowledge, this research is the cal sense given it by complex systems theory first to explore the intersection of CST with (CST)? This article will share the findings the knowledge and practices of servicefrom research we recently completed that learning. We believe there is much to be evaluated the complexity of service-learning practices in our university department. In addition to assessing the appropriateness of CST for understanding the dynamics of service-learning, our research also sought to (a) explore the extent to which the framework of CST could identify strengths/ weaknesses in our service-learning practice, leading to adjustments in practice, formation that could potentially enhance and (b) explore whether our experience our understanding of complex systems. We and knowledge of service-learning might would thus anticipate that there are many in turn have insights to offer the interdisciplinary paradigm of CST.

or those involved in the delivery of Although CST is by no means a new concepservice-learning, it is self-evident tual paradigm for assessing social-physical that this practice is complicated systems and phenomena, its use in serviceand complex. But could it be that learning and community engagement enservice-learning is "complex" vironments is still relatively novel. To the gained from this encounter. To begin with, CST has proven to be a powerful tool for assisting community-led transformation (Durie & Wyatt, 2013), and there is every chance that service-learning practice could benefit from drawing on these findings. In the other direction, the field of servicelearning has itself produced much knowledge about systemic processes and transand varied contributions that could be made in this area to cross-pollinate CST and

this article is not to provide a definitive and amount has been written on what servicecomprehensive account of the CST-service- learning is and how it could or should be learning nexus; rather, we hope that in time defined. Reviewing the details of this litit will be viewed as the opening salvo of a erature is beyond the scope of this article. long and fruitful exchange.

For the service-learning practitioner this article is intended to open up one new and potentially useful avenue for theorizing and reflecting on practice, with the aim of developing and validating that practice. The very complicated and complex sets of relationships and structures involved in We began service-learning in our facilitating service-learning are understood and deeply felt by all of us working Trent University (NTU) in 2013 with a small in this field and have indeed been theorized pilot of two community partners and two elsewhere (see, for example, Osman and small groups of sociology students. The fol-Castle's [2006] use of critical education lowing year it became credit bearing and theory and McMillan's [2011] work using core for three courses in the department activity theory). What a complex systems lens might bring to us is a way of systematically describing, naming, and understanding our service-learning practice and helping others—such as senior administrators and managers, but also students—to appreciate this complexity too. Some of ment to social justice, and not simply a the principles of CST had immediate and deep resonance for the current authors as service-learning practitioners. As the article will explore, key characteristics of complex Pirbhai-Illich, 2015; Mitchell, 2008; Mooney systems—such as their open, emergent, and nonlinear nature—appear to align well with the features of service-learning. Aside from motivating the research, this apparent synergy indicates why and how CST can be useful for the analysis of and approach to service-learning.

After providing some contextual background to our service-learning endeavors and the paradigm of complex systems theory, the article will outline our research activity and the key findings—namely, the role that value alignment, structures and systems, and time and rhythm play in the success or failure of service-learning projects. This will be followed by an analysis of the "complexity" of service-learning at Nottingham Trent University (NTU), after which we will engage in a more reflective discussion about the lessons from CST for service-learning, and vice versa.

Background

Critical Service-Learning at Nottingham Trent University

As practitioners and scholars of service-

service-learning. Thus, our intention with learning will be well aware, a significant Nonetheless, it is necessary to provide a brief overview of how we understand and practice service-learning here at Nottingham Trent University, so as to give some context to our recent engagements with complex systems theory and the research this article is based

> Department of Sociology at Nottingham (BA Sociology, BA Criminology, and MA Sociology). Since the pilot we have moved deliberately toward developing "a critical approach that is unapologetic in its aim to dismantle structures of injustice" (Mitchell, 2008, p. 50). In our view, this commitfocus on student transformations, is key to differentiating critical from traditional service-learning (Butin, 2015; Martin & & Edwards, 2001). This intentional direction is in response to both our disciplinary focus and the significant issues evident in our city. To highlight some of them, Nottingham is ranked the eighth most deprived district in England out of a possible 326 (Department for Communities and Local Government, 2015). Nottingham also has the lowest household disposable income in the United Kingdom, high levels of hate crime, and increasing levels of child poverty (End Child Poverty, 2018). Our city is home to two of the largest universities in England, yet statistics also show that one suburb of Nottingham has the lowest number of young people applying for university places in the United Kingdom. This rather bleak picture of our city sets the justification and context for our service-learning activitieswe want to work in solidarity and toward change with our community. As a result, service-learning for us is less a pedagogical practice and more an active partnership with the community working on the pressing issues in our city.

> In making these claims we maintain that the student experience is not depoliticized. In our service-learning we ask students to

exists in the first place and to do so within we argue, should not "fill" core business a disciplinary framework of public sociology nor draw resources from the organization. and public criminology (Barrera, Willner, Rather, through projects agreed on with the & Kukahiko, 2017; Butin, 2010; Mitchell, partner, students undertake work that the 2008; Petray & Halbert, 2013). In attempt- organization would otherwise not be able to ing to ensure that our service-learning do, leading, we hope, to transformations in does not reinforce privilege, the establishment and promotion of shared values that can guide practice takes precedence in our work (Butin, 2010; Jerome,2012; Ledwith, 2015; Marullo, 1999; Mitchell, 2008). These values center on working in partnership on authentic community needs, mutual and reciprocal benefit, critical reflective practice, and creating opportunities for a more porous and dynamic university (Duncan, Manners, & Wilson, 2014). Furthermore, we hope to enhance disciplinary connections and for students to understand root causes from their own experiential perspective. The pedagogical aspect of our service-learning is thus encompassed within a broader framework of social justice and activism that operates through collective endeavors, thus challenging the dominant discourse of "the student experience" as being individualized and consumerist.

In practice what does this look like? In the current academic year, 2018–2019, this involves around 280 students across the three courses, working with a range of community partners. This number is set to rise to approximately 350 next academic year. All of the community engagement and partnership work, academic preparation, and the matching of these two parties takes place within the department and is done by two academic staff, one of whom is part time. Throughout the duration of the service, workshops and seminars are supported by six additional colleagues. Students work in groups of varying sizes in partnership with not-for-private-profit organizations across the city on social justice projects identified by the community partner. Numbers of partners vary each year but average 25, which generally equates to the same number of projects. The actual service varies according to the organization, but examples might include undertaking a focused research project on an issue—for example, understanding hate crime across the city, helping at a community kitchen in a neighborhood, and working with activist groups on issues such as street harassment or homelessness in the city. Other projects have been more ambitious and have an ongoing impact not just on local communities

unravel the root causes of why their service but on national debate and policy. Students, the city and our students.

> The next section will attempt to briefly explain complex systems theory. As noted in the introduction, for the current authors there was an immediate recognition of some of the elements of CST in the practices of service-learning. That said, we recognize that complexity theory can be challenging when first encountered, particularly in the abstract. To assist in this regard, examples of the principles outlined below will be explored in relation to service-learning in the Findings and the Further Discussion sections, in contexts that may be more familiar to the reader.

Complex Systems Theory and Community Engagement

Complex systems theory, or complexity theory, is a theory that describes how phenomena emerge through the interaction of elements in a system. Initially developed in the natural sciences to explain and model biological and physical change, CST has since been appropriated and further developed by other fields across the social sciences and humanities. For example, in economics CST has been used to better understand market fluctuations (Beinhocker, 2007), and in health policy the principles of complexity have been deployed in order to improve community health outcomes (Durie & Wyatt, 2007; Hawe, 2015). Other examples include the use of CST for assessing the dynamics of systems and problems that involve both human and nonhuman components, such as weather systems and traffic flows. CST has been closely affiliated with chaos theory and nonlinear dynamical systems theory; however, it should be noted that CST is a broad and contested paradigm lacking consensus as to its precise definition. In other words, CST is not a formalized system of axioms and theorems, nor can its foundational principles be confined to a narrow field of scientific theory. That being said, researchers who draw from and apply CST generally agree on the following:

 A complex system is composed of a large number of elements that interact reciprocally with each other and their environment, which is to say that elements within a complex system are coadaptive or coevolving.

- Following from the above, a complex system is an open system (rather than closed) that continually responds to changes in the environment, just as the environment itself adapts to changes among its elements (Durie & Wyatt, 2013).
- As such, a complex system cannot be reduced to the sum of its component parts, for it holds the potential to produce new phenomena and characteristics that are emergent from the dynamic relations of elements within the whole and their environment.
- These dynamic relations are nonlinear as opposed to linear, which is to say that (a) the system has a disproportional relation between inputs and outputs, and (b) the system disobeys the superposition principle, where the net response caused by two or more stimuli is the sum of the responses that would have been caused by each stimulus individually. As a consequence of this, a small event can lead to a big change—the so-called butterfly effect, in which the flapping of a butterfly's wings leads to wideranging systemic changes.
- Due to the open, emergent, and nonlinear characteristics of complex systems, there is limited predictability as to how the system will change over time (with such knowledge often dependent on the extent to which facets of the system can be mapped onto linear schema that serve as temporary estimates).
- Nonetheless, complex systems are path dependent or historically dependent, which is to say that the specifics of a developmental progression play an active role in determining the outcome of a complex evolution.
- Operative in complex systems are negative and positive feedback loops, the former of which return the system to its initial conditions (by making adjustments to cancel

out emerging divergences), and the latter of which amplify divergences.

• When divergences within a complex system are amplified, taking that system far from equilibrium, the system is said to be at the *edge of chaos*—that is, in a region between the prior ordered state of the system and terminal chaos. In this region, self-organization occurs through the exploration of *adjacent possibles*, leading to the emergence of a new schema—a *phase transition* (Kauffman, 2000).

When assessing the complexity of systems, it should be borne in mind that complex systems will rarely if ever display all of the above characteristics in their fullness at every moment. This is an important point to make, for it reminds us that complex systems transition through different phases and the absence of any particular characteristic from the above list at a given time does not necessarily mean that the system is noncomplex. For example, a complex system may experience a long period of stability with minimal emergence, after which an event sparks a process of divergence leading to systemic change. An assessment that is restricted to the period of stability might therefore incorrectly conclude that the system did not display characteristics of complexity.

A recent paper by Durie, Lundy, and Wyatt (2018) has demonstrated the significance of attending to such nuances when evaluating the complexity of social systems. In their study of community engagement projects that involved partnerships between academics and people/institutions outside academia, the research results initially appeared to be contradictory: Although some successful partnerships clearly exhibited characteristics of complexity, others did not. With further reflection, however, the researchers accounted for this discrepancy by taking into greater consideration the particular phase that projects were in when exhibiting complex or noncomplex characteristics. As they concluded, CST is indeed a valuable paradigm for evaluating and designing community engagement partnerships, provided that a multiphase model is employed that attends to the differences between (1) the *engaging phase*, in which relationships and parameters for engagement are developed; (2) the project phase, in which the now-constrained project is carried out or delivered; and (3) the *follow-on* makes a successful service-learning project. phase, in which evaluation of the completed project and renegotiation of potential future engagements occurs. According to this multiphase model of engagement, the first and third phases display characteristics of complexity, whereas the second does not in projects that are "successful" (Durie et al., 2018, pp. 127–130).

that draws on CST, and in particular the work just described, our research sought to explore whether CST might be of use to service-learning and vice versa. For example, could the three-phase model proposed by Durie et al. (2018) help us to understand and potentially reshape some of our servicelearning practices? And in the other direction, might the principles and experiences of service-learning at NTU provide lessons, or at the very least additional examples, that are of use for our appreciation of social complexity?

Methodology

The research might best be described as employing a case study design, with the case being NTU's service-learning provision and the "embedded units" (De Vaus, selected projects that we perceived to have 2001) being community partners, students of different levels and disciplines, and staff. on anecdotal evidence—as well as having Structural elements of the service-learning a variety of project trajectories. Students, provision are also units to be analyzed, such community partners, and academic staff as assessment types and timings. Including involved in each project were interviewed, the widest range of embedded units, we providing a holistic understanding of the aim to understand more than "something processes involved in each case. qualitatively different from, that which any constituent element of the case could tell us" (De Vaus, 2001, p. 221). The inclusion partners and focus groups with each stuof different elements means that a variety of different methods may be appropriate and necessary (De Vaus, 2001), and in our research we included one-on-one in-depth interviews, focus groups, and a participant validation event.

An important strength of case studies is staff who had taught them and graded their their ability to be used for theory testing, work. A focus group of the academic staff which is a central aspect of our research. who had developed and taught the various De Vaus (2001) claims that they "seek to service-learning modules was facilitated by achieve both more complex and fuller ex- one of the current authors who sits outplanations of phenomena" (p. 221), en- side the service-learning team. Finally, a abling both ideographic and nomothetic negotiated feedback session was organized explanations. This is important for us, as to share the initial findings of the project it will allow us to identify unique elements with the research participants, allowing for of our practice as well as to consider what an evaluative discussion that fed back into we can generalize about complex systems the analysis of the data and led to refining theory and its value for understanding what the cross-cutting themes. The approval of

Case studies are intended to study "wholes rather than parts" (De Vaus, 2001, p. 231), where there is a small number of cases with a large number of variables. The application of CST to our service-learning means that we are conceptualizing our service-learning as a system, as a whole, and are keen to explore how the large number of variables Building on research in the social sciences or elements interact to produce a successful outcome or not.

> Within the larger case, three distinct service-learning projects, embedded cases, were selected for analysis: one BA Criminology project, one BA Sociology project, and one MA Sociology project (Table 1). As well as spanning the three courses in our department where service-learning is a core element, the three cases were selected using a form of theoretical sampling, allowing us to access the social processes of interest to our research, and this led to the selection of cases or participants "where the phenomena in which the researcher is interested are most likely to occur" (Henn, Weinstein, & Foard, 2009, p. 182). As we were seeking to understand whether CST could help us to understand what makes a successful service-learning project, we achieved various levels of success-based

> One-on-one interviews with community dent project were conducted by a researcher who was not part of the teaching team. We were concerned with preexisting relationships and the extent to which they might cloud the research relationship and, in the case of the students, the power imbalance between them and an academic member of

Table 1. The Case Studies

Project A (BA Criminology)

This project involved seven students working with an anchor organization in a Nottingham neighborhood on a project designed to help new arrivals to the city to integrate better with the help of a "welcome pack." This involved interviewing members of the community for whom the welcome pack was created. The project's trajectory was smooth, with few obstacles or unexpected events; the project outcomes were achieved with all the information for a welcome pack researched and pulled together by the students. The community partner and the students perceived it to be a success.

Project B (BA Sociology)

This project involved six students working with a very small community organizing project, seeking to promote social action in Nottingham neighborhoods. The project aimed to address the divide between younger generations and older generations of social groups in Nottingham, challenging the perception that older people and younger people have little in common and therefore have little to offer the other age group. The output of this project was to hold a meet-and-greet event across all age groups whereby life stories were shared with one another and commonalities discussed across the generations. Numerous obstacles occurred during the project phase: For example, the sole employee of the organization did not live in Nottingham and could not meet the students for the first few weeks of the project phase. The outcome desired by the community partner was not met in that the meet-and-greet event did not take place. The project was perceived to have failed by the partner and by the students.

Project C (MA Sociology)

This project involved working with an organization run by and for migrants and refugees to Nottingham, aiming to support their integration. This was part of a wider collaborative project with other community partners who were producing multiple outputs for policy change. One of the MA students, X, already volunteered there and took the initiative to develop the service-learning project. It started as a solo project for her (most MA students do solo projects), with two other students being recruited partway through the project—which is not a standard trajectory. X was the lead student, mediating between the organization and the other students, with the latter never going to or meeting with representatives of the organization. The project was deemed a success by both the community partner and the students.

the School of Social Sciences Research Ethics ended—many interviewees commented on Committee was obtained prior to data gath- the importance of values, such as the values ering.

Findings

The data was subjected to two levels of thematic analysis: an initial level that aimed to articulate emergent cross-cutting themes and a second level that examined the data through the lens of CST.

Cross-Cutting Theme 1: Values

reflecting on their service-learning proj- undergo processes of divergence or converects—how they began, proceeded, and gence during the course of projects.

that motivated their initial involvement and/or guided their activity. For example, one student from Project A said that their reason for joining the project was that they identified with the people that the organization provided services for, and that they wanted to assist those in a similar situation. This indicates the significance of value alignment between participants in a project. It must be noted, however, that close value alignment is not always necessary for the success of a project, and it certainly does not It is perhaps to be expected that when guarantee it. Moreover, value alignment can These contrasting processes were borne out which was thoroughly successful, made in the projects that we examined, as shown use of meeting patterns initially formed by in Table 2. Project A, which was deemed the module timetable to ensure regular and successful by all participants, exhibited a familiar modes of communication. As for tight alignment of values from the early the partner organization, they brought to stages of the project and throughout, with the project well-established institutional no appreciable shift in the quality or close- structures for engaging with students, ness of their commitments. Project B also which were said to have greatly assisted the commenced with a close alignment of values smooth running of their project. The same that was maintained through the project; was the case for the partner organization however, it was agreed by all that the proj- of Project C, which had strong structures ect ended in failure due to a range of other in place prior to the engaging phase and reasons, including poor communication and systems for supporting the students. As the a loss of trust, leading to a lack of motiva- partner explained: tion. Unlike Projects A and B, the partner organization for Project C did not have a preexisting relationship with NTU, nor were they familiar with service-learning. But it so happened that this organization took value alignment very seriously and had established processes for ensuring that this occurred between collaborators prior to the commencement of the project. According to the participants in this project, the process of value alignment during the engaging phase of the project was central to their subsequent success.

[W]e interviewed them, because that's what we do and we know how to do that. Now I know how to work out who's a good student and a bad student, and we did that quickly with [X], we said she is a good student. I would say that it worked for us. . . . She was very honest from the beginning; she mentioned that . . . there was a passion although she had uni work, she was organised. (Project C partner)

Cross-Cutting Theme 2: Structures and Systems

The importance of structures and systems leading to its premature end. For example, to the functioning of the service-learning the initial meeting between students and projects was most evident, though in dif- partner was delayed by several weeks, and ferent ways. The students of Project A, when they did eventually meet, there was

As an organisation, as part of commitment, if we take on a student, we need to be prepared, we need to have a job for that student, we don't expect them to come here and start twiddling their thumbs because they don't know what to do. When they come here we want to know what they're going to do. How they will be supported and all of that. (Project C partner)

This project also benefited from one student serving as the liaison between the partner and student group, with regular meetings to brief both groups. This communication system emerged dynamically through the course of the project. Although it seems to have assisted the smooth running of the project, it would be difficult to generalize and recommend this system more broadly, since it seems just as likely that it could be a hindrance in other situations.

As for Project B, which was deemed a failure by participants, there was a distinct lack of structures for engagement between the students and partner. This appeared to hinder the progress of the project, ultimately

Table 2. Value Alignment Across the Projects						
Project A Project B Project C						
Successful?	Yes	No	Yes			
Values aligned in engaging phase?	Yes	Yes	Yes			
Shift in alignment during project phase?	No	No	No			
Previous experience with NTU service-learning?	Yes	Yes	No			

very little structure put in place to ensure dents accommodated this by shifting their the project's objectives were going to be met other work around—an outcome that the by the intended deadline. As the project dis- students were grateful for later in the year. integrated, the partner withdrew from the engagement, and the students turned their focus to ensuring that they were still able to complete the module by satisfying the assessment demands.

Cross-Cutting Theme 3: Time and Rhythm

All participants spoke of issues relating to time and rhythm and how this impacted the levels of success of their project. Participants spoke of "good time-keeping" relating to punctuality and meeting deadlines, being aware of and accommodating other commitments that students or the partner organization had, setting aside Project B operated quite differently from the time for certain elements of the project, two described above. Although the students and understanding the ongoing nature of the project's long-term aims. Establishing of the project, little progress was made on the "time" and "rhythm" at the beginning the actual work of the project. By the time of the project was crucial in ensuring that the students met with their partner, a patthe rhythm continued throughout.

For Project A, the members spoke of setting informal and unwritten ground rules very early on regarding punctuality and deadlines. Also, as the project went on, a rhythm developed that allowed the students to assess the project structures and flexibly accommodate any changes. For example, the students realized that meeting physically every week was unnecessary and that communication could instead occur through online updates and scheduled meetings when needed. Another element that aided this flexibility without hindrance was the partner's knowledge and appreciation for the students' additional workload outside the project.

So, in terms of me managing the project it was me managing their workload and making sense of that with them but also making sure that we were fulfilling their university criteria . . . it was important that they felt that they were being successful both in their studies and in doing a project that had some meaning to it. (Project A partner)

Project C also had positive experiences of time and rhythm, but for them this arose from the flexibility and alteration of time and rhythm throughout the project. As an example, on two occasions the deadline for this project was pushed back, but the stu- Service-learning at NTU is clearly com-

With service-learning as well, there were deadlines that we had to produce our poster presentation and then was it two days after that something needed to be submitted to [teaching staff member], what we'd actually done. Ours had already been sent off and everything created but for other people, some of them are still probably doing service-learning now having given only a small brief. (Project C student)

spoke of bonding a lot in the first few weeks tern of inertia had already set in, making it difficult to generate momentum. In their words, the project took "too long to begin" and was replaced with a sense of "I'd rather just get it done with now." The partner then reinforced and solidified this negative sentiment:

So if I was to show you the dates [of e-mail communication] you'd see how derailed it became right from the beginning because only one person sent me back the first ya know research task. So then where . . . what am I supposed to do, follow them all up individually? Well that's just going to eat up all of my time, and I'm not going to do that, you know? (Project B partner)

Although the three themes identified in the research findings came through very strongly individually, we also saw overlaps and interlays between them. Figure 1 uses a Venn diagram to illustrate examples of this. For instance, issues of time and rhythm overlap with systems and structures in instances where community groups and the university operate according to different calendar and/or funding cycles (e.g., the academic year and grant timelines).

The Complexity of Service-Learning at NTU

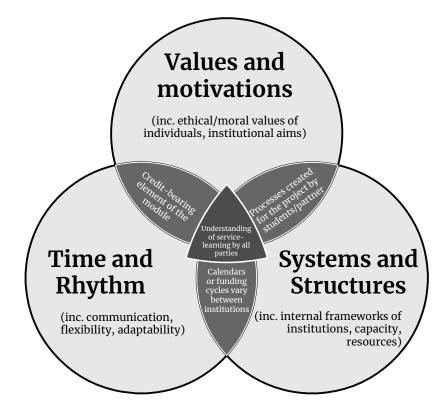


Figure 1. The Three Main Cross-Cutting Themes

complex systems theory? At the descriptive in Project C could be thought of as one of level the answer is yes, in a variety of ways. emergence, this entire process was guided When each project is assessed as a system, by a predetermined structure/system creit appears to us that each is composed of ated by one party and imposed on the other. numerous elements that interact recipro- Indeed, service-learning more broadly could cally with each other and their environment be said to often operate in this manner, in a manner suggestive of coadaptation. It most explicitly when it comes to the classwould be equally accurate, and we feel un- room learning that students must navigate controversial, to say that each project was in order to take part in service-learning an open system that displayed emergent projects. Similarly with Project A, much behavior, limiting as a result the level of of its success was due to the fact that the predictability. The extent to which these partner came to the engagement with precharacteristics were present in the projects determined structures/systems and expertly examined, however, varied. Moreover, the managed the relationships with students so more successful projects appeared at first that everything went according to plan. The to be less open and exhibit greater predictability.

At this point we must draw attention back to the research conducted by Durie et al. (2018). In accounting for these results, Durie et al. concluded that successful projects often exhibited noncomplex features in the project phase of the engagement but were usually complex in the prior engaging phase and subsequent follow-on phase. Our data, however, appeared to suggest some results to the contrary. For example,

plicated, but is it complex in the sense of although the process of value alignment students no doubt played their part in the success of this project, but it would be difficult to say that this project was an overt example of CST in action. This example, to be sure, does not invalidate CST, but it does require that one take a broader view of the system and its history. To illustrate, although the engagement between partner and students often appeared to be noncomplex, this set of relationships itself sits within a larger set of connections between the service-learning staff and the partner/

of course has a history. When seen from complexity, and projects could perhaps be this processual long view, stretching back to usefully designed accordingly. the initial interactions between the servicelearning staff/program and the partner, it becomes easier to see how the phenomena of a stable and productive relationship and set of systems was the emergent result of coadaptive interactions. The current state of the system could also now be said to exhibit negative feedback loops that maintain the status quo and indicate the path-dependency of future engagements.

As for Project B, CST would again seem to provide useful explanations for the dynamics of its unfolding. For instance, we could ration prior to their delivery, but it would say that the system was nonlinear, with seem to us that the preparatory work rea disproportional relation between inputs quired for service-learning—in the form of and outputs—for example, the 3-week developing new partnerships, maintaining/ delay in the initial meeting between partner and students that produced a terminal of projects for students—is exceptionally tailspin. The project could also be said to have experienced a positive feedback loop to a standard module that can be repeat that amplified divergence leading to chaos. taught with minimal change to the con-That being said, one could argue that this tent). Because of this, the underappreciation project suffered because it failed to take on of the engaging phase of service-learning board some of the lessons from CST, such work has led in our case to an unsustainas the importance of reciprocal interaction able situation that not only increases the in the early stages of the engagement (the likelihood of staff burnout but also places engaging phase) that lead to the emergence of a well-functioning system with shared As for the follow-on phase, if this were values and practices.

This brings us to a reflective consideration of the lessons that can be potentially learned from CST for service-learning and vice versa.

Further Discussion

Lessons From CST for Service-Learning at NTU

It would be a stretch to say that our recent engagement with CST has completely revo- Aside from helping to highlight the resourclutionized our understanding and practice ing and capacity issues of service-learning of service-learning. Nevertheless, we have provision, our encounter with CST has also found the process to be productive in a encouraged us to think more deeply about number of ways. To begin with, CST, and in the ways in which we as a team equip our particular the multiphase model for its ap- students with the resources to successfully plication devised by Durie et al. (2018), has deal with complex and difficult situations. assisted us in our thinking about the dif- By recognizing that what students experiferent phases of service-learning work and ence may not just be messy and "unprethe various dynamics therein. The data from dictable" (Deeley, 2015) but might also our research may have presented contrast- take them "to the edge of chaos," it raises ing dynamics within each phase, as opposed questions about how we support students to a shared pattern of dynamics across the through this experience. Prior agreement on projects, but the more significant lesson we shared values among the people involved draw from this is that different phases of a in a project can no doubt be of assistance

students—and this network of connections project will display different dynamics of

A further, and no less important, effect of the multiphase model is that it has allowed us to explicitly name and point to these phases when discussing service-learning with colleagues and management. In our experience, adequate resourcing of servicelearning has been an ongoing struggle. This situation has been exacerbated by a lack of recognition for the vital work that is done in Phases 1 and 3 of service-learning—the engaging phase and follow-on phase. All university modules of course involve prepaupdating existing ones, and creating a roster high year-on-year (compared, for instance, the service-learning program in jeopardy. given greater attention, it would allow for successful projects and partnerships to be more effectively captured and built on, thus improving sustainability and mitigating the amount of work required in the subsequent engaging phase of the next cycle. It goes without saying that the service-learning provision, and the benefits from it that are enjoyed by all those involved, would be much improved if all phases of the servicelearning cycle were further recognized and resourced.

need to recognize the benefit that clear are particularly important to address given service-learning process. Although this is, blindness to anything but the project phase the point is not that structures and systems adequate resourcing for the engaging and should be created and imposed in order to follow-on phases. eliminate the effects of complexity; rather, their use is for preparing participants to deal with complexity in a way that maximizes positive "sayings, doings and relatings" (Kemmis, 2009). Moreover, CST can help CST has proven useful for spurring conthose involved in service-learning activities structive reflection on the nature and to critically reflect on their sayings, doings, and relatings, and also recognize the impact that these might have had in their project trajectories. When combined with the above lessons from complexity, this means three things in terms of our practice:

- giving students a very clear framework for their projects within the multiphase model;
- introducing students to the CST paradigm so that they can see how complex systems are composed and anticipate disequilibrium; and
- providing students with a very structured training process in reflection, using, for example, the DEAL model of reflection developed by Ash and Clayton (2009), so that if or when students approach the edge of chaos in a service-learning project, they are equipped to analyze the specifics of their development progression and how that has determined or conditioned the outcomes they are experiencing, thus putting them in a stronger position to explore adjacent possibilities and to bring the project back to equilibrium.

A final lesson from CST for service-learning that we would like to briefly mention concerns the broader education context: How in most cases (though not all) established does a practice that we claim is complex prior to any actual service-learning activity. and potentially chaotic sit within the cur- These features would at first appear to be rent UK higher education landscape that outside, if not antithetical to, the paradigm is so focused on the metrics of measuring of CST. It may not matter to CST whether the student experience? How does service - the system under examination is human or learning perform in such metrics, and what nonhuman, fascist or democratic, but it cerrisks are service-learning staff exposing tainly matters to critical service-learning. themselves to by taking on this singular and Critical service-learning therefore poses complex practice? If compulsory university- this question to CST: Whence the ethicowide evaluation tools are administered at political?

in times of difficulty; however, as our data the point when students are at the edge of demonstrated, it is not a sufficient criterion chaos, what price does the service-learning for success. Alongside values we therefore practitioner pay for this? These concerns structures and systems can bring to the the comments above about organizational in one respect, an obvious thing to state, and the consequent difficulties of gaining

Lessons for CST From Service-Learning at NTU

dynamics of our service-learning experience. Although we would not go so far as to categorically insist that all service-learning activities do or should conform to the characteristics of CST, it seems sufficient to say that CST can help service-learning practitioners in their evaluation and shaping of service-learning activities. But at the same time, it has been equally apparent to us that service-learning, as we understand and enact it, contains insights that could be beneficial for the paradigm of CST.

The foremost among these insights involves the ethico-political dimension of what we refer to as critical service-learning. Due to its genesis in the natural sciences, CST purports to provide a description of reality devoid of ethical and political concerns. For example, the dynamic change of weather systems or organisms is neither "good" nor "bad"—it simply is. The processes and activities of critical service-learning, however, are eminently ethical and political. Indeed, it could be said that the ethico-political dimensions of critical service-learning are the driving force of all affiliated processes and that without it critical service-learning becomes meaningless. Thus we would say that values take precedence in critical service-learning processes and activities (even, and perhaps especially, in cases where there is disagreement about values). Moreover, in our experience these values are foundational and

certain values that are not up for negotia- in the mapping out and tracking of ethicorespect, and a commitment to social justice. systems. These values are formed prior to any interaction in complex service-learning activities, and they are more or less impervious to relational influence within the system. In addition, these values are not incidental, but on the contrary are of the utmost importance in shaping the nature of the complex system. In the absence of agreement on these values by all parties, it is unlikely that the partnership will continue. But one could also make the simple observation that systems with different ethico-political positions operate in different ways. For example, a fascist system functions quite differently from a democratic or anarchical system: They exhibit different levels/kinds of openness and closedness, hierarchy and flat organization, and so on. All this suggests that it is inadequate and/or naïve to In conclusion, it may be fruitful to remind are equally subject to the principal characteristics of CST. Surely it is of relevance if offer to the service-learning practitioner. the people involved in that system happen Previous research on community-unito already adhere to the values of openness versity engagement has benefited from and emergence through negotiation.

A further challenge to CST arises from this line of critique: Was it ever true in the first place to maintain that CST is devoid of ethics and politics? Could we not say, for instance, that the features of reciprocity, coadaptation, openness, limited predictability, and self-organization already align with, and indeed promote, a particular ethico-political stance? The claim that supposedly neutral scientific theories are not actually neutral is by no means novel. As it happens, advocates of CST have themselves effectively demonstrated how Darwin's theory of evolution was itself influenced by (and advanced) an underlying Judeo-Christian ethic (Goodwin, 1997). We should not then be surprised if CST also exudes an ethics and politics. It is for others more qualified than us to ascertain the inherent ethical and political character of CST; our more limited point here is that the ethico-political imperative of critical service-learning can usefully draw attention to the ethico-political aspects of CST. If advocates of CST wish to insist upon ethico-political neutrality, then more work will need to be done to convincingly establish this. But if, on the other hand, it is An important conclusion we draw from this accepted that the paradigm of CST is ethi- research is that the ethico-political impera-

Let us briefly elaborate on these elements cally and politically infused, and naturally of value precedence and priority. In our so, then we would suggest that the field of instantiation of service-learning, there are service-learning has resources for assisting tion: for instance, mutual benefit, mutual political considerations throughout complex

Conclusion

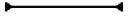
This is not the first attempt to theorize service-learning, nor is CST the only theoretical lens that might be brought to "this singular practice" (Butin, 2010). However, we feel that this endeavor has had considerable benefit for us as service-learning practitioners, enabling challenging dialogue and deep and critical reflection on our practices. As stated at the outset of the article, this is not intended as a definitive statement on what CST and service-learning have to bring to each other but is hopefully the starting point for future research and practice endeavors.

suppose that all systems involving humans the reader why we set out on this research endeavor and what we think the findings bringing a CST lens to understanding the processes involved there (Durie et al., 2018), enabling those involved to appreciate, for example, the multiphased nature of engagement. However, to our knowledge, service-learning had not been analyzed using complexity theory—service-learning being another form of community-university engagement, but one where a different quality or kind of relationship is added to the mix: namely, that between students and academic staff, and students and community partners. Although the principles of complexity theory are challenging in the abstract, when placed alongside servicelearning there was immediate resonance for the current authors. We were thus keen to apply complexity theory to our servicelearning practice in order to understand what we could learn from this paradigm, what it in turn could learn from servicelearning, and we also hoped that along the way a CST lens would facilitate an evaluation of what makes service-learning successful. Our research has indeed generated learning for us from CST, and conversely, we believe, from service-learning to CST.

tive of critical service-learning can usefully for projects to reach the edge of chaos and draw attention to the ethico-political as- to use this knowledge and experience to pects of CST. Service-learning is a deeply inform others involved, especially students. normative practice, with a strong and There is value for all stakeholders in recogexplicit value base around mutual benefit nizing that service-learning projects have and social justice. For this reason we had the open, emergent, and nonlinear characconcerns about deploying CST alongside teristics of complex systems, meaning that service-learning because of the former's there is limited predictability as to how the apparent apoliticalness. However, our re- project will unfold. We can prepare students flections have led us to question whether for this and, perhaps, as suggested in the CST really is devoid of an ethico-politico discussion above, provide them with very dimension (a point that could perhaps be structured reflective tools, equipping them made about many seemingly objective, sci- to analyze the specifics of their development entific paradigms). This suggests that there progression and how it has determined or is work to be done by advocates of CST to conditioned the outcomes they are expemore fully explore the ethico-political di- riencing, thus putting them in a stronger mension of this paradigm.

In turn, valuable lessons may be offered to service-learning from CST. It does not Finally, a further conclusion that we drew offer a panacea or assured path to success- from this research and that may be of beneful service-learning. What it has enabled fit to others working in the service-learning in this research, however, is the clear and field, is that CST allowed us to recognize systematic identification of how complex and name the multiphased nature of this service-learning operates. It seems that the form of community-university engageprospects for a successful service-learning ment, and to do so in conversations with project are significantly enhanced when the management about resourcing. All phases values and motivations of all parties align; of the service-learning cycle need to be when the systems and structures existing adequately recognized and resourced—the prior to or developed for the project work engaging phase, the project activity phase, in concert; and when the time scales, dead- and the evaluation or follow-on phase—if lines, and rhythms of all match up. But we service-learning is to be successful for all cannot control for all of these variables. involved and sustainable into the future. CST allows us to be alert to the potential

position to explore adjacent possibilities and to bring the project back to equilibrium.



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Specifics of Measuring Social and Personal Responsibility of University Students After Completion of a Service-Learning **Course in Slovak Conditions**

Alžbeta Brozmanová Gregorová and Zuzana Heinzová

Abstract

This study at a university in Slovakia asked two questions: (1) Does completion of a service-learning course lead to changes in students' social and personal responsibility and their attitudes toward community service? (2) Are personal and social responsibility and attitudes toward community service correlated? Service-learning and the third mission of the university are almost unknown in Slovak higher education, and likewise no relevant test instruments adapted to Slovak conditions currently exist. Consequently, we adopted a scale from abroad—Conrad and Hedin's (1981) Social and Personal Responsibility Scale (SPRS). We also used qualitative research methods. Compared to a control group, the service-learning students had statistically significant higher posttest scores in the Social Welfare, Duty, Performance of Responsible Acts, and Global Responsibility subscales. The research results revealed a need for new measuring tools that are sensitive to the specific context of service-learning implementation in Slovakia.

Keywords: service-learning, social and personal responsibility, attitude toward community service, higher education



nal focus to two main roles: education and new generation of professionals who can research. Universities thus are key actors in integrate their acquired academic qualities economic and cultural development and in and professional competencies with social the transformation into institutions com- responsibility and an active implementation mitted to industry and society in general. Today's universities are considering their role for society and their relationships The development of service-learning as with its constituent parts, institutions and well as civic engagement and the attitudes communities. This link between higher toward it are determined by historical, education and society is considered the third political, cultural, social, and institutional mission of universities. The third mission factors. These factors also greatly limit reconcept generally includes many of the search opportunities in this area. The aim of emerging requirements in relation to uni- our research was to find whether there were versities, in particular the requirement to changes in the students' social and personal play a more prominent role in stimulating responsibility and attitudes toward comthe use of knowledge to achieve social, cul- munity service due to the completion of a tural, and economic development. A strat- service-learning course, and find out if egy that has been successfully developed in there is any correlation between personal

he nature of higher education is the context of the third mission of universicurrently determined by several ties for several decades around the world is factors. Over the course of recent service-learning. Thanks to this strategy, decades, the interest of universi- universities perform their core missions ties has shifted from their origi- in a comprehensive manner and prepare a of their civic roles in society.

toward community service. The correla- on the Modernisation Agenda for Universities: measuring tool for measuring personal and (Commission of the European Communities, social responsibility in courses based on 2006). service-learning in an environment where service-learning is almost unknown and the discussion about the third mission of Analysis of the Three Dimensions of Third universities is just at its beginning. It has been a challenge to assess service-learning in Slovakia because the available methods, instruments, and terms do not resonate search institutions to transforming themwith the cultural and linguistic context because they have been normed on societies with different value systems.

Context of Service-Learning **Development in Slovakia**

Service-learning is a pedagogical strategy that links education and community engagement. Therefore, the context and possibilities for its development in Slovakia need to address the educational systems on the one hand, as in our study with its specific focus on higher education, and the form of solidarity and civic engagement on the other. The educational system and civic engagement in Slovakia are influenced not only by the country-specific historical, political, economic, and social situation, but also by policy at the European level. The directions set up by European institutions can play an important role in future service-learning development in a national context. EU countries are responsible for their own education and training systems, but the European Union helps them set joint goals and share good practices.

the Lisbon Agenda, in which utilitarian knowledge production and university tions contribute to innovation, and supportknowledge transfer were placed high on the ing effective and efficient higher education political agenda. Since the Lisbon Agenda, systems. universities are now perceived as key players in the debate about policy measures This emphasis on third mission activities to meet the target proposed by the Lisbon of higher education institutions should Agenda in 2010 (European Council, 2010) of be accompanied by appropriate data turning the European economy into "the and indicators to support the developmost dynamic knowledge-based economy ment of third mission activities. That is in the world." The European Commission why attention to the third mission of the sets the need of connecting universities and universities is given by academic discourse society in several communications, chiefly and by research. In 2015, a special edition the following: The Role of the Universities of the European Journal of Higher Education in the Europe of Knowledge (Commission was dedicated to the topic. The Council of the European Communities, 2003), of Europe has in particular published a Mobilising the Brainpower of Europe: Enabling number of essays on the role of higher Universities to Make Their Full Contribution education in modern societies in the last 10 to the Lisbon Strategy (Commission of the years. Among others, we can mention Good

and social responsibility and attitudes European Communities, 2005), Delivering tion test was used to provide an adequate Education, Research and Innovation

In the publication Needs and Constraints Mission Activities (E3M, 2008), the authors have made clear the need for changing the role of universities from teaching and reselves into key players in the knowledge economy in relation to society at large. It is also clear that this relationship with the "outside world" should be focused on three interrelated areas: research (technology transfer and innovation), teaching (lifelong learning/continuing education), and a social engagement function in line with regional/national development. In this respect, the third mission cannot be considered as an isolated (or residual) function; rather, it is complementary to the other two missions of universities. On 19 March 2015, the European Economic and Social Committee, acting under Rule 29(2) of its Rules of Procedure, decided to draw up an own-initiative opinion, Engaged Universities Shaping Europe (European Economic and Social Committee, 2015). In this document the Committee advocated explicitly for the first time for the concept of a civic university in EU policy documents. In May 2017, the European Commission (2017) adopted its Communication (COM(2017) 247 final) on a Renewed EU Agenda for Higher Education, focusing on four priority activities: tackling future skills mismatches and promoting excellence in skills development, building In 2000, the European Council introduced inclusive and connected higher education systems, ensuring higher education institu-

(Mora, Detmer, & Vieira, 2010), Reimagining had an absolute monopoly in educa-Democratic Societies: A New Era of Personal and tion. There were only state schools, at a Social Responsibility (Bergan, Harkavy, & maximum level unified. The tradition of Land, 2013), and Higher Education for Modern volunteer work and civic activism was forc-Societies: Competences and Values (Bergan & ibly interrupted in totalitarian regimes, and Damian, 2010). All of these studies and doc- the operation of all forms of independent uments point out the need for changing the organizations was deliberately and sysrole of universities as well as teaching and tematically reduced or subjected to strict learning strategies targeted on competency- control. Civil society itself and voluntary based learning.

Although the emphasis on the third mission of universities is laid out in a number of European documents and studies, in Slovak higher education this term is almost unknown. Matulayová (2013), based on an analysis of strategic materials relating to higher education institutions in Slovakia, stated that the notion of a third mission or third role of universities is not explicitly used in even one strategic document. There is also no mention of the issue of "new roles" or social responsibility of higher education institutions. There is, however, accentuated cooperation with industry and the private sphere. Cognition and knowledge are preferentially perceived as goods; education and research as services. The The level of civic engagement in Slovakia Slovak Republic has acceded to these ap- still cannot compare to that reached in proaches that emphasize the economic countries with a developed culture of endimension of tertiary education. Academic gagement in resolving local problems. The capitalism manifests itself in all aspects latest research, from 2011, shows that only of state policy on tertiary education and 27% of adults had participated in formal science and research—from organization volunteering in the previous 12 months and funding through quality and outcomes (Brozmanová Gregorová et al., 2012). This measurement to designing future develop- low rate of participation is due to the ment. The redefinition of the missions of above-mentioned historical experience, as universities was to highlight the National well as to other problems and needs identi-Education Development Program "Learning fied in the analysis presented by European Slovakia" (Národný program výchovy a vz- Volunteering Centre (2011), such as the need delávania "Učiace sa Slovensko") prepared to actively motivate people to get involved in 2017, which defined the third mis- in civic and voluntary activities; the need to sion of universities in a separate chapter educate about volunteering; and the need (Burjan et al., 2017). However, the docu- for education, training, and capacity buildment did not come into force. The National ing in the field of volunteering and civic Program for the Development of Education engagement. (Národný program výchovy a vzdelávania; Ministerstvo školstva, vedy, výskumu a športu SR, 2018), approved in Slovakia in 2018, included the implementation of tools to support the implementation of the third mission of higher education institutions, but it gave no specifics for this measure.

Slovak higher education institutions, as well tion institutions as research and education. as civic engagement itself in this region, Many of them are still not open to coopcational system was based on egalitarian organizations in their region, and they do principles, collective education, and strong not have sufficient capacities developed to

Practices in University–Enterprise Partnership centralization. During socialism, the state engagement of citizens in resolving local problems were not supported, and universities did not play any role in the process. Any civic engagement was state-controlled, more compulsory than voluntary. The role of universities was seen primarily in research and education. This is why university teachers and leaders still do not understand well the social role of universities and the need for its development, and thus they are not prepared for its implementation in practice. Development of civic engagement is expected from organizations active in the nongovernmental sphere, not from higher education institutions, traditionally perceived as closed institutions with no relation to practice and real life.

The role of higher education institutions in the development of communities and regions, in resolving local and global problems, and in actively contributing to the development of civic engagement and social responsibility of employees and students is not as easy for "traditional" higher educawere influenced by socialism. The edu- eration with public and nongovernmental The lack of attention from universities in the field of civic engagement in the Slovak Slovakia to the third mission and strategies context is unstable and unclear, which developed within this mission can also be also complicates research in this field. The attributed to the general attitude of society regarding the responsibility for solving the concept of volunteering, but this is also problems in society and communities, as not perceived unequivocally by the general well as the specific meaning of solidarity in public. This is well illustrated by one of the Slovakia. Solidarity in the context of practi- publications on volunteering in Slovakia cal community service carries a voluntary among the young people, titled I Am Not a attribute, not only to indicate that a person Volunteer! I Only Do It ... (Králiková, 2016). participates in it of his or her own will but People often do not identify themselves with also to express a certain contradiction to the position of a volunteer, even though compulsory solidarity. Historically, volun- they perform this activity on a regular and tary solidarity was the precursor to that of a long-term basis. The terms community compulsory nature, but the powerful social service, community engagement, and servicestate during the period of communism and *learning* are not used in the Slovak language, consequently to the social-democratic direction of governments after 1989 led to its After literal translation into Slovak, they are weakening. Compulsory or forced solidarity and contributions to the social system Similarly, community is not a commonly began to be seen by people as fulfilling their obligations toward others in order to fulfill reciprocity and comradeship. This is evidenced by research findings on the perception of volunteering among people in Slovakia. For example, there is a strong belief in Slovakia that volunteers would not be needed if the state fulfilled its obligations. In 1998, this view was held by 55% of respondents (Woleková, 2002) and by 74% in 2003 (Bútorová, 2004). This view is upheld even by the younger generation.

In research conducted in 2017 (Brozmanová Gregorová, Šolcová, & Siekelová, 2018) among young people aged 15 to 30, up to 54% of respondents agreed with this view. As Bútorová (2004) states, this way of thinking is based on the idea that, under ideal conditions, the hand of the caregiving state should "reach out" to every situation in the life of the community, whether it is an emergency situation or development opportunities. People with such a statist approach do not perceive volunteering as an irreplaceable segment in the life of society. Service-learning is often known in the The growth of forced solidarity has, on the literature as a pedagogy that combines a one hand, positive consequences in that the service to the community with learning state guarantees the satisfaction of the basic opportunities offered to the involved stuneeds of the population, which increases the dents (Heffernan, 2001). Service-learning sense of social security. On the other hand, is generally described as a "balanced apit risks the loss of activity of individuals and proach to experiential education" that can the limitation of voluntary solidarity. Forced \tilde{a} ensure equal focus on both the service solidarity essentially blocks the possibil- provided to the community and the learnity of expressing freedom of action for the ing that is occurring" (Furco, 1996, p. 3). In benefit of someone else, because this role is other words, service-learning is perceived undertaken by the state and leaves no room as a method by which students can learn

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For these reasons, the terminology used in most commonly used term in this area is and they do not have Slovak equivalents. basically incomprehensible and unusable. used word for Slovaks.

In this context, not only the third mission of universities, but also service-learning is being developed as one of the ways of fulfilling this mission. As stated by Regina (2013), service-learning focuses on eliminating the gap between social engagement and academic life. At the same time, it helps build bridges between "serious scientists" and socially engaged universities, creating a synergy between the three missions of universities.

The literature in the field indicates several basic theoretical definitions of servicelearning, as well as numerous paradigms and perspectives in which this strategy is viewed (see Butin, 2010; Moore & Lan, 2009). In the last 20 years, more than 200 new definitions of service-learning have been published, in which service-learning is understood as an experience, a pedagogical concept, a philosophical concept, a social movement, and so on.

petencies through active participation in for the academic public and educational community-oriented experiences that are practice is a new and still almost unknown connected to their academic curricula and pedagogical strategy. In recent years, this provide them with reflective opportunities strategy has been spreading, especially from (Furco, 1996). From this strategic applica- one of the Slovak universities—Matej Bel tion, we expect not only the development of University in Banská Bystrica-not only professional competencies but also changes within its internal environment but also in in the students' "civic characteristics," which determine a citizens' involvement not only during but also after performing service-learning projects.

Nowadays, international consensus defines service-learning through three key characteristics: (1) a focus on efficiently and effectively addressing needs with a community, and not just for the community; dobrovol'níctvu; 2018) was adopted by the (2) active student involvement in all stages, Minister of Education, Science, Research from planning to assessment; and (3) being and Sport. intentionally linked to learning content (curricular learning, reflection, develop- The Strategy is based on strategic and conment of skills for citizenship and work, and ceptual documents prepared at the national research; Regina, 2017). Service-learning level, research findings in the field of youth works with real student experiences and volunteering, and the current practice in involves metacognitive learning when the this field. The Youth Strategy 2014-2020 student is aware of how they have learned, in Slovakia (Ministerstvo školstva, vedy, what they have learned, what helped them výskumu a športu SR, 2014) pays attention learn, how they can use it in practice, and to the development of youth volunteering. what they need to learn further. It is un- One of the measures defined in this Strategy derstood as a teaching and learning strat- is to connect volunteering to formal educaegy that integrates meaningful community tion. The Support Program for Volunteering service with education and reflection. The and Volunteer Centers (Urad splnomocnenca community service is incorporated into the vlády pre rozvoj občianskej spoločnosti, curriculum of various academic subjects and 2013), based on the Government of the study programs. There are several servicelearning models in practice.

When operating with a service-learning concept in a higher education system, it is suggested that a distinction has to be made between community service, volunteerism, field education, and service-learning (Fiske, 2001; Furco & Holland, 2005; Lipčáková & Matulayová, 2012). Thus, service-learning distinguishes itself from other types of community-oriented activities by connecting with curriculum content, enriching the learning process by promoting a better understanding of course and disciplinary content, promoting civic responsibility of students, and strengthing communities (Bringle & Hatcher, 1996; Fiske, 2001; Rusu, Bencic, & Hodor, 2014).

Thanks to instrumental and innovative children and young people should be led by service-learning focusing on the social and pedagogues toward active participation, a professional development of students as proactive approach in solving societal probwell as community needs, we are currently lems, helping others through volunteer acexperiencing the development of service- tivities, but also toward inclusive behaviors learning programs at universities around and prosocial attitudes and values.

and develop social and professional com- the world. In Slovakia, service-learning a wider context.

> The specificity of service-learning development in Slovak conditions is its connection with education for volunteering and civic engagement. In April 2018, the Strategy for Education of Children and Youth for Volunteering in Slovakia (Koncepcia výchovy a vzdelávania detí a mládeže k

> Slovak Republic Resolution No. 68/2012, Point C.15. and approved by the Council of the Government of the Slovak Republic for nongovernmental, nonprofit organizations through Resolution No. 22/2013, emphasizes and justifies the significance of volunteering, the urgency of supporting it, and the need to educate volunteers within the concept of lifelong learning. In harmony with the proposed measures of the program, there was a task incorporated into the Action Plan for the Strategy of the Civil Society Development for the years 2017 and 2018: preparing the Strategy for Education of Children and Youth for Volunteering. This strategy views volunteering as a crosssectional theme and a space for experiential learning based on the reflection of experience, and thus promulgates the view that

Volunteering in the school environment is developed in Slovakia within several models. Several organizations in Slovakia based their recruitment of volunteers on specific schools or universities and organizing volunteer programs for them. Schools are usually inclined toward such cooperation; however, volunteering is in such a case perceived as an extracurricular activity and part of informal education. At primary and secondary schools and universities, we also often encounter active teachers who inspire children and young people to engage in voluntary activities and organize these activities—they actively search for volunteering opportunities for their students or plan such activities together with pupils and students. Volunteering in the school environment is also supported by several nongovernmental organizations within their programs, such as the Institute for Active Citizenship, the Green Foundation, some regional volunteer centers, and the Duke of Edinburgh's International Award Foundation. However, in schools the good intention of becoming an active part of the community often leads to literally forcing students into volunteering without their

result in a negative attitude toward volunteering as such. Connecting volunteer experience with the educational process and At Matej Bel University (MBU) servicereflection of this experience by students is learning has been applied since the usually a very rare practice, so many volunteering activities of students remain "only" an experience without explicitly specified in Slovakia—conducting research, using educational goals.

The Strategy for Education of Children and Youth for Volunteering in Slovakia is based on service-learning pedagogy principles, and its goal is to create the prerequisites for the implementation of education for volunteering at all levels of education (also at universities). The strategy and its introduction into practice should help volunteering become a natural part of lifestyles of people and communities in Slovakia, and thus connect formal education with real life. According to this strategy, volunteering MBU has been working on the development should also fulfill these objectives:

free choice, which for some students can

- developing the perception and sensitivity of children and youth toward the needs and problems of the environment and the people around them or wider community in which they live;
- leading children and youth toward coresponsibility for what is hap-

pening in their surroundings and to develop their self-confidence so they can become the changemakers in the society; and

promoting the interconnection of volunteering and competencies gained through it with the personal and future professional lives of children and youth.

Implementing the strategy into practice will also require empirical verification of the fulfillment of its objectives, so research on the impact on students of service-learning adapted to Slovak conditions is highly topical. Verifying the impact of service-learning on university students is a first step toward laying the groundwork for research in this area in a national context and is being implemented as part of "The Influence of Service Learning—Innovative Strategy for Education—on Social and Personal Development and Citizen Involvement of University Students" supported by the Ministry of Education, Science, Research and Sport of the Slovak Republic.

Service-Learning at Matej Bel University

2005–2006 academic year, and it can be stated that MBU is the leader in this field grants, and publishing both at home and abroad. Elsewhere in Slovakia, only the Prešov University in Prešov devotes any time to service-learning, and then only in the education of social workers; the Catholic University of Ružomberok is, at present, only in the initial phases of its introduction. There are also several elementary and secondary schools conducting service-learning pilot projects (many in cooperation with the Volunteer Center in Banská Bystrica and MBU).

of voluntary student activities since 1998, particularly in cooperation with the regional Volunteer Center in Banská Bystrica. The students were involved in organizing numerous volunteer activities for community and nonprofit organizations. MBU has been providing service-learning since 2005. It was implemented by one teacher (nowadays coordinator of service-learning at MBU) within the subject Third Sector

and Nonprofit Organizations in the educa- (mentoring for new teachers who want tion of future social workers. Since 2013, to implement service-learning, organizthe project Development of Innovative ing roundtables and workshops, deliver-Forms of Education at Matej Bel University ing training for teachers, service-learning in Banská Bystrica has been instrumental promotion, conducting research). The team in the qualitative and quantitative devel- coordinator is also coordinator of serviceopment of service-learning at MBU. Based learning at MBU, but it is an unofficial on the assessment of students' needs, we position. She promotes, with strong team have applied service-learning since the support, service-learning outside and inside academic year 2013–2014 to a two-se- the university and coordinates projects in mester optional university subject, Service this field. In the academic year 2018-2019, Learning 1 and Service Learning 2, led by more than 15 subjects at MBU included an interdisciplinary team of 10 teachers service-learning pedagogy, and 17 teachers from different departments. In 2016, MBU were involved in the implementation. The entered the international program directed subjects are part of different study proby Centro Latinoamericano de Aprendizaje grams in different faculties, mainly social y Servicio Solidario [Latin American Center work, pedagogy, social pedagogy, teacher for Service-Learning] (CLAYSS) support- education in different areas, and economics. ing the development of service-learning at Since 2013, more than 400 students have universities. More than 30 teachers from participated in service-learning projects MBU were educated on the implementa- in cooperation with different commution of service-learning through online and nity partners (schools, community centers, offline courses offered by CLAYSS. At the municipalities, nongovernmental organizasame time, a platform for an exchange of tions, houses for social services, community information and experience in the field was foundations, and others). There is no adcreated.

Service-learning was officially confirmed by the rector of the university as a way a university can meet its third mission. One of the principles and values of MBU is "MBU is engaged in the development of communities and the region, in solving local and national problems and it actively contributes to development of a civil society" (Univerzita for supporting students' service-learning Mateja Bela, 2015, p. 4). This principle was incorporated in the strategic documents of first time, students have the opportunity to MBU in 2017, mainly thanks to the activities obtain support for their project implemenregarding development of service-learning tation from university sources. The implestrategy. Each year there is also a concrete mentation of the university's third mission task regarding service-learning develop- and service-learning in the university curment in the plan for the university and fac- riculum is an important structural issue. We ulties. MBU understands service-learning as have managed to complete the first steps the key route to fulfilling its third mission. in the process. The biggest challenge is not Service-learning at Matej Bel University is so much the formal change but the mental defined as an active teaching and learning change, which is a long-term and challengstrategy based on service for others in an ing process. effort to develop students' personalities, key competencies, and sense of civic responsibility and engagement. It emphasizes that definition of service-learning, an integral it is the conjunction of the needs of students, the community, and the organization (school).

a bottom-up process. The main role in competencies but also changes in social and practical development is played by the core personal responsibility. That is to say, this service-learning team. Nowadays the core attitude significantly determines actual cititeam consists of 12 teachers. The teachers zens' involvement not only during but also share different responsibilities and tasks after the performance of service-learning

ministrative or support staff at the department, faculty, or university level helping teachers with administrative issues. The involvement of teachers is not part of their responsibilities; they do not have any special benefits from it or financial motivation. The involvement in service-learning or any community activity is not part of the teachers' regular evaluation. In 2018, the fund projects was established at MBU. For the

As evidenced from the above-mentioned and essential part of service-learning is service in the community. Therefore, from this strategy application in the process of education we expect not only the develop-Service-learning development at MBU is ment of professional and key or transversal projects. Citizenship is described as bringing literature is the students' feeling that their with it not only democratic rights but also a actions can make a significant difference community through active participation in and the perceived sense of their own actions community matters. Service-learning offers (Conrad & Hedin, 1991). Eyler and Giles students the opportunity to recognize the (2001) reviewed more than 40 studies rewhile they are students and also after they on students' sense of social responsibility, have completed their studies, by bringing citizenship skills, or commitment to service. their future career to the community to help More recently, Buch (2008) found that stusolve problems or add value (Eyler & Giles, dents who participated in service projects 1999).

Civic Outcomes and Service-Learning

A long research tradition of the effectiveness and the design of service-learning can be observed in the United States. We list here some of the most significant contributions to research abroad: Astin, Vogelgesang, Ikeda, and Yee (2000); Billig (2000); Celio, Durlak, and Dymnicki (2011); Clayton, Bringle, and Hatcher (2013); Eyler, Giles, Stenson, and Gray (2001); Melchior et al. (1999); Morgan and Streb (2001); Reed, Jernstedt, Hawley, Reber, and DuBois (2005); Simons and Cleary (2006); Yorio and Ye (2012). These works are aimed at the analysis of the impact of service-learning on students and suggest that service-learning has a positive effect in several areas. Empirical findings not only demonstrated the positive contribution to the development of personal skills and learning success, but also illustrated the potential for the development of civic outcomes (Furco, 2004). As stated by Hemer & Reason (2017), the study of civic outcomes is not a high-consensus field; rather, it is informed by multiple academic disciplines and theoretical perspectives. Hemer and Reason offer a review of studies on a broad conceptualization of civic outcomes, including (a) civic knowledge, (b) skills, (c) attitudes and values, (d) behaviors, and (e) civic identity, which is a broader outcome inclusive of the previous four. Civic outcomes in these areas are presented in several studies, for example Astin et al. (2000); Bender and Jordaan (2007); Bowman (2011); Bringle, Clayton, and Bringle (2015); Coe et al. (2015); Hatcher (2011); Keen (2009); Billig (2002); Mayhew and Engberg (2011); (2017) that the results of these studies are Prentice and Robinson (2010); Shiarella, not directly transferable to different and McCarthy, and Tucker (2000); Torney- heterogeneous European contexts (e.g., Purta, Cabrera, Roohr, Liu, and Rios (2015). learning and teaching tradition, under-Besides the quantitative outcomes, one of standing of society and civic engagement). the most important qualitative outcomes of As stated by Gerholz et al. (2018), the results service-learning programs reported in the of a mixed-method study in the European

responsibility to help solve problems in the to the community (Simons & Cleary, 2006) role they can play as responsible citizens porting positive effects of service-learning as part of a discipline-centered learning community had significantly higher scores on the Civic Action Scale (Moely et al., 2002) than a comparison group of students not in the learning community. Using the same scale, another study reported positive changes in civic action scores among students participating in a semester-long service-learning project (Moely, McFarland, Miron, Mercer, & Ilustre, 2002). Kilgo, Pasquesi, Ezell Sheets, and Pascarella (2014) demonstrated that service-learning is a possible mechanism to encourage social responsibility.

> Reason and Hemer (2015), based on a review of research studies focused on civic outcomes, found that the vast majority of researchers' inquiries into civic outcomes used quantitative methods, often based on students' self-report instruments and cross-sectional designs. For measuring civic attitudes, different tools were also developed, for example the Community Service Attitude Scale (CSAS) developed by Shiarella et al. (2000), the Civic Action Scale (CAS) developed by Moely et al. (2002), the Civic Engagement Scale developed by Doolittle, and Faul (2013), or Mabry's (1998) scale for measuring the outcomes of service-learning including also civic attitudes. Steinberg, Hatcher, and Bringle (2011) offered in their work the basis for assessment and research on civic outcomes of service-learning based on the concept of the civic-minded graduate (CMG). They provide a model (CMG Scale, CMG Narrative Prompt, CMG Rubric, CMG Interview protocol) for approaching civic development on a different level of analysis and across time.

Kim and Billig (2003); Klute, Sandel, and We agree with Gerholz, Liszt, and Klingsieck

understanding of Mabry's scale. In addi- verified with existing methods and instrution, the results of these empirical analy- ments. ses are limited, particularly regarding the implementation of service-learning. The methodological level shows the different operationalization of the constructs examined, which is substantiated in the absence of a standardized competency model.

Furthermore, no study of this kind has as yet been performed specifically for and Participants among Slovak higher education institutions and students. There are research studies from Matej Bel University, where service-learning has been developed since 2005 and where an interdisciplinary team is focusing also on measuring the impact of service-learning on key competencies and civic engagement of students. In several studies we approved, service-learning had a positive effect on the development of a subjective perceived level of key competencies and social and personal responsibility (for example, Bariaková & Kubealaková, 2016; Brozmanová Gregorová & Heinzová, 2015; Brozmanová Gregorová, Heinzová, & Chovancová, 2016; Brozmanová Gregorová, Heinzová, Kurčíková, Šavrnochová, & Solcová, 2019).

The benefits of service-learning in the within the research project supported by education of social workers at Prešov University have been reported in several studies (Balogová, Skyba, & Šoltésová, 2014; Lipčáková & Matulayová, 2012; Skyba & Soltésová, 2013). In the Czech environment, the project was reviewed and signed also by service-learning is used in university education, primarily in the preparation of social workers, at the University of Olomouc. Matulayová (2013, 2014) pointed out the benefits of its application in education in social work. In these cases, these are simple studies based on analyzing reflections of University who completed a specific course students who have completed subjects that based on service-learning. At the university, are not focused on civic outcomes.

Neither in the Slovak environment nor in the Czech environment, which is very close to Slovakia, can we say there is any appreciable attention paid to the topic of community service, based on a systematic review of literature. This fact is caused by the above-mentioned context of servicelearning development in Slovakia. Servicelearning is becoming more integrated into The first part of the course is implemented higher education practice, as well as in in several teaching blocks. Students acquire lower levels of education. There is a need theoretical knowledge through creative and to conduct studies on the impact it has on active teaching methods. Practical analystudents. Universities have programs where sis helps them to gain experience in group

area revealed positive time effects on the academics see potential positive outcomes development of civic attitudes based on the for students, but these outcomes cannot be

Methods

In our research, our goal was to verify the impact of service-learning on the social and personal responsibility of students.

The respondents for our research were students at MBU who completed a servicelearning course during a period of three academic years, namely 2015-2016 to 2017–2018, and who formed an experimental group of 75 students. In addition to the experimental group, we selected a control group that was experimentally matched by study field, degree course level, and gender. The control group consisted of 32 students. Respondents of both groups surveyed gave their consent to anonymous processing of the data they provided to us by completing pencil-and-paper questionnaires that were administered approximately seven months apart. There is no institutional review of human subject research approval needed in Slovakia; the research was carried out the Ministry of Education, Research, Science and Sport of the Slovak Republic, and before approval, the project was reviewed by experts outside the university. Submission of the head of the Faculty of Education at MBU.

Stimuli

The research findings presented in this article relate to a study of students at Matej Bel there is an optional two-semester course open to students of all levels and in all study programs. The course has been led since 2013 by an interdisciplinary team of teachers from different departments, with the aim of developing the students' competencies (i.e., knowledge, skills, and attitudes) related to delivering activities for the benefit of others and project management.

dynamics and team roles. They learn about careful planning and time management, explore the necessity of aligning objectives with a target group through the choice of an 4. adapted tool to ensure an efficient promotion of their service-learning project within the target group, practice communication in model situations, and acquire skills for drafting budgets. Reflection precedes self- 5. evaluation and evaluation of each activity. The second part of the course transfers service activities to the students, who, no later than the end of the summer semester of the academic year, identify their own needs and the needs of the school and community within their group, and then create activities to meet the identified needs. They through mentoring. At least twice a month, the activity is assessed by the student and his or her tutor, from various points of view including planning, implementation, and evaluation. At the end of the summer semester, all students meet and present their implemented activities and their outputs, reflect on their own learning process, and provide an evaluation of the whole course to the other students and to the public. The evaluation session is an integral part of the service-learning course and takes place at the university as a seminar open to all students and teachers of the university.

Procedures

As there is no tool for measuring social and personal responsibility in Slovak terms, we using SPSS 19.0. have adopted Conrad and Hedin's (1981) Social and Personal Responsibility Scale (SPRS) to assess the impact of the servicelearning on the development of these characteristics of students. While verifying changes in social and personal responsibility, we also experimentally verified this range and its use in our conditions.

The SPRS is divided into five subscales:

- The Social Welfare subscale focuses on 1. the extent to which one feels concerned society.
- The Duty subscale focuses on the extent 2. to which one feels bound to personally meet one's social obligations.
- 3. others, they may still not be able to act experimental and control group.

in a responsible manner if they do not have the competence or skill to do so.

- The Efficacy Regarding Responsibility *subscale* reflects that a person must be willing or be able to believe that taking responsible action will have an impact on the social or physical environment.
- The Performance of Responsible Acts subscale assesses the extent to which students perceive that they do in fact act in responsible ways. (Conrad & Hedin, 1981)

The original scale was designed for secondary school students. We used the scale as adapted by Brozmanová Gregorová (2007) continue to cooperate with their teachers for university students in research focused on volunteering in higher education in Matej Bel University. The authors of the survey tried to forestall students' tendency to give socially desirable responses by making a special type of scale where the respondents do not assess themselves but their peers. Each SPRS item consists of two statements concerning social and personal responsibility. The respondent should choose only one statement and assess whether it is "always true" or "sometimes true." In total, there is a four-level scale for each item of the questionnaire. The questionnaire consists of 21 items (42 statements) divided into five subscales and involves 11 reversible items. Two items of the questionnaire are not evaluated at all. The scale has been translated into Slovak. The data were analyzed

Within the qualitative strategy we applied content analysis. We analyzed the self-reflections of the students who completed the course with service-learning strategy and completed the measuring tool SPRS in 2015-2016 and 2016–2017 (*N* = 34). The students elaborated written self-reflections after completion of the course and at the same time they filled in the questionnaires. The self-reflections were structured according to questions focused on the benefits from service-learning experiences. The students about problems and issues in a wider were informed that their self-reflections would be used for research purposes.

Results

In Table 1 we present the results of the data The Competency to Take Responsibility reliability survey using Cronbach's alpha, subscale reflects that although a person and in Table 2 the descriptive indicators of may have a positive attitude toward our research sample (N = 107), especially for

Table 1. Cronbach's Alpha for Pre- and Posttesting Using the Social and Personal Responsibility Scale				
	Pretesting	Posttesting		
Attitudes toward being responsible: Social Welfare	0.271	0.637		
Attitudes toward being responsible: Duty	0.146	0.758		
Competency to Take Responsibility	0.337	0.351		
Efficacy Regarding Responsibility	0.537	0.597		
Performance of Responsible Acts	0.461	0.572		

Table 2. Descriptive Indicators Social and Personal Responsibility Scale in Experimental (N = 75) and Control Group (N = 32) From Postfesting

Expe	rimental (N = 75) and Co	itroi Gro	up(N =	32) F [O]	m Postlesi	ing
		Median	Mean	SD	Skewness	Kurtosis
	Social Welfare	3	3.083	0.560	-0.394	-0.355
group	Duty	3.5	3.308	0.491	-0.106	-1.052
	Competency to Take Responsibility	2.5	2.703	0.547	-0.534	1.259
Experimental (N = 75)	Efficacy Regarding Responsibility	2.5	2.688	0.528	-0.169	0.457
Expe	Performance of Responsible Acts	3	3.070	0.585	-0.237	-0.580
	Global Responsibility	3	2.984	0.351	-0.139	-0.775
	Social Welfare	2.5	2.728	0.711	-0.770	0.671
	Duty	3	2.930	0.786	-1.131	1.089
Control group (N = 32)	Competency to Take Responsibility	2.5	2.637	0.601	0.149	0.192
	Efficacy Regarding Responsibility	2.5	2.633	0.535	-0.309	-0.605
C J	Performance of Responsible Acts	2.5	2.728	0.703	-0.410	-0.177
	Global Responsibility	2.5	2.735	0.522	-0.486	0.501

The reliability of the questionnaires was social and personal responsibilities at higher evaluated by using Cronbach's alpha and levels than did the control group students. varied from 0.146 to 0.537 for pretesting and The data in Table 1 did not show normal 0.351 to 0.758 for posttesting. We attribute distribution; therefore, we used nonparathe low level of data reliability to the unusual form of questionnaire administration, when we had to allocate approximately 15% of improperly administered questionnaires from the questionnaires to the research sample, especially in pretesting. Therefore, we will only consider posttesting data for our research needs.

In several subscales of the questionnaire, and social responsibility measured by SPRS. experimental group students assessed their We compared the results of the posttests

metric testing in our research (Spearman correlation test and Mann-Whitney U test).

Results About Changes in Personal and Social Responsibility—Quantitative Approach

In our research, we tried to find out whether there was a change in the level of personal

Table 3. Difference in the Posttest SPRS Between the Experimental and Control Group					
	Group	Median	U	P-value	CLES
Social Welfare	Exper	3	850 0.016		
Social Wellare	Cont	2.5	850	0.016	0.292
Duter	Exper	3.5	007	0.030	0.262
Duty	Cont	3	884		0.263
Competency to Take	Exper	2.5	1087.5 0.43	0 / 25	
Responsibility	Cont	2.5		0.435	_
Efficacy Regarding	Exper	2.5		0.720	
Responsibility	Cont	2.5	1148 0.720		
Performance of Responsible	Exper	3	872.5	0.005	0.273
Acts	Cont	2.5		0.025	
Clabal Deepengibility	Exper	3		0.285	
Global Responsibility	Cont	2.5	858.5 0.020		

between the experimental and control fied categories in our qualitative analysis. groups (Table 3). Posttest data reliability, as we mentioned before, was acceptable. We tested the differences in personal and social responsibility between experimental and control groups through the Mann–Whitney test.

The statistically significant difference in posttests between the experimental and the control group was demonstrated in the Social Welfare, Duty, Performance of Responsible Acts, and Global Responsibility scales Common language effect size shows weak relations. All differences are in favor of the experimental group.

Results About Changes in Attitude to Community Service—Qualitative Approach

Based on the qualitative analyses from the when we had to allocate approximately 15% students' self-reflection, we can identify concrete benefits connected with the from questionnaires to the research sample, changes in social and personal respon- especially in pretesting. The authors of the sibility and attitudes toward community questionnaire tried to avoid social desirservice. As shown in Table 4, we organized ability responses when constructing it, identified benefits according to the model but it is clear that the questionnaire form of altruistic behavior described by Schwartz is difficult for Slovak conditions and that (1977). According to Schwartz, altruistic respondents found the items incomprehelping behavior describes how aware in- hensible and thus sometimes answered at dividuals are of the needs of others and to random. Regarding posttesting reliability, what degree they want to help others. This it probably increased because the responmodel corresponds also with the social and dents had previously encountered this scale. personal responsibility concept measured Since the higher values of Cronbach's alpha by SPRS. The Schwartz model identifies the occurred in posttests, we can say that the sequential steps represented by the identi- experience of working in the community is

Discussion

In our research, which focused on the impact of service-learning on social and personal responsibility of students, we faced a number of methodological facts. On the one hand, we were forced to adopt a foreign methodology for investigating this phenomenon, and on the other hand, it was specific in the administration of the questionnaire. This fact—the slight incomprehensibility of its administration—was reflected in the respondents by a relatively high error rate and, ultimately, by low reliability of data during its first administration. We attribute the low level of data reliability to the unusual form of questionnaire administration, of improperly administered questionnaires I down the first provide the set of operations of the second

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	ed Benefits of Service-Learning Attitudes (adapted from Schwartz, 1977)
Community service attitude	Student Reflection Statements
Activation steps: Perception of a r	need to respond (Social Welfare subscale)
Awareness that others are in need	"I have better knowledge about the needs and problems in society." "I gained knowledge about the community and the needs in the community." "I became aware that there are many people who need help."
Perception that there are actions that could relieve the need	"Because of the subject, I know that there are people and groups that deal with others and I can be part of them."
Recognition of one's own ability to do something to provide help	"I learnt to respond actively and flexibly to the developing needs in the community." "I know what it is to help other people, and that I am able to do it." "I can actively respond to the needs of others." "I will know when helping the community how to better judge my possibilities."
Feeling a sense of responsibility to become involved based on a sense of connectedness with the community or the people in need	""I realized how important it is to help other people and that it is part of my task." "It was important for me to know that I can be help- ful."
Obligation step: Moral obligation	to respond (Duty subscale)
Feeling a moral obligation to help that is generated through (a) personal or situational norms to help and (b) empathy	"I don't see only myself but also the needs of other people" "I learned how important it is to see problems from the viewpoint of those who need help, which is also necessary in one's work."
Defense steps: Reassessment of pe Responsibiity subscale and Efficae	otential responses (Competency to Take cy Regarding Responsibility subscale)
Assessment of (a) costs and (b) probably outcomes (benefits) of helping	"I found that helping other people can have more benefits for myself than I realized before this experi- ence."
Reassessment and redefinition of the situation by denial of the reality and seriousness of the need and the responsibility to respond	"It is nice to be creative and come up with new ideas, but I see that in community service it is more important to also see if our activities are needed by somebody in the community." "Thanks to graduating in my subject, I have become aware of a number of initiatives and ideas that I have begun to implement." "I realized how important and necessary it is to help others."
Response step: Engage in helping Acts subscale)	behavior (Performance of Responsible
Intention to engage in community service	"I want to be more engaged in solving the real issues in society and the community and I want to also mo- tivate other people to become involved in community service in the future." "I will engage more actively in various activities that are beneficial to the community."

the statements are confusing for people who well as in other Slovak universities. In adhave no experience with civic engagement dition, it would be beneficial to repeat the and have no plans to practice it (after the posttest after a longer time period to meaof the subscale was higher).

On the basis of testing differences in social Also, data collection methods must be and personal responsibility after completing tailored to the specific conditions of deservice-learning, we can say that there is a velopment of service-learning in Slovakia. statistically significant weakness between After verifying the research tools we transthese groups, especially in *attitudes on social* ferred, we have prepared a new research welfare, attitudes on duty, and performance tool for the measurement of personal and of responsible acts. The results of reliability social responsibility for the academic year testing, however, point to the low realism of 2018-2019. We have included items where the research tool and data. We realize that we have found higher reliability for repeated our research is only a pilot in view of the measurements. It also appears that a suitsize of our sample in the experimental and able approach to identifying the benefits control groups, but despite the experience of service-learning is a combination of of processing data from SPRS, we see that it research methods and approaches that can is necessary for us to produce our own scale reveal the different perspectives of the phefor the verification of social and personal nomenon under consideration, in our case responsibility.

On the other hand, the results of qualitative analysis point to the fact that the benefits of service-learning can be identified from an individual perspective also in the area of civic outcomes. The results of our study show that there may be considerable differences between students as individuals regarding changes in their civic attitudes. The important role is played not only by the individual characteristics of the students themselves, but also by the service-learning experience itself. In some projects, students have a close connection to the community, whereas in others it is not so strong. Students also spent varying amounts of time in community service during the service-learning experience.

As Gerholz et al. (2018) stated, the empirical results indicate that a general effect of service-learning can be assumed, even if only minor effects are evident and the results of the studies are mixed. The capacity of the results at the contextual level is limited, as nearly all the studies come from the United States, where a more community-oriented education goal is traditionally prevalent.

Limitations and Future Research

The current study had a small sample size probably lead to further studies on attitudes in both the experimental and the control toward and perceptions of community sergroups of participants, and used measuring vice-learning, and its integration into the tools. For future research, we recommend curriculum. increasing the sample size. The possibili-

important for comprehension of the ques- ties of increasing the sample size in Slovak tions, as it evidently led to more consistent conditions are strongly related to the future answers. Likewise, we suspect that some of development of service-learning at MBU as service-learning experience, the reliability sure the long-term impact and outcomes of the experience.

> the benefits of service-learning in the civic area. We also agree with Battistoni (2013), who states that beyond greater precision of the conceptual framework, there are three areas in particular that should drive the research agenda in assessing students' civic learning outcomes: (a) more and better longitudinal and qualitative research, (b) understanding of the role and importance of educators in students' civic learning, and (c) comparison of the impact of different service-learning models on students' civic learning.

Conclusions

Despite the above-mentioned findings and weak points of our study in itself and in relation to the findings of other researchers doing similar research, we can conclude that service-learning belongs to those educational strategies that help develop a personal and social responsibility and positive attitudes of students toward community service.

Research on service-learning in Slovakia is also still at an early stage, and little subjectspecific research has been conducted. It is therefore believed that the current study has filled a gap in the existing research, as it was the first study of its kind and will it is to use measuring tools that respect the in the field of service-learning is the newly and test them to prove the validity of ob- and youth for volunteering, which is based tained data. It is also important to conduct on service-learning pedagogy principles more in-depth qualitative analysis, which and which also includes higher education could provide important contextual un- institutions. We also see the research on derstandings of the terms that are used in service-learning in Slovak conditions as a research in this field.

Research on the benefits of service-learning is one of the important factors in the development of this strategy under Slovak

From this study we learned how important conditions. The challenge for development context of service-learning development adopted strategy for education of children way to prove its benefits and advocate for its implementation in practice.



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Civic Attitudes and Skills Development Through Service-Learning in Ecuador

Karla Díaz, Nascira Ramia, Daniela Bramwell, and Felipe Costales

Abstract

A mixed methods study was conducted to determine if a mandatory hybrid service-learning course had an effect on the civic attitudes and skills of college students attending a private university in Ecuador. The Civic Attitudes and Skills Questionnaire (CASQ) was used in a quasiexperimental design using MANOVA with follow up t tests. After this analysis, results showed that civic action was not significantly different while the other five factors of the CASQ had a significant difference. A case-study interview approach was used for the qualitative portion, and students reported feeling engaged with the community and perceived a positive impact in each of the CASQ six factors: civic action, interpersonal and problem-solving skills, political awareness, leadership skills, social justice attitudes, and diversity attitudes.

Keywords: CASQ, service-learning, civic attitudes, higher education in Ecuador, community engagement

Quito, 2017). In the summer of 2014, an ini- lated using the forward-backward methtial mixed methods study was conducted to odology, and the authors received the CASQ determine if the civic attitudes of students authors' approval to use the new translated changed after taking a mandatory service- version. A factor analysis was performed learning hybrid course. The Civic Attitudes before starting the current study, and the and Skills Questionnaire (CASQ) developed results of this analysis confirmed that no by Moely, Mercer, Ilustre, Miron, and changes needed to be performed on the McFarland (2002) was used with a sample original CASQ version. of 188 students before and after taking the course. A Wilcoxon signed ranks test was used to compare the medians of the pre and post measures, with the finding that Factor 2: Interpersonal and Problem–Solving Skills and Factor 3: Political Awareness had significant changes between the pre and post measure. However, this effect was not controlled for test-retest reliability. In-depth interviews were conducted with 11 students, and the majority reported being aware of their role in society and the social and po- The literature review section presents an litical issues occurring within the country overview of service-learning outcomes, (Diaz, Ramia, & Garlock, 2017).

private liberal arts university in After conducting this first study, the re-Ecuador began using the service- searchers realized that the instrument learning model in 2011 as part of required a careful translation and factor its General Education Program analysis prior to conducting further studies. (Universidad San Francisco de Consequently, the instrument was trans-

Research Questions

Two questions guided the current study, performed during the summer of 2015: What is the impact of a mandatory service-learning course on Ecuadorian college students' civic attitudes and skills? How does the service-learning course transform students' thinking and civic attitudes?

the difference between mandatory and

course-based service-learning, a discussion able to apply knowledge and skills, to reof civic attitudes and skills, the theoreti- flect critically, and to challenge their precal framework that consists of an analysis vious stereotypes (Strait, Turk, & Nordyke, learning theories, and the context of into real contexts, enhanced communicadition, the methodology section includes more cultural awareness than students who information about the setting and context, were not exposed to this methodology. a description of the participants of this study, and an explanation of the data collection process. Finally, the results segment presents the quantitative and qualitative findings from the deductive and inductive analysis.

Review of the Literature

The concept of service-learning has evolved since the development of land-grant colleges and the tradition of volunteerism and activism in the United States. Organizations such as Campus Compact formed in order to embrace service-learning as a methodology that promotes active and experiential learning while advancing cross-cultural and global understanding (Crabtree, 2008). Service-learning is now seen as a way to ing class ended (Knackmuhs et al., 2017). link instructional content with real communities outside the classroom through The impact of service-learning has been a planned reflection process that allows studied across various disciplines includstudents to assess their assumptions about ing health care, social work, and informaethics, while benefiting communities in a contexts where students are exposed to dif-Bringle, & McGuire, 2013).

service-learning. As Eyler and Giles (1999) engaging in web development activities mentioned, the hyphen in service-learning at a local community, reporting that they symbolizes reflection and the central role were able to transfer their learning into a it should play in service-learning courses. real-world context (Lee, 2012). In another Another essential aspect of service-learning study, students in the health profession is reciprocity. This entails that both students and community partners should reported improvement in their communibenefit from this experience by clarifying cation skills, improved collaborative workservice expectations. Service-learning can ing skills, enhanced community ties, and be a way to transform mental schemes into an increase in their social capital (Craig, different ones that lead students to take Phillips, & Hall, 2016). Social work students action when working within a community who took a social policy class were able to (Donahue, 2011).

Impact of Service-Learning on Students

Various studies, focused on both undergraduate and graduate students mainly from North America, have found positive outcomes for students when using According to Jacques, Garger, and Vracheva service-learning. Students who participate (2016), faculty leadership styles can influin service-learning report that they were ence the quality of the perceived impact

of the connection of service-learning 2015). Other benefits include overall better with transformational and experiential academic performance, transfer of learning service-learning in Latin America. In ad- tion, development of leadership skills, and

> A group of researchers followed students who took service-learning courses as undergraduates and found that after graduating their participation in civic activities increased within their communities, they maintained their teamwork abilities from their first service-learning experience, and they were better able to solve problems than students who did not participate in service-learning opportunities (Knackmuhs, Farmer, & Reynolds, 2017; Morgan, 2016). Another study with students who took an environmental class and completed a restoration project in a forest within their community reported having developed environmental awareness, problem-solving skills, and even continued to be engaged within their communities after the service-learn-

poverty, justice, democracy, privilege, and tion systems, as well as in interdisciplinary concrete manner (Donahue, 2011; Steinberg, ferent knowledge areas and work as teams in their service-learning experience. For example, a group of information systems The reflection component is critical to students perceived positive results after worked with interdisciplinary teams and connect theory to practice more effectively during their service activities through coalition building, using social media to draw attention to their cause, and writing concrete proposals (Lim, Maccio, Bickham, & Dabney, 2017).

of the service-learning experience. When students supported the difference in outinstructors were motivated and dynamic, comes when comparing a traditional course as more meaningful. One case study con- took the service-learning class reported ducted by Leon, Pinkert, and Taylor (2017) having questioned their stereotypes on analyzed the experience of three instructors aging and felt more engaged in their learnwho implemented service-learning as a new ing process as opposed to the group of stumethodology in their courses. The results dents in the traditional class (Blieszner & showed similarities in terms of the positive Artale, 2001). outcomes found in students who participated. For instance, faculty reported being more adept at teamwork, more reflective of their teaching practice, and more critical and active within their communities.

Mandatory and Course-Based Service-Learning

There are various higher education initiatives around the world that incorporate zenship, or learning about the role of being global service-learning as part of the curriculum. For example, a group of U.S. engineering students participated in a servicelearning experience in El Salvador as part of Anderson, 2005). their senior capstone course, working with the community on various projects such as potable water solutions and soil analysis. There are also some challenges identified by faculty that include course-based servicelearning experiences, as sometimes firstyear students are not adequately prepared to be part of such an experience. Another challenge is having the time and resources to maintain a working relationship with a community partner to develop a long-term commitment (Siniawski, Saez, Pal, & Luca, 2014).

There is evidence of positive learning outcomes when a service-learning component opportunity to reflect upon their personal is mandatory in a course. Researchers conducting a quasi-experimental study with and look for answers to inequality, social pharmacy students concluded that the ex- injustice, and poverty, among others (Yep, perimental group was able to demonstrate 2011). Jacoby (2015) pointed out that critithe knowledge and skills proposed in the cal reflection is key within service-learning learning outcomes better than the control programs. This type of reflection has to be a group (Kearney, 2013). Another study with consideration and reconsideration of one's occupational health students reported the views, beliefs, and values, and can be perbenefits of having students take differ- formed through speaking, writing, class acent courses involving service-learning to tivities, online discussion forums, or media achieve learning objectives that could not and artistic creation. be accomplished inside the classroom, such as empathy with children and their families, Experiential Learning awareness of how a community interacts, and understanding socioeconomic topics (Waskiewicz, 2001).

Furthermore, there is evidence that manda- fined service-learning from an experiential tory course-based service-learning compo- education perspective where there are exnents have an effect on student motivation periences integrated within the structure of and connection. A study with gerontology a program or course that promote reflection

students' overall experience was regarded and a service-learning course. Those that

Civic Attitudes and Skills and Service-Learning

Erickson and Anderson (2005) reported that students have to develop problem-solving skills among other skills to be successful citizens in the 21st century. One outcome that may result from a service-learning experience is appreciating the value of citian integral citizen. Other outcomes include attaining higher order thinking skills and becoming active citizens (Erickson &

Theoretical Foundation

Transformational Learning

Professors can have an active role in promoting transformational learning through service-learning by planning specific discussion questions that promote reflection while confronting previous mental paradigms, enabling transformational learning moments to occur (Donahue, 2011). Paradigm shifts are possible after servicelearning courses, as students have the mental schemes, challenge the status quo,

Jacoby (2015) stated that there are multiple definitions of service-learning used by researchers and practitioners today. She deService-learning is one of the most explicit purpose (Tapia, 2010). forms of experiential learning. Students complete service hours in a community setting where they are transferring classroom learning and at the same time challenging their own assumptions through planned reflection activities (Hale, 2005).

model where service-learning is seen as a distinct, blended form of community-based The current Mexican model implies that work and experiential learning together, all higher education institutions include placed in between these two types of learning programs respectively. Considering one Mexican university requires its students community-based work on one side, there to conduct their final research project by is volunteerism, which is providing a service studying a relevant issue in a local commuwithout any reflection or applied learning. Then there is community service, which is 2016). In Argentina, the first record of using focused on the benefit of the organization service-learning dates to 1978, and in Chile or community in a more structured way, it started in 2000 (Tapia, 2007). Professors but does not necessarily include reflection. Within experiential learning, there is incorporate an experiential class project the internship, where the focus is on the where students were required to go into a student or provider of the service and the community and make videos about current emphasis is on learning from practical experience. In this case, learning may not be community organization. connected to a course or may not include a reflection requirement. Another form of this learning is course-based, where the service is connected to the curriculum or profession that is being learned. In between these two types of learning is service-learning, where there is a balance between the benefit to the student and the benefit to the community. Reflection is significant to service-learning because the program has to emphasize different types of learning objectives. Also significant is the reciprocity between the students and the community (Jacoby, 2015).

Context of Study

This study focused on an aspect of experiential and transformational learning that influenced the development of college students. The main objective was to find the impact a hybrid mandatory service-learning course had on the civic attitudes and skills of Ecuadorian college students.

Service-Learning in Latin America

Service-learning in Latin America has particular connotations that distinguish it from other service-learning practices around In Ecuador, the Organic Law of Higher the world. The word service is used inter- Education was passed in 2010 in order to changeably with the word solidarity, where regulate both public and private univerthe work is performed between partners in- sities. One of the components of the law

and learning along with reciprocity between volved in an egalitarian relationship to seek the recipients and the providers of service. the greater good rather than for an altruistic

One of the first forms of service-learning in Latin America occurred in Mexico in 1910, where service hours were mandated for higher education students. This initiative was not service-learning as we currently know it; however, it was the start of the Jacoby (2015) explained Furco's (1996) current use of service-learning in a higher education context in the Western world. some form of social service. For instance, nity and sharing results with them (Tapia, in a university in Argentina decided to social issues that would benefit a particular

> Another way of using service-learning is to incorporate this methodology into a practicum or internship class where students use knowledge and skills from their majors to create concrete projects for community partners. For example, education students in Argentina created material for a group of public school students with learning disabilities to help them reach their potential (Tapia, 2016). In Chile, the Ministry of Education provides funding for servicelearning initiatives within higher education and promoted the implementation of service-learning programs in secondary schools through the Solidarity Schools program from 2002 to 2010 (Tapia, 2016). In Brazil, there is a law requiring inclusion of environmental education at all education levels, and some universities are using the service-learning model to fulfill this requirement (Tapia, 2016). Other countries, such as Uruguay, work closely with the Centro Latinoamericano de Aprendizaje y Servicio Solidario (CLAYSS; Latin American Center for Service-Learning) to implement service-learning programs in elementary schools (Tapia, 2004).

datory for all undergraduate students. Notably, this particular college is among Students must fulfill a community engage- the best higher education institutions in ment requirement through both practicum Ecuador, being classified as category "A" and internship hours related to their fields by the Ecuadorian national accreditation of study and community needs (CES, 2017). agency for higher education (Universidad The service-learning model is not included San Francisco de Quito, 2017). It is sensible in this Ecuadorian law; however, a private to conclude that this institution gathers Ecuadorian university has been using the a very privileged group of the country's service-learning model since 2011 (referred higher education students. to as PASEC, Programa de Aprendizaje v Servicio Comunitario or Community Service-Learning Program) as a requirement for all undergraduate students (USFQ, 2017).

Tapia (2004) suggests that one of the particular characteristics of service-learning in South America is inclusiveness, since the vulnerable population is going to be actively participating in the service-learning project and the students participating are also facing social problems of their own. Thus, service-learning activities in Latin America are usually targeted toward press- In the control group, the age range was ing problems such as poverty, hunger, and 18 to 32 years old, with participants from unemployment, where students work with a variety of majors. For example, 25% of a particular community group in order to the students in this group were studying find common ground and solutions to their medicine, 6% chemical engineering, 5% particular issues. Universities in Latin economics, 4.5% dentistry, 4% administra-America tend to organize service-learning tion, and 40% architecture. opportunities through student unions or extracurricular departments that are not part of a particular school or a university program (Tapia, 2004). Both mandatory and voluntary service-learning options are found within higher education institutions in Latin America with no conclusive evidence concerning which has a more significant impact (Tapia, 2007).

Methodology

Setting

Ecuador is a country with four diverse Before the data collection process, IRB apregions: the Mountain region, the Coast, proval was secured and each student signed the Rainforest region, and the Galapagos informed consent to voluntarily participate Islands (INEC, 2015). A significant number in the study. The data was collected via of Ecuadorians still do not have their basic both a survey and semistructured interneeds met and live under the poverty line. views. The survey instrument used was Many families do not have adequate hous- the Civic Attitudes and Skills Questionnaire ing, clothing, food, health care, or educa- (CASQ) developed by Moely et al. (2002). tion. The study took place in Quito, Ecuador, As the authors explained, this instrument at a private liberal arts university founded was "designed to measure attitudes, skills, in 1988. The college has an active diversity and behavioral intentions that might be afscholarship program that recruits students fected by service-learning participation" (p. representing the 13 different Indigenous 15). The instrument began as an 84-item nationalities within the country. It has questionnaire, developed based on a review a strong international program that at- of literature that attempted to measure the

included community engagement as man- tracts around 500 students per semester.

Participants

Demographic information about the sample can be found in Table 1. The total sample size was 396 students. There were 176 (44.40%) participants in the control group and 220 (55.60%) participants in the experimental group. In total, there were 218 (55.10%) female students and 171 (43.20%) male students. However, 7 students did not specify a gender (1.7%). The average age from both groups was 20 years old.

The age range in the experimental group was 18 to 44 years old. In the experimental group, 30% of the students did their service hours with children 0-5 years old, 11% worked only with ages 6-11, 8% worked only with ages 12–17, 7% performed their hours only with adolescents, and 8% worked only with adults (18 years of age or older). In addition, 43% of students worked with two or more age groups as shown in Table 2.

Data Collection

Table 1. Demographic Characteristics of Each Sample					
Female Male					
Gender	55.1%	43.2%			
	Control	Experimental			
	<i>N</i> = 176	<i>N</i> = 220			
Major					
Medicine	25%	0%			
Chemical engineering	6%	5%			
Economics	5%	7%			
Dentistry	4.5%	0%			
Administration	4%	0%			
Architecture	40%	14%			
Civil engineering	0%	4%			
Industrial engineering	0%	6%			
Law	0%	5%			
Other	4.1%	55.8%			
Undeclared	11.4%	3.2%			
Year in college					
Freshman	48.3%	3.2%			
Sophomore	33%	24.5%			
Junior	6.8%	38.2%			
Senior	2.3%	22.7%			
Fifth year	1.1%	11.4%			
Did not respond	8.5%	0%			
Ethnicity					
Mestizo	89.8%	95%			
White	5.1%	3%			
Indigenous	2.3%	0%			
Asian	0.6%	0%			
Did not respond	2.2%	2%			
Age range (years)	18-32	18-44			

Table 2. Service Experience Character	istics
Age groups of service beneficiaries (years)	
0-5	30.5%
6-11	11%
12-17	8%
18+	8%
Multiple age groups	42.5%
Students worked with:	
One age group	57.5%
Two or more age groups	42.5%
Service organization area	
Urban	82.3%
Rural	15.9%
Urban and rural	0.9%
Did not respond	0.9%

versions and analysis, they ended up with extracted using a principal component anal-45 items divided into 6 factors:

- *Civic Action* (asks if students plan to 1. engage in future civic action such as volunteering, being an active community member, or helping clean the environment)
- 2. Interpersonal and Problem–Solving Skills (asks about students' abilities to work with others and solve conflicts with them)
- Political Awareness (asks about students' 3. knowledge of current events facing their community, nation, and the world)
- 4. Leadership Skills (asks about students' identification as leaders)
- Social Justice Attitudes (asks about stu-5. dents' attitudes toward poverty)
- 6. Diversity Attitudes (asks about students' attitudes toward people from different backgrounds)

six factors can be found in Table 3.

comprehensive instrument to measure special emphasis was given to the reflection the outcomes of service-learning, it was piece using technology. The content, readdesigned in English. Therefore, the instru- ings, and activities of the eight modules of ment was translated and in January 2015, a the course were updated with multimedia factor analysis was conducted with a revised material to maximize the interactive com-

effect of service-learning. After various trial translated version of the CASQ. Factors were ysis for the six fixed factors. Varimax rotation with Kaiser normalization was used, and the six factors represented 48.64% of the variance. There were no changes to the instrument suggested by this factor analysis.

> In May 2015, this mixed methods case study was conducted using the new version of the CASQ. Approximately 220 learners took the required service-learning course. Their scores were compared to the scores of a control group of 176 learners who did not take the mandatory service-learning class but were taking other courses during this academic period.

We analyzed the impact of a redesigned mandatory service-learning hybrid course using a control group to rule out test-retest score variation. In addition, we conducted 10 in-depth interviews about transformational learning with students representing the five quintiles of scores on the pretest from the experimental group. These interviews were The corresponding questions for each of the evaluated with both inductive and deductive procedures for qualitative data analysis.

Although CASQ is the most recent and In the redesigned service-learning course, a

Table 3. Civic Attitudes and Skills Questionnaire (CASQ) for Evaluation of Service-Learning Outcomes
Factor One: Civic Action
I plan to do some volunteer work.
I plan to become involved in my community.
I plan to participate in a community action program.
I plan to become an active member of my community.
In the future, I plan to participate in a community service organization.
I plan to help others who are in difficulty.
I am committed to making a positive difference.
I plan to become involved in programs to help clean up the environment.
Factor Two: Interpersonal and Problem-Solving Skills
I can listen to other people's opinions.
I can work cooperatively with a group of people.
I can think logically in solving problems.
I can communicate well with others.
I can successfully resolve conflicts with others.
I can easily get along with people.
I try to find effective ways of solving problems.
When trying to understand the position of others, I try to place myself in their position.
I find it easy to make friends.
I can think analytically in solving problems.
I try to place myself in the place of others in trying to assess their current situation.
I tend to solve problems by talking them out.
Factor Three: Political Awareness
I am aware of current events.
I understand the issues facing this nation.
I am knowledgeable of the issues facing the world.
I am aware of the events happening in my local community.
I plan to be involved in the political process.
I understand the issues facing (my city's) community.
Factor Four: Leadership Skills
I am a better follower than a leader.
I am a good leader.
I have the ability to lead a group of people.
I would rather have somebody else take the lead in formulating a solution.
I feel that I can make a difference in the world.

Table 3. Civic Attitudes and Skills Questionnaire (CASQ) for Evaluation of Service-Learning Outcomes Continued

Factor Five: Social Justice Attitudes

I don't understand why some people are poor when there are boundless opportunities available to them.

People are poor because they choose to be poor.

Individuals are responsible for their own misfortunes.

We need to look no further than the individual in assessing his/her problems.

In order for problems to be solved, we need to change public policy.

We need to institute reforms within the current system to change our communities.

We need to change people's attitudes in order to solve social problems.

It is important that equal opportunity be available to all people.

Factor Six: Diversity Attitudes

It is hard for a group to function effectively when the people involved come from very diverse backgrounds.

I prefer the company of people who are very similar to me in background and expressions.

I find it difficult to relate to people from a different race or culture.

I enjoy meeting people who come from backgrounds very different from my own.

Cultural diversity within a group makes the group more interesting and effective.

ponent in the online portion of the course. choosing 10 as the sample size was prac-The redesigned hybrid course used a learn-tical, as the summer course only lasted 8 ing management system and discussion weeks, and the researchers' time was highly forums as one of the reflection strategies. limited. All interviews were conducted with According to Waldner (2015), the hybrid students from the service-learning course learning model used in this specific course and not the control group, as the focus of corresponds to what she calls eService- the study was the service-learning course. learning Hybrid III, which is a blended class that uses some form of instruction and/or service online.

lowed an experimental design since the and agreed to participate. Thus, a total of independent variable (group) was manipulated to determine if civic attitudes and qualitative research, the 10 students were skills (dependent variable) had any effect. Self-selection bias can be controlled by administering a pretest to determine how be learned (Merriam & Tisdell, 2015). More similar groups are at the beginning of the specifically, the participants were purposestudy (Steinberg et al., 2013). A multivariate fully selected using a maximal variation analysis of variance (MANOVA) was used in sampling strategy, which involves the sethe analysis to control for differences between control and experimental groups. range of characteristics (Creswell, 2012). Using multiple designs is recommended in This strategy was chosen because the variorder to understand more deeply what is ability in sample characteristics strengthens being researched (Steinberg et al., 2013).

The sample for the qualitative section of despite all of the differences in the sample. the research was 10 students enrolled in The sample was varied in the following crithe service-learning class. The reason for teria: gender, ethnicity, age, major, year of

Nine of the 10 students originally selected for the interviews agreed to participate and were interviewed. One was no longer taking The quantitative part of this study fol- the course, so another student was selected 10 students were interviewed. As in most selected using "purposeful sampling": selecting a sample from which the most can lection of individuals representing a wide the arguments for potential generalizability of findings, when findings are recurrent study, and service-learning group. The first the CASQ questionnaire twice (once before criterion was the service-learning group, and once after the intervention). The differas the main goal was to select participants ence between the posttest and pretest scores taking the course with different professors was calculated for each of the six themes in diverse classrooms, since the focus of the study was to learn about the course and not the individual instructional approach.

Findings

Quantitative Analysis

The first steps in the quantitative analysis were multiple independent sample t-tests to compare the pretest and posttest total scores of each theme, as well as the total scores of the control and experimental groups. The results are shown in Table 4. There was a significant difference in the Table 5. means for the control group and the experimental group on Factor 1: Civic Action; Factor 2: Interpersonal and Problem-Solving Skills; Factor 5: Social Justice Attitudes; and Factor 6: Diversity Attitudes. There was also a significant difference in the means of the total scores on the pretest between the control group and the experimental group. These results suggest that the two groups' dependent variables were different from the start. Therefore, subsequent analyses were performed with the difference in scores instead of the total scores, in order to focus specifically on the variance that the intervention may account for.

Since the main objective of this study was to t-tests showed an increase in the average determine the impact the service-learning postintervention (after taking the service-course had on students, participants took learning course). When the experimental

the CASQ questionnaire twice (once before and once after the intervention). The difference between the posttest and pretest scores was calculated for each of the six themes before comparing the averages of these differences between the two groups. For this purpose, a MANOVA was used to identify the possible effects of the different independent variables on various dependent variables (Hernández, Fernández, & Baptista, 2010). The MANOVA showed a significant difference between the control and the experimental groups. Follow-up independent sample *t*-tests revealed a nonsignificant difference between the control and the experimental group in Factor 1: Civic Action. However, significant differences were found in the rest of the CASQ factors as shown in Table 5.

The results of the multivariate analysis of variance (MANOVA), through Wilk's index, suggest a significant effect between groups (control and experimental) and the averages of the differences (before and after taking the service-learning course) of the CASQ themes. Partial eta square identifies the proportion of the variance of the dependent variable that is explained by the independent variable (Field, Miles, & Field, 2012). In this study, the value of partial eta square was .07, which means that 7% of the experimental and control group differences can be considered an effect of the intervention. The results of subsequent independent t-tests showed an increase in the average postintervention (after taking the service-learning course). When the experimental

Table 4. Means and Standard Deviations					
	Con	Control		Experimental	
	<i>N</i> = 176		<i>N</i> = 220		
	М	SD	М	SD	
CASQ Scale					
Civic Action*	33.48	5.67	34.64	4.81	
Interpersonal and Problem-Solving Skills*	50.61	6.48	52.64	5.64	
Social Justice Attitudes*	28.90	3.81	29.96	3.79	
Diversity Attitudes*	18.12	3.37	19.03	3.55	
Total Scores*	171.25	16.62	177.06	15.45	
Note. Factor 5 and Factor 6 (Political Awareness an significant differences. *p < .05.	nd Leadership Sl	kills) were no	t found to hav	'e	

	Control N = 176		Experimental N = 220	
	М	SD	М	SD
CASQ Scale				
Civic Action	0.76	0.45	-0.14	0.31
Interpersonal and Problem-Solving Skills*	1.09	0.57	-0.59	0.48
Political Awareness*	0.57	0.32	-0.98	0.28
Leadership Skills*	0.56	0.22	-0.26	0.19
Social Justice Attitudes*	0.96	0.30	-0.65	0.29
Diversity Attitudes*	0.59	0.26	-0.45	0.24

differences were statistically significant in course, and its possible impact. all cases except for Factor 1.

Cohen's d was reported as an index of effect hour long. Students were reminded of the size, with their corresponding confidence purpose of the study and their rights as intervals at 95% for all pairs. These indices provide descriptions of the size of the and sign a consent form before beginning. observed effects that are independent of Students consented to be audiotaped to any distortions related to the sample size facilitate transcription and data analysis (Fritz, Morris, & Richler, 2012). The range and were assured only the research team of Cohen's d values varies from .17 to .39, and when compared to the levels proposed The interview was semistructured with six by Cohen (1988), it can be concluded that open-ended questions that mirrored the six there is a small effect size, meaning there is areas of the survey (civic action, interpera real effect but the difference between the sonal and problem-solving skills, political control and the experimental group is not awareness, leadership skills, social justice very large. In conclusion, the results suggest that after taking the service-learning course there is a statistically significant increase in the averages of Factors 2, 3, 4, 5, and 6, with a small effect size on the sample and inductive. For the inductive analysis, of students at this university.

Qualitative Analysis

In basic qualitative research, researchers are "interested in understanding the meaning a phenomenon has for those involved" (Merriam, 2009, p. 22) and "how people make sense of their lives and their experiences" (p. 23). For this study, a qualitative their views for each factor. component was included to obtain more detailed information from the survey collected; Identifying new categories. Beginning with for example, the reason why students se- each theme, we identified "segments in lected certain answers on the questionnaire. [our] data set that is responsive to . . . re-Also, the interview attempted to explore to search questions" (Merriam, 2009, p. 176). what degree students thought their views The next step involved placing segments

and control groups were compared, these changed while taking the service-learning

The interviews were approximately one research participants, then asked to read would have access to their specific answers. attitudes, and diversity attitudes).

The qualitative data analysis was conducted in two different ways: deductive the transcribed interviews were analyzed to find patterns that emerged from the data. We followed open coding with exemplary quotes from the data and then merged certain categories, then analyzed it again with the merged categories. For the deductive analysis, participants' answers to the questions about each theme on the CASQ test were analyzed separately to summarize

As needed, these categories were split or increases their levels of motivation (meamerged using axial or analytical coding sured as a multidimensional construct), (Merriam, 2009). Thus, a summary of the including intrinsic motivation. perspectives of the 10 participants was constructed for each of the six CASQ themes synthesized in the spreadsheet. We then scanned the transcripts again in search of illustrative quotes and added them to the text. From the inductive analysis of the data, additional new categories emerged that did not correspond to the CASQ. These categories are listed below.

Empathy. Some students reported feeling empathy after working with street children and trying to put themselves in their position. As one student stated:

Feeling empathy itself is super cool because they are children at risk . . . then it is beautiful to share time with them and also feel what it is to walk in their shoes because we often see them on the street and say "what a shame!"; but in the end, we never know what [story] is behind each one of them.

Everhart (2016) found that college students are more likely to develop their empathy through service-learning when they are able to observe emotional experiences of others, have more responsibility at their placements, and have opportunities to learn more about an individual's background and course content. For instance, gerontology personal life.

Commitment. Students described how they on their concrete experiences working with were intrinsically motivated to do the a specific group of elderly citizens (Blieszner work. One student said he was motivated to research different techniques for working the key to connecting the theory and pracwith the elderly and summarizes his reflec- tice is guided critical reflection. tion as follows:

For example, in this class of PASEC I was volunteering at the center, just going there. I helped in the kitchen, talking to the grandparents; but it forced me to search the Internet or some other sources: First, what are the elderly?; what is geriatrics?; some psychology for the elderly and also on YouTube for ways to plan activities for them who are the most in need.

into categories and subcategories. Reading Levesque-Bristol and Stanekthat (2009) through the transcripts one at a time, an- found that service-learning courses with swers were synthesized by a word or phrase hands-on experiences, such as this one, (open coding) and added to a spreadsheet. support students' autonomy, which in turn

> The Connection Between Service and Theory. Some students articulated how they saw connections between their service placements and the topics discussed in class. One student realized the connection between theory and practice by commenting on the importance of analyzing the theoretical content in readings and videos and her experience in the community. She stated:

I think more is learned in practice and readings are a complement. In practice, it is like living the reality of how the situation is. For example, the theme of this week was health and we watched a video and read: but in the end, there are many things in the video I did know but I did not realize what was actually happening. The theory and practice are complements but I think the most important thing is to be with them, live what they live, the things you have and share time with them because, in the end, they are awesome.

Some universities offer course-based service-learning opportunities that allow students to connect their experience with students directly related their understanding of the dynamics of social services being Intrinsically Motivated by Experience, Increased analyzed in the classroom while reflecting & Artale, 2001). As Jacoby (2015) mentioned,

> Awareness of Ecuador's Social Reality. Students talked about being more aware of Ecuador's social reality. One student reflected on her awareness of Ecuador's social reality after the class:

I think before the class I was a bit negligent about the situation and I think that's what happens with a lot of young people that we do not stop to think about what is happening. I think this class kind of draws

us to reality and says "Hey! wake up, this happened"; It has forced me to think; to listen to the news; to be more conscientious about what happens.

This theme is very related to the more recent term "critical service-learning" (Carrington, Mercer, Iyer, & Selva, 2015). Critical service-learning is geared toward understanding the cause of injustices and encouraging students to see themselves as agents of social change. Although there was clearly an expanded awareness about their country's reality, this awareness was not necessarily always linked to the students seeing themselves as agents of change.

Transformational Learning. Five students two gave ideas of how they would do this. reported that they were reflective of their mental schemes about topics such as poverty and religious beliefs during the course. For example, one student stated:

Then I realized that there are many reasons to have poverty, which is not just saying "people are lazy," but there are people who suffer neglect and are abandoned; they are exploited and there are also people who are not mentally able and it is difficult for them to get jobs and that taboo exists.

As stated before, this course incorporated discussion questions to promote reflection. In the discussions both in class and online, older people they worked with. Seven menstudents are confronting their previous tioned working collaboratively, especially mental paradigms and some of them may with other volunteers and adults at their have transformational learning moments service-learning site. Eight of the ten in-(Donahue, 2011).

Analysis of CASQ themes. For the analysis based on the CASQ themes, the deductive approach by Merriam (2009) was used. A table for each subquestion resulted, showing how many participants had alluded logically and analytically, as one said: to each response category; in some cases only one; in others, seven or more. Thus, we were able to estimate the recurrence of certain answers as shown in the text that follows.

Theme 1: Civic Action. Eight of 10 interviewees participated in volunteer work before taking the PASEC class. Six of them volunteered because of high school requirements. In general, the participants showed great In general, most participants mentioned appreciation for volunteer work and the that they exercised most of their skills service hours they performed during the during their service hours, and not in class.

course. As one person said:

I thought it was a really interesting activity. It's really like seeing another world outside your bubble. It's seeing how other people live, the problems, and how in other places life is more difficult. It's also a good activity because it helps you help other people that most need it. It's like it does open your mind, it makes you more grateful for what you have.

Most participants reflected these sentiments, saying how they enjoyed it. Four interviewees mentioned that they would want to be more active in the future, and

A study conducted with undergraduate students participating as mentors with atrisk children facing mental health-related issues in a poverty situation demonstrated that a service-learning experience that promotes understanding a concrete reality and that fosters reflection, reciprocity with the community partner, and responsibility while performing the service hours, could increase civic action and engagement in its participants (Weiler et al., 2013).

Theme 2: Interpersonal and Problem-Solving *Skills.* Eight of the participants said they exercised the skill of listening, especially during their service hours. For example, many mentioned listening to children and terviewees said they had made friends, especially with children and other volunteers. Four participants mentioned helping solve conflicts between children and communicating, especially with children. Only three participants mentioned having thought

In other classes, I must also be thinking logically. Actually, I think the whole university is very much focused on this. In the servicelearning class, yes because we talk and debate about topics and analyze them, but I don't know if above what is done in other classes.

One student mentioned learning something new about how to work with children from the "theoretical" part of the class, and an- These realizations about how complex reother one spoke of the service hours:

So, in the organization, I really had to work with other people and I've always been a more individual person that works alone, not in a group. In the organization with the other volunteers, you have to work in a group and develop that skill because we all have to be there for them. So I think that yes, yes it has helped me with that.

Overall, students' perceptions about improving their interpersonal skills support the findings of previous studies that show students who participate in service-learning Theme 4: Leadership Skills. Six participants report improvement in interpersonal skills such as verbal communication, leadership, and teamwork (Hébert & Hauf, 2015).

Theme 3: Political Awareness. Students taking college courses that involve a service requirement could be hesitant to work within a community, as they are not necessarily aware of what their communities are experiencing and might doubt whether their service hours can have a real impact. As suggested by Sylvester (2011), students' concerns need to be addressed from an instructional approach and other students previously involved in service-learning could share their perspectives to help overcome resistance to perform service hours. Students' political awareness as a theme is also related to the new category Awareness of Ecuador's Social Reality.

Five participants mentioned that they do generally feel quite well informed. They spoke of reading newspapers, watching the news, and speaking with family and friends. In the words of one of them:

So, I think I have learned a lot with the class: I've read everything on the platform and it's very interesting, very complicated, everything that is happening. Sometimes one says "poverty: poor lazy people that don't work," but in reality, there are many themes that contribute to the reality that a person is poor and there are various types of poverty and more. So, I think that this class has taught me a lot, has made me think, start listening to the news and be more aware of what is happening.

ality is have also been found by previous studies. For example, undergraduate students taking a sociology class were directly involved in a local community, able to analyze their internal organizational policies, dynamics, and budget constraints, and realize how politics work at a local level. They reflected upon their role as politically engaged citizens at that level, and the extent of influence they could have on issues such as social justice, poverty, and discrimination among others (Guenther, 2011). Similar experiences can be replicated to promote political awareness among undergraduate students.

mentioned exercising leadership skills during their service hours, when they were in charge of children and managed to supervise them. One person also said she exercises leadership skills by organizing her own work and making decisions. In the words of one of them:

I think so because the fact of standing in front of children and making them pay attention to what you're doing, it's a way to lead and not just pick up and say "sit, this is so." You have to explain to them what to do and relate to them; so that they do not feel forced or pressured. It should be like "she is doing that; it's good; looks good and fun, then I'll do it too," so I think that it is quite important. They are 12-yearold children and they are more difficult to handle and are not like little children to tell them "sit," it is different, then I think I developed leadership a lot and ability to control a little.

Students who believed this experience helped them exercise their leadership skills might have said so because this particular course creates a space for students to choose and shape their experience. According to Wurr and Hamilton (2012), service-learning projects foster leadership skills because they encourage students to become coproducers of knowledge.

Theme 5: Social Justice Attitudes. Participants were asked why they thought there was poverty and/or inequity in Ecuador. Their

answers varied, with each participant mentioning one or more of the following reasons. All participants agreed that poverty and inequity should be reduced, although one clarified that he/she thought only poverty was a problem, not inequity. As one thought that people were poor because participant said:

Something that seems key to me is education because from my point of view if you have an education, the rest comes. So if you have an education, you can move ahead even if your family didn't have the resources. You were able to get an education and move ahead, and now your children can move ahead. So, it can be that if you have more resources and you can help someone, you do it and you give them a job. But I think the most important thing is education.

Other ideas mentioned include raising awareness, ensuring equal opportunities, people different from them. Six mengetting people who have a lot to realize tioned Indigenous peoples, five mentioned how much could be accomplished with people of low socioeconomic status, and them having a little less, and ensuring basic three mentioned people from other provservices for all (health care, security). All inces. Others mentioned Europeans, Afrorespondents said that the service-learning Ecuadorians, people with disabilities, people class influenced their views on poverty in with a different sexual orientation, and reone way or another. Five said they now ligious people. As one explained: knew more, one specifying that she/he did not previously know the relationship between child malnutrition and poverty. One spoke of understanding the complexity better, and two spoke of feeling more aware and empathetic after seeing things firsthand. Three spoke of how they changed their views, and in the words of two of them:

Mostly, I thought like "they're poor because they feel lazy," but sometimes, on the other hand, it's like a more cultural problem because it's not like people who don't have resources are lazy because they are hard-working people, and I hadn't realized that. Now I see and it's like these people do work, even small children want to work. But it seems it's the opportunities.

So I remember that we were on the poverty unit and we saw videos and people spoke and it did make me change my views on that we don't know the personal situation . . . we don't know anything. Maybe some

are lazy, but there are many people that for some reason have had a hard time moving ahead.

Thus, it seems some participants initially they did not want to work, but began to question this assumption and see a more complex assortment of possible reasons. A qualitative study with undergraduate Latino students taking a Spanish Language and Culture for Heritage Speakers servicelearning course revealed that participants gained a deep sense of the inequality, lack of access to services, and discrimination the marginalized group they worked with experienced within their communities (Petrov, 2013). These findings suggest that servicelearning courses can be connected with social justice education and undergraduate students.

Theme 6: Diversity Attitudes. Nine respondents said they had opportunities to meet

I think that as a preference, it'll always be someone similar to you ... but even so, I have no problem interacting with people who are not the same. But as people, I think we always prefer people who are more similar to us.

The last question of the interview asked participants whether they thought their views regarding people different from themselves changed after taking the service-learning class. Only five responded, and most spoke of becoming more sensible or reaffirming views they already had. One spoke of a change of view:

In the PASEC class it's like we shared a ton of things that people had in their different places. For example, there's a girl that is working with people from the LGBT community and the view of how she speaks and what she speaks about makes you feel really comfortable. And I, who do not belong to this community, can feel good with

them. So, yes it makes you question how you can get along with people that are different from you in certain things, but if you get to know them more, they can be similar to you in other things.

Students' responses do not point toward a change in their beliefs about diversity. It could be that students already had a positive attitude about diversity, or it could be that lationship between the theory reviewed in this experience did not necessarily change their initial attitude. According to Bowman and Brandenberger (2012), to help promote student growth, faculty should facilitate diversity experiences that are contrary to students' expectations. This could be a key to improving courses like this in the future, where specific experiences are planned within the course for students to interact with diverse groups in a positive way.

Conclusions

This mixed methods study was conducted to determine if a mandatory hybrid servicelearning course had an effect on the civic attitudes and skills of college students attending a private university in Ecuador. A the quantitative part of the study, and in-

In regard to the quantitative data analysis, MANOVA and follow up *t*-tests with the control and experimental groups' difference of scores showed that Factor 1 (Civic Action) was not significantly different between the groups, whereas the other five factors showed a significant difference. Previous independent sample t-tests with the pretest scores showed that the two groups started significantly different in their civic attitudes and skills. This difference may be explained by the demographic differences between the groups, the most relevant being the year of study. The control group was formed by 6% juniors and 3% seniors, with the majority being freshmen and sophomores. On the other hand, the experimental group was 38% juniors and 33% seniors, with a minority of freshmen and sophomores.

Qualitative data analysis followed both an inductive and a deductive approach. As a t-test of the pretest-posttest between the result of an inductive analysis of the in- experimental and control groups. It seems terviews, new themes emerged such as that service hours are becoming a normal empathy, increased commitment due to experience for Ecuadorian youth, and these experience in service-learning, the con- experiences may positively influence their nection between theory and service hours, attitudes toward civic action.

awareness of Ecuador's social reality, and transformational learning. Students reported that they were able to put themselves in another person's position while performing their service hours. Also, students described that once they were involved in their service hours, they felt motivated to continue to work with the group they started working with. During the interviews, students reported a clear understanding of the reclass through readings and assignments and the work performed in the community. Students felt they were more aware of their country's social reality after their service hours and reflected on their personal mental schemas about poverty, working with the elderly, religious beliefs, working with unfamiliar groups, and challenging prejudice about certain groups. These results suggest that this may be a particularly effective intervention for students from privileged backgrounds, such as the participants in this study, to become sensitive to the living conditions that other groups in their country have.

The deductive approach was used to analyze the interviewees' responses as they related quasi-experimental design was followed in to each of the six themes on the CASQ. In this analysis, the interviewees showed how terviews were used for the qualitative part. the course had a positive impact in each of the six themes: civic action, interpersonal and problem-solving skills, political awareness, leadership skills, social justice attitudes, and diversity attitudes. These differences correspond to what was found in the quantitative analysis. Specifically, in the Civic action theme, most participants mentioned that they were somehow used to doing volunteer work. This affirmation corresponds to the fact that in this country there are mandatory community service hours for high school students and college students. Somehow, it is seen as a normal requirement and part of their academic and career preparation. For this reason, many interviewees mentioned they were already committed to volunteer work. The fact that they mostly had previous volunteering experience and were already committed to service may explain why there was not a significant difference found in the

ticularly useful in this study to explore the litical awareness and leadership skills, and reasons behind the quantitative results. becoming more sensitive toward issues Finding positive impacts of a course in- of social justice and diversity. Therefore, tervention is not as informative as having higher education institutions may consider students' views on different aspects of the adopting similar hybrid courses. course's impact. Through the qualitative analysis, a more detailed description of Qualitative data shows that students' serwhy each factor had a significant quantitative improvement was revealed. An induc- internal motivation to learn more about a tive data analysis provided insight on the topic. For example, students working with course's impact on student learning and on elderly patients became interested in aumotivational aspects that could be explored tonomously learning more about geriatrics. further in future studies. Important ele- Thus, higher education institutions could ments about the intervention were high- harness service-learning to increase stulighted, like the importance of direct service dents' motivation for their area of study. that provides hands-on experience, high Qualitative data also suggests that hybrid levels of autonomy, and emotional experi- service-learning models connecting theory ences. Also, the fact that this is a manda- and practice can lead to transformational tory course but students talked about their learning, where students question their beintrinsic motivation to perform the service liefs and change their perspectives. Thus, was a particularly interesting finding.

Implications and Recommendations

The results of this study contribute to a continued exploration of developing civic attitudes when taking a mandatory servicelearning course in Ecuador. The use of the is evolving in this region. The next steps control group allowed us to determine the real impact of the course, which was positive and significant. These positive findings should persuade decision makers to implement similar service-learning models in other higher education institutions in Ecuador and Latin America. The results suggest that similar types of courses may lead to students' increasing their inter-

The mixed methods approach was par- personal and problem-solving skills, po-

vice-learning experiences can trigger their higher education institutions could use such models to foster transformational learning.

We recommend continued research through conducting similar studies, comparing Ecuador's situation with that of other countries in Latin America in order to describe how service-learning in higher education include focusing on exploring relationships with service agencies and the impact these programs are having on the community at large. Also, a longitudinal study to analyze student effects over an extended period of time could clarify the real impact of this particular service-learning course.

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A Case of Service-Learning and Research **Engagement in Preservice Teachers' Education**

Luigina Mortari, Roberta Silva, and Marco Ubbiali

Abstract

This article describes a service-learning program developed at the University of Verona, Italy. This community service research learning (CSRL) program involves preservice and in-service teachers and incorporates learning, community service, and research. We detail the program's theoretical basis and then present the results of a research project conducted with 45 students (preservice teachers) involved in the program during the academic year 2017–2018. The aim of the research was to identify the enrichments students' believe they achieved through their program participation and what they considered most relevant from program participation for their professional improvement.

Keywords: service-learning, teacher education, apprenticeship, professional development, research engagement

tool (Billig & Waterman, 2014), instigated been adopted in many countries all around in part by the passage of the National and the world. According to Stanton et al. Community Service Trust Act (1993) in the (1999), SL has gained prominence, perhaps United States. Today, SL is a pedagogical to the greatest level, in higher education. strategy aimed at connecting community Today, SL is found in every academic field engagement and academic learning in contexts where students are involved in providing a service to a community, trying to contribute to the solution of a need and at increasingly being adopted in many counthe same time learning from the experience tries all around the world. itself (Verducci & Pope, 2001) by connecting what they have learned in class and in Many authors emphasize how SL has the process of giving service to the target become more and more important in the community (Carrington & Saggers, 2008). field of teacher education, first gaining It represents an experiential methodology the attention of teacher educators in the that is now widely practiced in higher edu- United States since the 1990s (Erickson cation (Felten & Clayton, 2011). It's popu- & Anderson, 1997; Wade, 1997). In 2003, larity stems from its capacity to develop Anderson and Erickson (2003) counted more both academic and soft skills, particularly than 300 teacher education programs that as they pertain to civic analysis and re- integrated SL in their curricula. Even though flection (Astin, Vogelgesang, Ikeda, & Yee, many universities have adopted SL practices 2000; Astin et al., 2006; Eyler & Giles 1999). in teacher education programs (Anderson & According to Stanton et al. (1999), SL has Erickson, 2003), research on this practice

ince its first appearance as a peda- est level, in higher education. Today, SL is gogical method in 1966 (Stanton, found in every academic field and every type Giles, & Cruz, 1999), service- of course across colleges and universities. learning (SL) has increasingly While it first appeared in and expanded gained popularity as a pedagogical within the United States, it has increasingly and every type of course across colleges and universities. While it first appeared in and expanded within the United States, it has

gained prominence, perhaps to the great- is not as robust (Kirtman, 2008; LaMaster,

2001). Nonetheless, the amount of research is represented by entering a community is gradually growing as scholars try to fill of practice (Lave & Wenger, 1991; Wenger, the gap that several service-learning schol- 1998). SL builds a context in which the ars have noted (Furco, 2001, 2003; Furco & learner is initiated into the culture of a Root, 2010).

Other scholars have emphasized how SL is useful to enhance elements that are essential for future teachers: (a) the development of teaching skills (Jackson et al., 2018; Wasserman, 2009) and reflective skills (Baldwin, Buchanan, & Rudisill, 2007); (b) a student-centered caring approach to teaching (Buchanan, Baldwin, & Rudisill, 2002); (c) a more complex vision of teaching and learning practices (Maddrell, 2014); (d) an attention to children with special needs (May, Chitiyo, Goodin, Mausey, & Swan-Gravatt, 2018; Russell, 2007), and to children coming from different social and ethnic backgrounds (Carrington & Saggers, mentee, but it also serves as an enrichment 2008; Li & Lal, 2005); and (e) a human service-oriented vision of teaching (Wade & Anderson, 1996) and in building a community of practice (Swick, 2001). Conner (2010) emphasizes that all of these learning outcomes can be reached only if SL is a project designed with a clear pedagogical intentionality and carried out through Moreover, if education is a practice, as a well-structured and long path. If an SL program is not well-structured, instead of predetermined theory that can be applied being really educative, it can confirm and in every context exactly as it is learned in strengthen preconceived notions (i.e., stereotypes, prejudices) that students had at programmed (Dewey, 1929). Educative the beginning of their training (Baldwin et wisdom, as Mortari (2009) asserts is situal., 2007; Chesler & Vasques Scalera, 2000; Coles, 1999; Erickson & O'Connor, 2000; Petersen, 2007), or can generate lack of texts by analyzing their own actions and comprehension or distrust in facing complex situations (Sperling, 2007). In order to avoid such outcomes, it is essential to be part of a context that is entered not with remember that teaching needs not only a preplanned lesson to be taught (as occurs tools (i.e., instructional strategies) but also in many teachers' training programs), but a vision of education able to orient choices and actions (Mortari, 2009).

A Community's Action: Service and Research

Starting from this premise, we can see that sionals adhering to a service perspective. SL the literature indicates different elements can be useful for developing research-based that contribute to developing personal learning with a sensitive look at community and professional achievements. One of the needs (DePrince, Priebe, & Newton, 2011; most important is the connection between Harkavy & Hartley, 2010). Dewey was the preservice and in-service teachers. This first author who conceived research as an connection is important because education essential element for teachers' education, is a practice, and for it to be learned, an arguing that a practice that does not conexchange of experiences, through the co- sider the contribution of scientific inquiry operation between experts and novices, is enforces a conventional way of educating, necessary (Mortari, 2009). This exchange which is at risk of becoming an uncriti-

community and gradually cooperates in building the knowledge that funds it, in a mutual and reciprocal action (Farnsworth, 2010; Hart & King, 2007; Leeman, 2011; McMillan, 2011; ten Dam & Blom, 2006; Yogev & Michaeli, 2011). If the aim of a community is collective improvement, to be part of a community of practice means to look for shared knowledge that arises from working together. For a preservice teacher it is fundamental to learn how to be an educator by sharing educational activities with an expert and being part of a mentoring relationship. Moreover, in an ethical vision, we would like to give form to this relationship not only as a way of learning for the for the mentor and for the whole school community. That is why it is important that the learner acts to benefit the community. SL is a very appropriate method to provide this kind of active support while learning (Boyle-Baise, 1998; Mortari, 2017).

we already have suggested, there is not a books. education, in fact, cannot be preational. Teachers should face the variability of different problems in educational conproducing theories rooted in experience (Mortari, 2017). Teachers' training should rather with an open mind to understand the challenges and a creative look to gain solutions. This is the philosophy that makes SL particularly useful for teachers' training. Anyway, this experience can be possible only if preservice teachers are trained as profescal routine (Dewey, 1929). Mortari (2009), from the assumption that this choice, on the education, but she specified that

asking the teacher to carry out research doesn't mean to ask him/her to become a researcher, because his/ her duty is not to carry out research but to educate through teaching; instead, he/she is asked to give form to a sufficient competence set allowing him/her to rigorously examine practices acted, and to collect data useful to redefine the theory, and so enabling it to promote a continuous improvement of practices themselves. (p. 35)

Even the European Commission (2014) argues that education to perform research is fundamental in teachers' training, starting from the early stages.

The Verona Program

A Revolutionary Policy of Education

According to these considerations, the emphasized. University of Verona (Italy) organized for students of the master's degree in primary school education a SL program that assumes the form of community service research learning (CSRL). The CSRL program has a double aim: (1) to promote learning as a service for the classroom in which the students (60 hours) and the related Workshop (15 are engaged in their apprenticeship and (2) hours). During the course, students become to envision the research for the writing of familiar with the SL theoretical basis and each student's dissertation as a work that the methodological tools needed to plan, answers significant questions raised by observe, document, and analyze their SL teachers-mentors. The program involves (a) experience. More specifically, they learn students of the last two years, (b) in-service how to identify a school need, how to design teachers coming from different schools, and an intervention starting from it, how to use (c) an academic team that has collectively qualitative observation tools, how to create assumed the role of supervisor. We define a qualitative report of the experience, and this program as community research service how to analyze actions to improve their eflearning (Mortari, 2017) because students ficacy. During Step 2, every student (preachieve academic outcomes through a ser- service teacher) chooses the level of school vice action aimed at responding to a specific in which he or she wants to be trained need of a community (in this case a school (kindergarten or primary school), and then community). Moreover, they are also called each student is put in connection with an upon to develop educational research related in-service teacher, paying attention to the to their service action and write a research fact that a good relationship should be esdissertation on their experience.

This model of CSRL is grounded in a revolutionary policy of education: the idea of the university engaged in the community, Step 3 is focused on the identification of serving it with its research and educational the community's need. What differentiates

developing Dewey's intuition, provided re- one hand, reinforces the connection with search in a fundamental role in teachers' the community and, on the other, supports the development of the preservice teachers' research skills. The European Commission (2014) considers such skills as key skills for teachers' training because, in order to understand what is happening in a real context, a teacher must know how to get in touch with authentic and not idealized everyday life, and therefore he or she must know how to look "inside" it (Mortari, 2007). Indeed, university policies of education to perform research should be revised. Too often, in fact, undergraduate students' final dissertations are simply a written reflection about an "intellectual curiosity." This can certainly have an interesting outcome but, in most cases, it remains unknown to the community of practitioners. This lack of binding of the research work to a real-world context causes a lack of significance that translates into a cultural diseconomy. Despite the importance that these skills have for the practice of teaching, the training programs directly aimed at developing them are very few; however, in the CSRL program, their development is

The Structure of the Program

The program is implemented in five steps. In Step 1, students attend the SL program during the Course of Educational Research tablished between a student and his or her mentor, since they have to share two years of school together.

practices (Mortari, 2017). This model starts the Verona program from many other SL

programs is that this identification does their participation in our SL program; and not precede the entrance of the students (2) identify what students consider iminto the context. On the contrary, the com- portant for their personal and professional munity need is defined jointly by the in- growth. Indeed, our CSRL is built on the service and the preservice teachers during conviction that a SL practice helps future the first weeks of their induction as a result teachers develop essential professional of the cooperation between them. Indeed, skills (reflective, civic, teaching, etc.), but, students are called upon to put into action starting from their own experience, what what they have learned during the Course do students really feel they have learned? of Educational Research in order to help Hence, the research question that guides our the in-service teacher identify the problem study is "Starting from their own experion which the action will be focused. Step 4 ence, what achievement do students think concerns the service action: preservice and they have achieved through their involvein-service teachers, by mutual agreement, ment in the CSRL program?" design an action (an educational program, a teaching program, an evaluation program, Coherently to our aim, we developed a study etc.) aimed at responding to the previously that follows an ecological paradigm, acidentified needs. In this phase, the academic cording to the idea that in order to throw team supervises the design of the action, light on something that happens in a real supports preservice and in-service teachers context, you must interview those who are in case of need, and mentors the preservice involved in it (Merriam, 2002; Mortari, teachers in order to guide the achieve- 2007). We chose a phenomenological apment of their academic outcomes and the proach because it is particularly suitable development of the educational research for exploring the meanings that people that they are called upon to conduct. This give to their experience (Lincoln & Guba, interaction between the step focused on the 1985). This method of inquiry is inspired action and the one focused on the research by the phenomenological-hermeneutic is symbolic of the interaction between two philosophy, because its aim is to examine kinds of knowledge: the academic "news" the problem starting from the subjects' brought by preservice teachers and the deep lived experiences (Mortari, 2007). The data experiential wisdom elaborated by practi- collected are the reflective texts connected tioners.

Finally, Step 5 of the program regards the development of the dissertation that students are called upon to write in order to achieve their degree. The writing of the dissertation is the moment when students put their research project into words, from the needs identification to the collection and analysis of data. Thanks to this writing they reflect on the practice and really learn a pedagogical posture. In this regard, it is worthwhile to emphasize that, during the SL program, students are required to write a reflective journal in which they write thoughts, feelings, and actions related to their SL experience.

The Research Question and the Methodological Framework

Start From the Question

In order to analyze the CSRL program, during the academic year 2017-2018 we decided to conduct a study that involved 45 students, in order to: (1) define what are, according to their experiences, the achievements that these students have earned from by several main "rules" and is organized

to students' dissertations. This method of gathering data leads the researchers to acquire direct knowledge of the subjects' world, following the principle of adherence to reality. The analysis of the data is inspired by content analysis because it allows defining and organizing the meaning of a text to discover its core elements without losing its undertones (Elo & Kyngäs, 2008; Hsieh & Shannon, 2005). This tool is set into a more articulated analysis method that interconnects the empirical phenomenological method (EPM) and grounded theory (GT; Mortari, 2007). This method takes inspiration from the EPM for the posture of analysis that allows us to pay attention to the visible profile of things, remaining faithful to the qualities of the phenomenon and leading to a rigorous description of it. On the other hand, this method is connected with GT because it gives us a way to build a systematic process of analysis through different steps (Mortari, 2007; Mortari & Silva, 2018).

The Process of Analysis

This systematic process of analysis is guided

searcher to proceed in certain ways:

- reading data many times;
- exploring data without a map of ideas or epistemic moves already defined (i.e., cultivating open attention);
- recursively going back to data in order to have the possibility to understand the smallest details;
- being patient: The researcher must develop a restful posture of the mind in order to listen to the text; and
- during the process of constructing the descriptive theory, monitoring the words to enable them to faithfully express the meanings emerging from the analysis itself. (Mortari, 2007)

This tool of analysis is organized into eight steps or phases. The first phase can be considered Step 0, which is aimed at gaining an overall knowledge of the research The research was conducted between overall meaning of the data, in order to provide a context for the emergence of specific units of meaning. In the next step, Step 1 the text is divided into meaning units and the researchers generate descriptive labels for every unit, comparing their ideas and examining the descriptive alignment and they have earned at the end of their SL exinterpretive dissonances between them. perience. The aim of this step is the development of a provisional coding characterized by descriptive labels to identify the specific quality of every meaning unit. Step 2 is optional, but it is needed when something unclear has emerged in the previous step. This step involves holding a specific data analysis session with subjects in order to clarify the meaning of excerpts for which researchers' interpretations vary widely.

In Step 3 the provisional coding is verified make the future teachers able to transition through a recursive process to monitor the from technicians to competent professionals capacity of the coding to describe every unit (He & Prater, 2014), to become someone able of meaning in an adequate and effective to modulate his or her professional behavior way. The aim of this phase is to redefine according to the context of emerging needs the labels, testing their descriptive adequacy (Kellehe & Farley, 2006), and to transform in achieving a faithful conceptualization of his or her own experiences into experiential the different aspects of the phenomena. knowledge. This knowledge leads to inter-Step 4 regards a kind of "tuning" of the rogating practice to construct educational coding, which is refined in order to make it theories and able to enlighten practices, not only appropriate but also clear. In Step 5 rather than merely "applying" knowledge the descriptive grains (labels) are organized that is developed by someone else (Mortari,

in different steps. The rules guide the re- in categories that help us to define more precisely the "shape" of the phenomena we are investigating. In order to complete this step, the labels are regrouped into categories (second-level labels) with analogous types of meaning units, and they are then placed into homogeneous sets, producing a list of categories that characterize the qualities that mark the different aspects of the phenomena. Hence, this step allows the researchers to define the coding of analysis. In Step 6 all the meaning units are classified (using a table) according to the final coding system and, after that, the researchers focus their attention on the categories (or the labels) that emerge to make them more coherent with the research question. This second level of mapping makes clear the distributions, the frequencies, and the interconnections of the various categories, and it leads to the emergence of a descriptive theory inductively constructed through a gradual process of interpretation of the data (Mortari 2007; Mortari & Silva, 2018).

Findings and Conclusion

material, which is necessary to grasp the October 2017 and November 2018 and involved 45 students. Every student is assigned an anonymizing identifier (e.g., S1, C2). The analysis leads us to elaborate a coding system (presented in Table 1) that describes the achievements that students, starting from their lived experience, think

> In this article, we do not present the entire set of findings but, in alignment with the research question that we had submitted, we focus our attention on the professional skills and particularly on the categories "development of research skills," "development of reflective skills," and "development of a service perspective." We focus our attention on these elements because, as we have previously noted, research skills are what

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Table 1. Self-Reported Skills Students Gained From the CSRL Program					
	Increasing of professional knowledge				
	Completion of professional profile				
Professional skills	Development of reflective skills				
	Development of a service perspective				
	Development of research skills				
"Transversal" (or "personal") skills	Development of the skill to learn from mistakes and manage a crisis				
	Development of skills useful to handle the unexpected				
	Development of self-critical skills				
	Supporting motivation				
	Development of collaborative skills				
Interrelational skills	Development of empathic listening				
	Development of a child-centered approach				

necessary to develop reflective skills, be- only as a teacher but also as a researcher" cause it is through reflection that the sub- (D1). jects reelaborate their experience in systematically structured systems of thought, allowing a critical analysis of action that permits the elaboration of experiential knowledge (Eyler & Giles, 1999; McCarthy, 2010; Mortari, 2009; Wade, 1995). The SL experience adds a further enriching aspect because it not only allows the development of research and reflective skills of future teachers, but it does this starting from a service perspective. This connection beechoes the thought of Rorty (2002) and his pragmatist vision of research. According to Rorty, research must be focused on solving the real problems of a context. This is possible only when starting from an ethical posture open to the other's needs, which "should not be understood as the passive bending to every request that comes from the context." Rather it is the ability to be engaged in an action starting from "a negotiation of the meanings that leads to a common framework" (Mortari, 2017, p. 31).

Research Skills

The development of research skills, this of research skills had represented for them is an explicit goal of our program, and the a kind of "catalyst," able to activate other students are made aware of this. Moreover, forms of professional growth. This means from student feedback, we have learned that that the achievement of the research skills these skills are something that students for these future teachers is not only an imconsider relevant for their future profes- portant acquisition on its own, but because sional practice. As one student stated, "I these competencies are connected to the dewould like to bring with me . . . my being a velopment of a critical and analytical vision

2007, 2017). In order to do this, it is also researcher.... I will enter in the school not

In their texts, students express their views of what characterizes the professional profile of a teacher who adheres to a research perspective. The first element that they emphasize is that this kind of teacher is someone who applies the tools that research offers to analyze and evaluate the teaching and learning processes with a transformative purpose. In other words, to be a teacher with research skills means to have tween research and service perspectives a powerful tool that not only represents an interpretive aid for analyzing the context, but also a device to be used in solving the problems that emerge from the context.

> The posture of the researcher leads a teacher to examine in a rigorous way the practices put in place in classroom and [this means] to develop a habit that considers research as something aimed at promoting the quality of educational actions. (R1)

The second element, according to our students' experiences, is that the development of professional practice that enables them problem and propose solutions, but it also to develop a professional practice, they are throws light on the dynamics of thought skills oriented toward lifelong learning.

The research experience had represented a real opportunity for training and learning. [P1]

documents affirm regarding the need for teachers to adhere to a lifelong learning perspective (European Commission, emphasized that this disposition should be cultivated from the early stage of teacher training in order for it to be embedded into the teachers' teaching ethos (Day, 2002). Starting from our students' experiences, the development of a research habit seems to be a way to promote commitment and enthusiasm for lifelong learning.

Something that I have learned from this experience is that a teacher . . . is someone who can be an active actor in the construction of the future of people, being in a lifelong learning perspective with and for others. (Z1)

It is interesting to note that students consider lifelong learning an expression of their the actions. responsibilities toward their pupils. Indeed, in the expression "with and for others" we can find the meaning of educational research that is enrolled in a participatory dimension, not only because it sees the involvement of teachers as active agents in research actions in which the pupils also play an active role (Mazzoni & Mortari, 2015), but also because it acquires meaning through a principle of utility aimed at improving the well-being of the pupils the teachers are responsible for (Mortari, 2009).

Reflective Skills

ment of research skills is strictly connected teacher should be able to reflect in a pendusomething that characterize the profile of itself, and closes, in a circular perspective, a good teacher, so these competencies have with the phases that follow it. The purpose a double relevance in the professional de- of this transversal reflection is to weave, in velopment of a research-oriented teacher. a critical way, the moment of intervention identifying critical areas and assuming ef- more effectively (van Manen, 1995). The fective educational strategies because it is writing of a journal that keeps track of his

that accompany this path (Mortari, 2009). For this reason, reflection is for a teacher "an intentional act of the mind" that makes him or her able to investigate his or her own way of teaching (Lyons, 2002, p. 99), transforming experiences into experiential This statement also recalls what official knowledge, a thoughtful and critical knowledge that interrogates practice to construct theories able to enlighten it (Mortari, 2009). The students' texts emphasized the im-2014). However, many researchers have portance that reflexivity has held for their professional development.

> Self-reflective practice . . . [is an] activity of critical vigilance on thought, which I have been able to exercise along the entire path. (R1)

> [This program] has led me to grow in reflexivity. . . . I have ventured into a continuous reflection on my experience. (01)

The students were encouraged to write a journal that kept track of both the practical and reflective dimensions of their experience. These field notes are composed of observational notes and reflective notes, which draft the thoughts that accompanied

Writing helps to gather the [pedagogical] knowledge and the reflections on it, giving the possibility to retrace one's own step, to be able to observe it from different points of view and to capture aspects which at first you have not notice. (P1)

Writing is essential for the development of future teachers' reflective skills because it helps activate a critical vision of their professional practice that leads to developing "anticipatory reflection"—that is, the ability to reflect on actions in a future-oriented As we have previously noted, the develop- mode (van Manen, 1995, p. 33). Indeed, the to the development of reflective skills. lum that temporally goes from the moment Nevertheless, these competencies are also that precedes the act, transits to the action Reflection is a critical component of think- planning, the implementation phase, and ing that allows us to look at the context, the evaluation, directing future practices not only a cognitive act able to analyze a or her own experience can help the teacher develop this kind of reflection (Mortari, from everyday actions, despite the fact that 2009). Furthermore, writing a journal it is hard to put reflective practice into action helps future teachers develop the narra- during the flow of the teaching activity. tive dimension of their actions; indeed, the The reflective teacher is the one who looks narrative thought allows teachers to revise at his or her own experience, analyzing it their actions starting from multiple points through a variety of tools and from different of view and leads the subject to bring to perspectives, in order to highlight his or her light values, beliefs, and theories that are potential and areas that need improvement subtended to their behavior, guiding them (Mortari, 2009). Reflective competence is to a deeper and better articulated reading essential as a contrast to the idea of teachof their lived experiences (Conway, 2001; ing as a routine practice, which produces Jalongo, Isenberg, & Gerbracht, 1995). a standardization of thought in younger During the program, moments of shared generations and a general failure of critical reflection were also organized in different thinking (Mortari, 2009). All these considforms (peer groups, small and large groups erations have a great impact on the develwith the support of the academic staff, and so on).

An element that I considered essential in developing this experience was the frequent occasions for thinking, either individually or with the help of the team of university professors who supported us. (M1)

This choice has precise reasons: on one hand, peer coaching supports preservice teachers in developing reflective skills because it helps each student go deeper into The Service Perspective his or her own perspective and compare it with others' perspectives. Indeed, peer confrontation leads to developing a kind of reflexivity able to relate, with an open mind and thoughtful approach, to the complexity that characterizes educational contexts (Lee & Choi, 2013; Mortari, 2009). On the other hand, the support of the academic staff is aimed at helping students cultivate the ability to analyze the cases and develop new solutions, keeping contact with the reality estimating the civic role and the transforfrom which it is born and to which it must mative value of these experiences (Gorham, return, accompanying the teacher in a process of elicitation of his or her knowledge perspective that SL promotes is based on through a critical and systematic analysis an idea of equality between all the subjects (Mortari, 2009).

[Reflecting] has always helped me to implement a good teaching and grow professionally. I hope not to lose this ability but rather to further refine it to become a good teacher, able to observe and design following the needs of my students. (S1)

From these words emerges awareness of the importance of reflective practice as a daily habit in order to support the future teachers' capability to continuously reinvest energies in their own professional training starting

opment of the debate on teachers' training, leading to the concept that the development of reflective skills is one of the cornerstones for teachers' professionalism, with a solid theoretical base, an in-depth knowledge of educational contexts, and the improvement of evaluative skills (Yost, 2006).

The third element connected to the development of research and reflective skills of future teachers is the development of a service perspective.

The development of a service perspective is crucial in a SL program, and it is essential to clarify that it should not be interpreted in a pietistic or philanthropic sense that considers "service" as "charity" (Mortari, 2017). Indeed, this interpretation of the concept of service echoes the idea of an act of restitution to society in order to cover a debt that the subject contracts by virtue of a privileged position that can lead to under-1992; Sandaran, 2012). Indeed, the service involved because all of them should "gain" something from the SL experience: the students (development of professional and personal skills) and the community (receiving concrete help in solving a real problem; Kahne & Westheimer, 1996). In this regard, it is interesting to note that the students observed how this is a difficult perspective to assume, particularly at the beginning of the program, because it is experienced in some way as a leap into the void.

Putting oneself at the service of someone "blindly" means in a certain sense take a risk. (C2)

From the texts of our students emerges that what transforms their experience into a positive one, making them really able to develop a service perspective, is the relationship with the in-service teacher. In many cases the relationship between the student (preservice teacher) and the tutor (in-service teacher) was characterized, while their mutual knowledge increased, by respect and collaboration leading to a reciprocal enrichment.

To make oneself available to the other is not a simple thing, initially there are many doubts. In time, however, we get to know each other and if you know and respect someone, you want to help him. (S1)

There are two more elements, partly connected to the relationship with the in-service teacher, that are positively connected to the development of the service perspective: (a) the sense of usefulness that students witnessed in feeling they were part of the solution to a problem that concretely affected the quality of life of a class and (b) the awareness that the in-service teachers trusted them. As regards the first one, many students have emphasized their feeling of being part of the class and therefore being dimension (Mortari, 2017). This gives a new responsible for the solution to the problems of the class, making the service action a goal that they felt as primary.

I was able to experience what it means to actually offer a service. . . . For the first time I felt really useful in the face of a real need for a teacher in the classroom. (B2)

This community and participatory aspect of service-learning is linked to a concretely acted civic engagement in which community From the words of our students emerged the service activities do not represent a corol- idea of service-oriented research, meaning lary of the training path but constitute "the research that wants to be at the service of backbone" capable of promoting a teacher the participants, with the aim of promoting figure characterized by a strong ethical and the improvement of an educational praccivic dimension (Mortari, 2017).

underlined, the importance for students of is thus pursued: to increase pedagogical scifeeling that tutors trust them, in the words ence and qualify educational contexts. To of our students it emerges that this aware- be in a perspective of "service" means to ness is at the base of a new confidence that assume a precise sense of the gift concept, they felt as a "reward" for their actions and which means to give something to the other as a proof of their being able to "make a responding to a personal inner need withdifference" thanks to the alliance they had out expecting something in return. This is made with the tutor.

Planning together . . . with the aim of improve the learning experience of the children has allowed me to feel the value inherent in the service. During this journey, I have always felt useful, and I felt the trust that the teachers had in me and their desire to feel supported by me to discover what was "going wrong." (G2)

This feeling of usefulness emerges from the lived experience of our students to be an element that had a crucial role in the reinforcement of their motivation, particularly in the difficult moments. Anyway, we think that it is important for another reason also. It is through this feeling that students discover their being really part of the community, a part that can concretely contribute to its quality of life. Each student's action of service is therefore not only a "duty" but becomes the manifestation of an idea of civic responsibility that finds its inspiring principles in participation and sharing.

In this sense, the service action takes the role of an actualization of the ethic of care, assuming the principle of mutual wellbeing as a daily and possible inspiration within a genuinely understood community significance not only to the service action, thanks to its being a concrete help that students provide to the teacher, but also through the research actions they carried out with the aim of improving the quality of class life.

Returning the data and reflections to the teacher [...] makes this research [. . .] an authentic service oriented research. (V2)

tice designing new educational experiences and subjecting them to rigorous scientific As regards the second element that we have analysis. At the same time, a dual objective reminiscent of the words of Seneca (Benefits,

I, v, 1, ca. 59 A.D./2000), who defines the acterizes this kind of teacher is (a) ability gift as "a thing that responds to a spiritual to use the research tool interpretively to order" and consists "in the willingness to analyze both the needs of the contexts and give." This gift is care, a care that inspires his or her own educational practice; (b) a an ethical vision of life (Mortari, 2017). Care, research habit oriented to a transformain its ethical core, means to act looking for tive purpose, which means being involved the good not only of the individual but also in concrete actions aimed at solving the of others and of institutions (Ricoeur, 1992). In order to do this, you should be able to put yourself in brackets, because otherwise you cannot understand what is good for others and direct personal actions from a service perspective. These reflections are coherent with what emerged from our students' feedback and show us that our SL program improves civic skills inspired by an ethic of care in our students. This ethic of care puts this concept into a political framework that goes beyond a narrow vision of the teaching profession and sees it as the core element to reach a more democratic vision of society that nourishes a public life inspired by the principles of solidarity, responsibility, and commitment to the community (Mortari, 2017).

From our study it emerges that what char- professional practice.

problems emerging from the contexts, meshing this action with a commitment to lifelong learning; (c) the use of reflectivity to transform the educational experience into experiential knowledge, assuming a critical and thoughtful posture to interrogate contexts with a high level of complexity in order to construct theories able to enlighten them; and (d) the development of a participatory vision of his or her professional practice inspired by a concretely acted civic engagement and a concept of care that inspires an ethical vision of life. This shows how the CSRL program promotes in our students a vision of teaching guided by the principles of utility, reflexivity, participation, civic engagement, and care, a vision that we hope will inspire all their future

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Impact Analysis of a Service-Learning University **Program From the Student Perspective**

Anna Escofet and Laura Rubio

Abstract

Service-learning has become increasingly prevalent in higher education in recent years. Within this context, this article presents and analyzes some data regarding the perception of students who participated in a program developed by the Service-Learning Office of the Faculty of Education at the University of Barcelona during the 2015-2016 and 2016–2017 academic years. In particular, by means of a survey method, the article analyzes university students' perception of the impact of service-learning projects in terms of their participation, development of competencies, service performed, and experience gained. The results indicate that students value their participation positively, although they point out the need to further improve the link between learning and service. Finally, the article highlights the need to delve into and further develop reflective practice as a means to strengthen the academic link with the service performed by the students.

Keywords: service-learning, higher education, reflection, social responsibility

Europe has experienced a significant learning. sequence of changes that have fundamentally altered university learning. The European Higher Education Area (EHEA) has spearheaded a considerable shift in the paradigm of knowledge within the continent, moving focus from academic disciplines to the development of professional competencies that are linked to the real world, to the natural environment in which the student will actually develop, both professionally and as a citizen.

This paradigm shift has taken place at a time when Europe has been experiencing a deep economic crisis that has caused, in turn, profound changes in the ethical and moral values of European society. As social institutions, universities have felt challenged and have thus developed various ing as a philosophy implies understanding forms of social engagement to respond to that it is much more than a teaching meththese changes. At a pedagogical level, one odology or a program or a way of organizof the ways in which this social engage- ing work with various agents in a context,

n recent years university education in ment has materialized is through service-

Service-learning is a pedagogical philosophy that seeks to promote students' learning through their participation in community service experiences. Along these lines, Puig, Batlle, Bosch, and Palos (2007, p. 18) posited that:

Service-learning, while still a programme, is also a philosophy. That is to say, service learning is a way of understanding human development, a way of explaining the formation of social bonds and a way of building human communities that are fairer and are better at managing coexistence.

In other words, referring to service-learn-

of university social responsibility.

Over the years, various research has looked into the positive effects of service-learning. A review of these effects was conducted by Gelmon, Holland, and Spring (2018), differentiating between the impact of servicelearning projects on students, faculties, the community, and the institution. In relation to the impact of service-learning projects on student learning, the most prominent studies conclude that service-learning allows students to connect theory and practice, develop critical thinking, improve the ability to solve problems, learn more about the resources available in the community, and develop their professional and citizenship skills (Eyler & Giles, 1999; Jacoby, 2015; Martínez Vivot & Folgueiras, 2012; Moely & Ilustre, 2014; Tapia, 2006; Warren, 2012). The undeniable educational richness generated by service-learning practices—added to the fact that an increasing number of initiatives are being implemented in higher education—makes it necessary to investigate the impact that service-learning has on university students.

Students' perceptions as a key element to justify the development of service-learning projects have been the focus of study in various research conducted in different contexts and disciplines (Bassi, 2011; Bender & Jordaan, 2007; Lee, Wilder, & Yu, 2018; Tande, 2013). Most of these studies report that students perceive improvements in their learning, in direct correlation with their involvement with the environment. In this framework, the study presented As pointed out by Annette (2005), all these here aims to delve deeper into students' perception of their participation in servicelearning projects, the skills acquired, and promote young people's involvement in the types of service performed.

Conceptual and Contextual Framework

Over the past few decades, the practice of service-learning has been growing significantly worldwide and also at the university level. Service-learning first began in the United States and Argentina and, since then, different initiatives have been emerging, nearly simultaneously, in multiple countries.

Many studies have highlighted the key social transformation, horizontal dialogue elements in the development of service- with the community, and protagonism of learning projects. Referring to the fed- the student body (Manzano, 2012). Serviceeral program Educación Solidaria of the learning is, therefore, an effective pedagog-

emphasizing its value within the framework Argentinian Ministry of Education, Rial (2010) highlighted the importance of curricular links, the relationship between activities and learning, service analysis, participation, and instances of transfer and/ or dissemination toward the community. For its part, a rubric used at the Pontifical Catholic University of Chile (Casas-Cordero, 2009) identifies three key phases, which in turn are divided into different subdimensions and levels: the design phase (identification of community needs, design of objectives, planning, monitoring and evaluation, familiarization with students, balance between promotion and attendance); the implementation phase (fulfillment of commitments, coping with unforeseen situations, ethical aspects of the relationship); and the results phase (fulfillment of objectives, technical quality, usefulness and level of satisfaction of the community partner). Also, the Research Group on Moral Education (GREM by its acronym in Catalan) at the University of Barcelona highlighted twelve categories of dynamics, which they grouped into three different types: basic dynamics (social needs, learning, service, and social sense); pedagogical dynamics (participation, teamwork, reflection, recognition, and evaluation); and organizational dynamics (partnership, consolidation within the center and within the entity; Puig et al., 2014). Finally, the Service-Learning Quality Assessment Tool (2018)— SLQAT— identifies up to 28 items grouped into various dimensions: learning, service, students, faculty, community, and course design.

> initiatives have one element in common: service-learning is seen as a means to community service. At the same time, service-learning also strengthens the link between important dichotomies in educational institutions that aim to improve training geared toward the development of competencies: namely, the link between theory and practice, classroom and "reality" (pointing to other possible contexts), training and commitment, and cognition and emotion (Rodríguez, 2014). These benefits only result from true service-learning practices, that is to say, from practices that include academic learning, an aim toward

ical strategy with benefits that go beyond Madrid, 2018); (2) to promote publication by directly involving them in service tasks Sotelino, & Lorenzo, 2016); and (3) to proering them to analyze the social, ethical, and within single institutions and interinstitucivic impact of their professional practice tionally, whenever possible. (Naval, García, Puig, & Santos-Rego, 2012).

the Service-Learning Office of the Faculty . . . will promote social and civic respon-(Spain). Therefore, this section includes learning, within various degree pro-

decade that universities have been incorporating service-learning (Martínez, 2008), Sustainability at University was approved in informed by research and contributions 2015 by the Executive Committee and the made in other countries. Thus, servicelearning took hold in Spanish universities through concrete experiences that aimed to of Spanish Universities (CRUE in Spanish). reinforce the value of practical learning, interaction with the environment, and a sense Along the same lines and taking advanof engagement with the community.

Spanish universities has thus been pro- founded the Catalan University Network moted mainly by the teaching staff directly of Service-Learning-ApS(U)CAT (see involved in these experiences, as they have http://www.acup.cat/ca/projecte/xarxabecome increasingly aware of its meth- daprenentatge-servei-de-les-universitatsodological benefits and of the importance catalanes). The aim of this association is of the university's social responsibility to share teaching experiences and research, (Folgueiras, 2014). In addition, service- as well as to address challenges linked to learning has opened new lines of research, the expansion and improvement of univernot only on its implementation but on ways sity service-learning. So far, exchange and to achieve its institutionalization.

It is in this context that the Spanish University Service-Learning Network emerged. This association currently brings together teachers from over 40 universities in Spain who, in one way or another, have At the University of Barcelona, serviceintroduced service-learning in their teach- learning is the main focus of the Serviceing and research. The University Network Learning Group ApS(UB) (see http://www. of Service-Learning was created to achieve ub.edu/grupapsub/en/blog/aps-ub-group). three main purposes: (1) to gather mem- This is an interdisciplinary team, comprised bers at an annual conference, which, in of lecturers from different faculties and its latest editions, has already had wider areas of knowledge. Currently, the group European and international participation has representation from most of the univer-(Barcelona 2010, 2011, and 2012; Bilbao, sity faculties: Fine Arts, Librarianship and 2013; Madrid, 2014; Granada, 2015; Santiago Documentation, Biology, Earth Sciences, de Compostela, 2016; Seville, 2017; and Law, Economics and Business, Education,

the academic curriculum (Cho, 2006; Furco, of the works and experiences that are being 2005; Robinson & Meyer, 2012). In addition developed in this context (Aramburuzabala, to their potential to foster interdisciplinary Opazo, & García–Gutiérrez, 2015; Carrillo, learning and knowledge, service-learning Arco, & Fernández Martín, 2017; Rubio, experiences promote students' citizenship Prats, & Gómez, 2013; Santos-Rego, through projects of a social nature, empow- mote research on service-learning, both

Furthermore, service-learning was offi-The research presented in this article is part cially recognized in 2010 in the Statute of of the work carried out in recent years at University Students as follows: "Universities of Education, University of Barcelona sibility practices that combine academic an overview of service-learning in Spain, grammes, with the provision of services to in the Catalonian region, and, finally, at the community aimed at improving quality the University of Barcelona, focusing par- of life and social inclusion" (Royal Decree ticularly on the meaning and structure of 1791/2010, 30th December). Subsequently, service-learning at the Faculty of Education. a white paper titled Institutionalisation of Service-Learning as a Teaching Strategy In Spain, it has only been over the past Within the Framework of University Social Responsibility for the Promotion of Plenary of the Sustainability Commission (CADEP Group) of the Conference of Rectors

tage of their territorial proximity and joint work spaces, in 2015 seven of the nine The development of service-learning in universities in Catalonia joined forces and work meetings have been held at Pompeu Fabra University (2015), the Autonomous University of Barcelona (2016), the Rovira and Virgili University (2017), and the University of Girona (2018).

Philology, Philosophy, Geography and is the suitable method when the objective History, Medicine, Psychology, Chemistry, is to elicit the opinions, beliefs, or attiand Social Work. Since its inception, this tudes of a group of people (Buendía, Colás, group has sought to disseminate and extend & Hernández, 1998). The instrument used service-learning throughout the University for gathering information was an adapted of Barcelona.

One of the leading faculties in the promotion of service-learning at the University of Barcelona is the Faculty of Education, which since 2010 has had a Service-Learning Office First, participation was assessed based (see https://www.ub.edu/portal/web/edu- on the taxonomy proposed by Trilla and cacio/aps) to coordinate this type of proj- Novella (2001), who distinguished four types ects. Although service-learning is a valuable or levels: simple participation: taking part formative proposal in any discipline, it is in a process as a spectator without having undoubtedly even more important for future intervened in it; consultative participation: educational professionals, both as a meth- being heard on issues of concern; projecodology and as content. Service-learning is tive participation, feeling the project as their an effective methodology because it allows own and participating in it all throughout; students to construct knowledge from and metaparticipation: generating new parpractice, helping them to become profes- ticipation mechanisms and spaces based on sionals who are more competent and more the demands expressed by the participants committed to the social environment. And themselves. If we correlate these parit is effective as content because students ticipation levels to the way students take learn and analyze the potential of service – part in service-learning projects, we can learning projects so that they can later im- conclude that simple participation would plement this formative experience in their imply that students carry out the service professional future, involving their future without having been involved in decisionstudents in their immediate environment.

In this framework, the Service-Learning Office is responsible for (a) promoting service-learning among teachers and students within the faculty; (b) coordinating, managing, and evaluating the service-learning projects offered to the students; (c) supporting academic staff in the introduction of service-learning in their modules; (d) building a network of partners with social and educational entities; (e) ensuring the quality of the service-learning programs; and (f) conducting research on topics related to service-learning and its development in the faculty.

Currently, the Office of Service-Learning of the Faculty of Education is coordinating a total of 26 projects and entities, involving students from various degree programs in the Faculty of Education.

Methodology

As previously stated, the objective of this combination of knowledge, skills, attiresearch was to learn about the perceptions tudes, and responsibilities that students of university students involved in service – acquire throughout the educational process learning projects in terms of their partici- that takes place at a university. In order pation, the competencies developed, and to determine what transversal competenthe service performed in the projects. The cies are involved at university level and

Nursing, Pharmacy and Food Sciences, study method used was the survey, which questionnaire (Folgueiras et al., 2013) that had been designed and validated in previous research (Escofet, Folgueiras, Luna, & Palou, 2016).

> making throughout the project, nor in identifying needs, nor in choosing activities, nor in evaluating the project. Consultative participation would imply that students are consulted when identifying a need, elaborating activities, or evaluating the project; their voice would be taken into account but would not have much bearing on the development of the experience. With projective participation, students would participate actively and make decisions throughout the project; that is, they would identify needs, create activities, apply themselves, and evaluate the project. With metaparticipation, students would generate new activities within the project or possibly even create a new project; they might also reflect on their participation and the right to participate.

> Second, competencies were measured based on students' perceptions on the extent to which they believed they had acquired transversal competencies through participating in a service-learning project. That is, competencies are seen as the dynamic

assess which ones are developed through ing projects in the Faculty of Education, Tuning Project. In addition to promoting observed ethical research principles outpractice for which they are being trained in Barcelona (2010). a specific and real context.

Third, the instrument used (question - cidental sampling, which consisted of the naire) focused on the students' description selection of easily accessible subjects out of and assessment of the usefulness of the a population of 162 students participating in service completed. We understand service service-learning projects during this period. in service-learning projects as the set of The sample obtained totaled 65 students. tasks that students carry out altruistically The sample calculation was carried out a and that produce a result that contributes posteriori considering a confidence level of to mitigating a social need that had been 95.5% for finite populations (p and q = 0.5), previously identified. During the service, which entails a margin of error of ±0.081 for the work that is carried out is not the only the extracted sample. significant issue; equally important is the impact the work has, either because of the social benefits it provides, or because of the civic awareness it instills in the participants (Puig et al., 2014). Service tasks can be conducted in different areas: health promotion, promotion of people's rights, citizen participation, cultural heritage, generational exchange, educational support, solidarity and cooperation, and the environment. In turn, services can be classified into types according to whether they involve people (whether individuals, institutions, entities, or associations), a geographical area (neighborhood, city, etc.), or a specific sustainability issue (for example, water quality or forest maintenance). Whatever the case, choosing what type of service students should complete depends on the specific topics or curricular content of the discipline they are studying. It is therefore important to envisage on the one hand, the students' assessment the learning outcomes that can or should of the correlation between the activities be achieved by the students through their carried out throughout the service-learning participation in service-learning projects.

Finally, a transversal fourth dimension was added, referring to students' general satisfaction with their participation in the project. Through open-ended questions at the end of the questionnaire, students were On the other hand, it is also worth noting asked to discuss the impact that participat- the perception that students have about the ing in a service-learning project had on extent to which they have acquired transthem, both at a personal and at a profes- versal skills, as shown in Table 2. sional level.

service-learning projects, we first con- University of Barcelona (Spain), during ducted a review of various proposals made the 2016–2017 and 2017–2018 academic by international universities through the years. Administration of the questionnaire transversal competencies, service-learning lined by the Consortium of European Social projects also foster the development of Science Data Archives (2012), the Spanish specific competencies that are relevant to Ethics Committee of the Superior Council different degree programs. Through these, for Scientific Research (Consejo Superior de students are required to apply knowledge Investigaciones Científicas, 2011), and the and concrete procedures of professional Bioethics Commission of the University of

Participants were selected through ac-

Results

The results below show, first of all, the sociodemographic features of the sample. The participating students were men (N = 12;19%) and women (*N* = 53; 81%). They were in the following degree programs: Social Education (N = 14; 21%), Pedagogy (N = 19; 30%), Social Work (*N* = 15; 23%), and Early Years and Primary Education Teaching (N = 17; 27%). In terms of participation, 100% of students participated in a simple type, taking part directly in service-learning projects aimed at people or groups in the areas of health promotion (N = 18, 28%), educational support (N = 42, 65%), and solidarity and cooperation (N = 5, 7%).

Regarding competencies, it is worth noting, project and the achievement of learning outcomes related to their studies. Marking on a scale from 5 (a lot) to 1 (little), the students state that this relationship is high, as shown in Table 1.

As Table 2 shows, the competencies that The questionnaire was administered to all students consider to have acquired to a students participating in service-learn- greater extent are those linked to social

Table 1. Correlation Between the Activities Carried out Throughout the Service-Learning Project and the Perception of Achievement of Learning Outcomes Related to University Studies						
Correlation between learning and service	5	4	3	2	1	
% Answers	29%	34%	24%	10%	3%	

Table 2. Correlation Between Activities Carried out in the Service-Learning Project and Transversal Competencies					
Competencies	5	4	3	2	1
Learning and understanding ideas, concepts	6%	70%	18%	6%	0
Organizing and planning	18%	50%	32%	0	0
Analyzing and summarizing	12%	40%	24%	12%	12%
Making decisions	12%	50%	38%	0	0
Solving problems	24%	64%	12%	0	0
Mastering digital technologies	0	10%	15%	50%	25%
Searching and managing information	6%	12%	39%	31%	12%
Being able to communicate well orally and in writing	27%	39%	20%	14%	0
Learning foreign languages	6%	12%	18%	6%	58%
Expressing feelings	26%	39%	14%	14%	7%
Working in teams	46%	24%	18%	12%	0
Looking for improvement and quality	50%	32%	12%	6%	0
Acknowledging diversity and multiculturality	48%	45%	7%	0	0
Demonstrating ethical commitment	48%	43%	9%	0	0
Reasoning critically	60%	26%	8%	6%	0

commitment, problem solving, content

knowledge, and teamwork. The competencies that scored lowest were those linked to searching for information, learning languages, and mastering digital technologies. make their participation possible in service-It is worth highlighting, however, that stu- learning projects. These results are also dents expressed that they put into practice shown in Table 4. most of the transversal competencies.

Table 3 shows results in relation to students' evaluation of the usefulness of the service. Results show that students highly rate all the service activities carried out throughout the various projects. All activities scored values of 4 and 5. Among the highest ranked benefits again were those linked to student commitment, self-knowledge, and also Last, and by means of open-ended questheir motivation toward their university tions, students were asked to discuss the studies. Those that scored slightly lower impact that participating in a servicewere linked to the promotion of knowledge learning project had on them, both at a per-

acquisition and the link between theory and practice.

Students were also asked about their satisfaction with the different elements that

Overall, student evaluation of their participation in service-learning projects was highly positive. Nonetheless, results highlight the need to achieve a stronger link between learning and service and to improve the coordination and monitoring functions carried out by the Service-Learning Office.

Table 3. Students' Evaluation of the Service Performed						
Usefulness attributed to service	5	4	3	2	1	
The service-learning activities performed were useful for working through curricular content.	29%	37%	21%	11%	2%	
The service-learning activities performed addressed a real need.	48%	45%	7%	0	0	
The service-learning activities performed enabled me to understand social needs.	48%	45%	7%	0	0	
The service-learning activities performed allowed me to collaborate within an institution, association, etc.	46%	38%	13%	3%	0	
The service-learning activities performed motivated me to get more involved with the faculty, town, neighborhood, etc.	46%	38%	13%	3%	0	
The service-learning activities performed made me become more interested in social issues.	48%	43%	9%	0	0	
The service-learning activities performed gave me more motivation toward my studies.	38%	43%	17%	2%	0	
The service-learning activities performed made it easier for me to learn curricular content.	29%	37%	22%	11%	1%	
The service-learning activities performed made me act according to my principles.	60%	26%	8%	6%	0	
The service-learning activities performed enabled me to contribute toward the betterment of society.	46%	38%	12%	3%	1%	
The service-learning activities performed allowed me to link theory to practice.	26%	38%	26%	8%	2%	
The service-learning activities performed allowed me to learn about the professional context of my discipline.	29%	45%	12%	14%	0	
The service-learning activities performed made me reflect on the content I learn at university.	31%	34%	18%	12%	5%	
The service-learning activities performed helped to instill values in me.	68%	28%	2%	2%	0	

sonal and at a professional level. Students expressed mostly positive perceptions at both levels.

The impacts that are described at a professional level can be divided between statements related to professional identity and those related to the learning acquired in relation to their professions. Thus, in terms of professional identity, students state: Being part of this group has helped me to open up my eyes, to realise how easy it would be to become a "bad teacher," one that would close his eyes when facing students who are confrontational or have issues or challenges that the teachers must help overcome. Because we all know that it is easier to work with those who listen to you and behave well.

Table 4. Satisfaction With Participation in the Project						
Enablers to participation	5	4	3	2	1	
Project approach	36%	47.5%	9%	6%	1.5%	
Involvement of the social entity	32%	41.5%	18.5%	5%	3%	
Self-involvement	14%	55%	28%	1.5%	1.5%	
Learning outcomes achieved	45%	35%	15%	5%	0	
Link between theory and practice	24%	44%	20%	9%	3%	
Evaluation performed	34%	46%	17%	1.5%	1.5%	
Learning tasks performed	35%	43.5%	15%	5%	1.5%	
Resources to complete tasks	28%	37%	23%	9%	3%	
Project timing	35%	39%	23%	3%	0	
Project participants	45%	41.5%	9%	3%	1.5%	
Coordination between the Service-Learning Office and the social entity	25%	32%	32%	5%	6%	
Monitoring by the Service-Learning Office	40%	25%	24%	6%	5%	
Service performed	52.5%	37%	9%	0	1.5%	

But we also know how satisfying it is to help a student with difficulties to overcome them. (Student 2)

One of the things I like the most about this experience are those moments when you realise that you are actually helping a young boy or girl, and that he or she also appreciates it. They let you know it and they thank you, although often they do not know how to say it with words. All these feelings make me realise that I am studying in the right degree programme, and they give me the strength to keep going, to keep working hard in each module to continue learning more, making the most of each class to soak up all the knowledge and internalize it, so that I never stop learning and can continue thinking that I will always teach something new to my students. (Student 4)

Since I was little I have always wanted to be a teacher. In fact, I'm studying to become a teacher. If at any time I have questioned whether I really wanted to devote myself to teaching, now I know that I do, that I am doing the right thing. I'm in the right path. Although sometimes children make you angry, or you may find it hard to get them to do the work or you're feeling tired, they still always make you smile. I do not know how or why, but after each session I've always, absolutely always, left the class smiling from ear to ear. Although I've felt angry at times, I always had a great time during the sessions. Maybe I have helped them with reading, but they have helped me even more. (Student 5)

Comments regarding learning acquired in relation to their professions include the following:

I would like to express my great satisfaction with the Friends of Reading project, as it has been an intense experience in which I have been able to learn reading comprehension techniques and strategies to redirect and adapt myself when facing different situations. (Student 6)

In the professional field I have learned to be patient and try to explain things in the best possible way, without losing my nerve (something I have never lost). I have learned that I have to explain things providing the reasons behind them, and to try to get the other person, in this case Gerard, to understand it and that this is important for him. (Student 1)

Regarding the impacts described at a personal level, they focus mainly on the students' verification of any improvement they have experienced:

That initial fear of being mistaken and that insecurity of mine in the first few days are slowly disappearing. (Student 7)

I would like to talk about the personal learning that I have been slowly experiencing. I am absolutely convinced that this year has been very useful and it has offered me many valuable experiences, even more than I could have imagined. Being a Friend of Reading has helped me improve my organisational skills—scheduling sessions, managing time, respecting established schedules, etc. On the other hand, it has helped me to develop some habits and to not lose my enthusiasm, to get really involved in the responsibility I have taken on. (Student 8)

And on a personal level, [I have learned] to have more patience and that there are times that no matter how good other people's intentions are, if you have to set limits, you'd better set them. (Student 1)

This has made me reflect on my insecurity. Maybe it's because of my young age, but I still do not know how to face certain situations on my own, although every time I try harder. I always rush to someone who can solve a problem for me, instead of making myself face it. (Student 3)

Conclusions

To summarize, the data obtained highlight skills. Such education is also concerned with some of the positive effects of student ser- training students in their future profession, vice-learning projects, chief among which placing them in the real, social context in is the positive perception that university which they will eventually practice their students have regarding the impact of ser- profession, and training them to analyze vice-learning projects in terms of participa- the social, ethical, and civic impact that tion, competence development, service, and their professional practice entails. Service-

experience.

In terms of participation, the study shows that students get directly involved in service-learning projects aimed at people or groups in the fields of health promotion, educational support, and solidarity and cooperation. Students participate in service tasks that are directly related to their university studies in the Faculty of Education.

Regarding the development of competencies, it is evident, on the one hand, that students highly value the link between the activities carried out in the service-learning project and the achievement of learning goals related to their studies. On the other hand, students report that they put into practice most competencies and they consider that the competencies acquired to a higher degree are those linked to social commitment, problem solving, content knowledge, and teamwork. The competencies with the lowest scores are those related to searching for information, knowledge of languages, and knowledge of digital technologies.

In terms of their evaluation of the usefulness of the service, students considered all service activities carried out in the different projects to be highly beneficial, highlighting in particular their increased commitment, self-knowledge, and motivation toward their university studies. Scoring slightly lower in terms of benefits are facilitation of the acquisition of knowledge and the link between theory and practice.

Finally, students' evaluation of their participation in service-learning projects was highly positive, although they pointed out the need to achieve stronger links between learning and service and to improve the way that the Service-Learning Office coordinates and monitors the projects.

Discussion of Implications of the Findings

University service-learning enables us to contextualize knowledge socially. Quality academic education is much more than learning new knowledge and developing

in, and analyze real situations, which are become the focus of the work undertaken by similar to those that will shape their future the Service-Learning Office of the Faculty professional practice; it helps them to do so of Education at the University of Barcelona with sufficient theoretical background and over the past 2 years. The reflective practice knowledge, so that their practice is not an model developed by the Service-Learning occasional contact with reality but an active Office is based on Kolb's (1984) experiential and engaged learning opportunity.

The results of our research show that students greatly value what this kind of projects offer in this regard. Student evaluation of their participation in service-learning Kolb's proposal emphasizes the value of projects is highly positive. Nonetheless, their answers also highlight certain issues that can be improved and explored in depth in terms of experiences lived, especially in relation to the need to achieve a stronger link between learning and service and, therefore, between theory and practice.

That is why it is essential to accompany service-learning projects with reflective practice. Participation in these types of projects must be accompanied by reflective practices that foster deep learning, so that the experience can be rethought and reconstructed by the students and integrated into the set of knowledge and competencies that are part of their academic formation.

Reflection becomes even more important in service-learning since it allows for the integration of the service with the academic learning by promoting the construction of knowledge and the development of cognitive abilities and capacity (Eyler, 2002). But also, "reflection plays a vital role in raising awareness and, therefore, it reinforces the notion that service learning can be perceived as a critical pedagogy" (Deeley, 2016, p. 83).

The value of reflection in university learning processes has been widely described by various authors (Barnett, 1997; Brockbank & McGill, 2008). In summary, it is considered that moving away from a traditional university teaching model and toward a model focused on student learning involves the incorporation of reflective practices, among other issues. Furthermore, it is argued that reflection is also necessary to stimulate and promote learning of a critical and transformative nature (Harvey & Knight, 1996) in the sense that "the student is encouraged to become a critical thinker, depending on the norms and requirements of his/her discipline" (Brockbank & McGill, 2008, p. 69).

Improving quality in service-learning questions, and three to five relevant readprojects and confirming the need to do ings are suggested.

learning enables students to live in, act so through tangible research results have learning model. This model uses a journal as a reflective tool and details activities at various times following Eyler's (2001) reflection map.

> reflection as one of the key elements for optimizing learning, as a dynamic mechanism that is intertwined with experience, examining it carefully and paying special attention to various important issues, such as the questions emerging from reality, the search for effective actions, the participants' experiences, the civic sense of their intervention, and the critical vision that is fostered by reality (Páez & Puig, 2013). In short, no matter how motivating a servicelearning experience on its own may be, it will be rendered meaningless if it is not accompanied by spaces and moments for reflection that would allow us to overcome our emotions and advance in possible learning (Zabalza, 2011). It is, therefore, worth highlighting the value of systematic reflection as an organized process through which the challenges posed by the experience can be addressed with the aim of enhancing new learning (Páez & Puig, 2013).

> Figure 1 specifies the tools and moments of the reflective process that are proposed by the Service-Learning Office of the Faculty of Education at the University of Barcelona. The training tools that are used to enhance the students' learning and their evaluation are the personal journal, the group sharing sessions, and a final reflective session.

> A personal journal begins with the signing of a document that serves as a contract between each student and the Service-Learning Office. The document formalizes the learning and service objectives of the course, as well as outlining the tasks that are expected to be completed during the service experience. Students are then asked to identify a particular experience at the service site and to analyze that experience within a broader context in order to make recommendations for change and improvement. To do this, students are asked leading

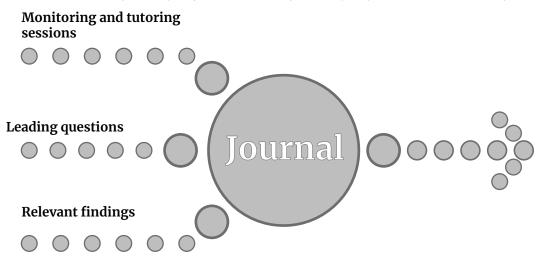


Figure 1. Reflective Tools and Moments Source: Service-Learning Office, Faculty of Education, University of Barcelona.

In addition, at the beginning of the proj- and also to link the service to academic conect, students are provided with a suggested tent; students are able to hear about each index (see Table 5) and a series of reflective other's success stories and can offer advice exercises on some points that are believed and collaborate to identify solutions to the to be key in the training of a future pro- problems found in the service site. Finally, fessional of socioeducational intervention the experience ends with a reflective sesin order to guide them and enhance their sion that serves both as a conclusion to the reflections throughout the service-learning. service and as a celebration of the whole The aim is to help students to go beyond a experience. This space aims to systematize merely descriptive vision of the experience the most relevant learning outcomes that in which they are living and delve deep into have been achieved through the experience. it instead. This is why it is essential for the journal to differentiate between the diary or log (that is, the section devoted to writing entries with a brief description of their dayto-day activities) and other moments and spaces devoted to exploring the learning derived from participating in the project.

The journal is a living document that is elaboration and validation of the rubric has supervised throughout the project. Via tutorials and their involvement in the whole sions of reflection, as well as the evaluation reflective process, tutors play a key role in items for the teaching staff and the didactic designing diverse and rich opportunities for guidelines for the student. reflection and in helping students to achieve the goals set, in facilitating the creation of spaces for analysis and synthesis of the activity based on the objectives, and in supporting students emotionally. All of this is done through listening actively, critically questioning everything that is being done, and providing quiet spaces for reflection.

In addition to personal spaces, group sharing sessions take place throughout the is still worth highlighting the need to proentire service—which can last a single duce a body of knowledge on the success of term or the whole academic year—under service-learning that has been sufficiently the supervision of a member of the Service- proven and empirically tested, especially in Learning Office. These meetings enable the European context and at the university students to share experiences and feelings level.

Finally, a rubric was created with a double objective: to facilitate guidance during the reflective process and the tutoring of reflective journals, and also to show students the key elements of the reflection processes promoted in the service-learning projects in which they were participating. The enabled us to identify the various dimen-

To conclude, the reflective tools and moments above indicated are intended to lead to an improvement of service-learning projects as a training process. Even though educational benefits entailed by servicelearning practices are not under question and a growing number of initiatives are undeniably being developed in this direction, to further advance service-learning, it

Table 5. Index and Summary of Activities in the Reflective Journal ABOUT ME Describe your personal and academic background. Detail your expectations in relation to the Service-Learning Project. ABOUT MY SERVICE-LEARNING PROJECT Context Institution Group People involved MY FIRST DAYS. CHALLENGES AND SOLUTIONS Describe, in three words, what the beginning of the service was like for you. Identify the initial challenges that you will seek to overcome with the person you are working with and within yourself. Describe an initial situation that stood out for you from among the rest. POSITIVE DESCRIPTION. Various issues are raised so that students can identify the best features of the socioeducational situation they are experiencing so that the educational link is enhanced. Thinking about your supervision work, describe the most positive aspects in 10 lines. Identify any issues related to your mentees' attitude that you believe need improving. Explain how you will go about motivating your mentees in order to improve the above issues. EDUCATIONAL LINK. Various questions are asked so that students can describe and explain the positive link to their education and the development of emotional attachment throughout the project. Identify the key moments in the development of your attachment. Discuss the main learning gains you are making. CRITICAL INCIDENTS. A reflective activity is proposed with the aim of addressing problems, queries, or difficulties that may have arisen during the experience, and discussing feelings that were generated. Think of a problematic situation and describe it in detail. Explain how you went about solving it at the time and how you would do it now. CONCLUSION AND FINAL REFLECTIONS. Suggestions and guidelines are put forward regarding the conclusion of each service-learning project. Together with your mentees, write a list with the best moments vou've shared. Identify 10 key final ideas or reflections you've had about the project. DIARY/LOG

Source: Service-Learning Office, Faculty of Education, University of Barcelona.



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Service-Learning in Courses of Psychology: An Experience at the University of Turin

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Abstract

Interest in the implementation of service-learning (SL) in university courses in psychology has risen in recent years. SL allows the students not only to read and talk about social problems, but also to act upon them and thus to learn from practice as well. The aim of this work is to present the service-learning experienced in psychology courses at the University of Turin, Italy. The experiences—named "The Volunteer's Helpdesk" and "Service Learning: Urban Area Analysis and Proposals for Action"—were analyzed following the Comprehensive Action Plan for Service Learning (CAPSL) model proposed by Bringle and Hatcher (1996) for implementing SL in higher education. The work presented is intended to contribute to laying the foundation for a broader reflection on how to implement SL in university courses in psychology.

Keywords: psychology, CAPSL model, laboratory, Italy

ervice-learning (SL) is a teaching method that combines school education with community service. It first surfaced in the 1960s in the and was subsequently widely disseminated years, at least two hundred definitions in the late 1980s. The U.S. National and of service-learning have been published, Community Service Act (1990) defined SL casting service-learning as an experience, as "a method . . . under which students a program, a pedagogy and a philosophy" or participants learn and develop through (Furco, 2003, pp. 11-12). active participation in thoughtfully organized service that is conducted in and meets the needs of a community" (§ 12511(40) (A)). The Act outlines that SL "is coordinated with an elementary school, secondary school, institution of higher education, or community service program, and with the community; and helps foster civic responsibility" (§ 12511(40)(A)(ii–iii)). It further stipulates that SL

is integrated into and enhances the academic curriculum of the students, or the educational components of the community service program in which the participants are enrolled; and provides a structured time for the students or participants to reflect on the service experience. (§ 12511(40)(B)(i-ii))

United States of America (U.S.) In 2003, Furco wrote, "Over the last ten

Although each definition has its merit, we will adopt here that which was proposed by Jacoby (1999):

SL is a form of experiential education in which students engage in activities that address human and community needs together through structured opportunities intentionally designed to promote student learning and development. Reflection and reciprocity are key concepts of service learning. The term community refers to the local neighborhoods, the state, the nation, and the global community. (p. 20)

This definition emphasizes that SL gives students an opportunity to participate in a structured service activity able to respond to the needs of an identified community (Acquadro Maran, Soro, Biancetti, & Zanotta, 2017). Reflecting on service activity is fundamental insofar as it allows a deeper understanding of the course content, a broader cal principles that characterize a quality SL appreciation of the discipline, and a greater sense of civic responsibility (Bringle, 2017; Bringle & Hatcher, 1995; Kirk, Newstead, Gann, & Rounsaville, 2018). Unlike other experiences that usually, though not exclusively, provide for the student's engagement for the benefit of a community—such as training or volunteering—SL stands out for its intrinsic balance, merging service and learning in equal measure, and seeks 2. to ensure reciprocity and equality of benefits between students and communities. Service activities are also strictly linked to academic content and are a constituent part of the school curriculum, and both educational objectives and civic and moral responsibility are contemplated for the students (Furco, 2002). The development of SL within the American education system was accompanied by a wealth of studies aimed at identifying and measuring its effects on the skills of students enrolled in schools ³. offering different degrees and curriculum subjects (Celio, Durlak, & Dymnicki, 2011; Yorio & Ye, 2012).

Research conducted in Italy a decade ago yielded the suggestion to create a network for helping institutions, neighborhoods, and young adults to assess educational and community needs and provide appropriate organized responses. On these grounds, SL was introduced experimentally in a psychology course at the University of Torino (Acquadro Maran et al., 2009). Albeit with various vicissitudes, the initiative is still active. In this article we present this experience as well as the approach, the methodological principles, and the model on which it has been grounded, to let it be evaluated and possibly replicated in similar contexts. Thanks to the engagement of academic staff from other Italian universities (e.g., Bologna, Padova, and Firenze), a few SL projects have been launched and are currently active (see Guarino & Zani, 2017). This article will provide practical information to other SL projects that will be implemented 6. in our country. Since 2018, SL has been in the testing phase by the Italian Minister of Instruction, University and Research (Miur, 2018) in three regions.

Implementing Service-Learning in University Courses

Introducing SL in the educational system and making it a fundamental part of the curriculum requires commitment and careful planning. The basic methodologicourse, as proposed by Smith et al. (2011), are the following:

- 1. *Integrated learning.* The experience of service should be clearly addressed and connected to the educational content; all stakeholders must be able to recognize the link between service and teaching, based on a clear logic and methodology.
- *Effective service to the community.* The needs toward which to align objectives, resources, and time should be clearly identified. If the expected timing of the project is longer than the duration of the course, which typically is due to the needs of the community and their evolution, the partnership between the educational institution and the community must be continuing, going beyond the activities of a single course.
- Collaboration between all the partners involved in the project. They must work together during all the phases of the intervention: planning, preparation, implementation, management, and evaluation.
- Promotion of public spirit and com-4. munity responsibility. Students should be stimulated to think and critically evaluate their role in society, and the ties between the community and the educational system should improve and become more complex and fruitful.
- 5. Reflection on the service to be carried out before, during, and after the experience. Moments and methods are necessary for a synthesis capable of integrating self-awareness, knowledge of the disciplines of study, and knowledge of the community. An effective reflection should also be self-referent; that is, the experience must be evaluated with respect not only to the content, but also to personal values, attitudes, and goals.
- Evaluation and dissemination. All the subjects involved should be able to analyze and interpret the results achieved, so as to also provide feedback and continuing quality improvement; the

dissemination of the results requires a teachers and students should be given inand disclosure process. (Kaye, 2004, cited in Smith et al., 2011, p. 320)

The principles proposed by Kaye (2004) and Smith et al. (2011) were adopted in SL projects in higher education, which turned out to yield benefits for all the actors involved (teachers, students, and the community; Burgo, 2016; Jurmu, 2015). Following these principles, we refer to the Comprehensive Action Plan for Service Learning (CAPSL) model proposed by Bringle and Hatcher (1996) for implementing SL in higher education. The CAPSL identifies four constituencies to be involved (namely universities, departments, students, and communities) and 10 areas of activity/outcomes that each constituency must carry out (namely planning, awareness, prototype, resources, expansion, recognition, monitoring, evaluation, research, and institutionalization). If everything works, the expected result is the institutionalization of SL within the universities.

The process is sequential with a necessary feedback loop: After an initial planning phase, the awareness of the nature of SL should be increased. This is best achieved bring a unique and fundamental contributhrough a practical example such as a prototype course. The development of SL requires the collection of resources and is implemented by, for example, increasing the planning of activities for each party the students' satisfaction with the course, involved. It is fundamental to document SL which affects the overall perceived quality implementation by monitoring and evaluating the unfolding of the project. The results & Acquadro Maran, 2017). must be recognized publicly. The success of the project ultimately is reflected in the degree to which SL becomes institutionalized. The CAPSL model initially requires the identification of a group of key people representatives of university bodies, university professors, student representatives, technical-administrative staff, community leaders—to be involved in the definition of the SL project, its theoretical foundations, and applicative guidelines. A person within the university should take management and administrative responsibility for the project in order to establish an office and pursue Italy to apply this theoretical framework the planned operations (Bringle, Hatcher, & Jones, 2012).

The involvement of the faculty is crucial because SL requires the incorporation of a community service component into the academic courses. This does not imply that SL should be imposed on teachers, but that

celebration of effort and success that formation about its nature, roles, and funcadds a "small touch" to the evaluation tioning. Bringle and Hatcher (1996) recommend the implementation of short-term SL projects, so that the parties involved may become familiar with the methodology. SL can be regarded as institutionalized when it is no longer dependent on a small group of teachers and is taken into account in decisions involving personnel: recruitment, promotion, and so on.

> Students' involvement is also crucial. Hatcher, Bringle, and Hahn (2016) suggested the investigation of students' interest in volunteering and their awareness of relevant activities in the local community in order to identify how many might be involved in SL and which thematic areas are more likely to attract them. Students' involvement is also necessary during the planning phase to foster motivation within the university context (Bringle & Hatcher, 1996). Jacoby (1999) highlights that wherever SL is located within the institution, what really matters to its effectiveness is that it be based on a partnership between the academic staff and the students, since each party has viewpoints, knowledge, connections, and resources that enable it to tion to the development of the enterprise. SL can bring benefits to the course in which it of the course of study (Zedda, Bernardelli,

> Finally, the participation of representatives from the community is needed to identify the relevant needs and resources for creating the SL activities (Kalles & Ryan, 2015). Proof that the university-community partnership is stable and effective may be traced in the continuity of the relationship, the consensus about the mutual needs and their satisfaction, the degree of collaboration, and the participation of faculty and students in community agencies. To the best of our knowledge, no attempt has been made in and the CAPSL model. The novelty aspect of the work presented here thus is an attempt to apply the model in a course of study in psychology in an Italian university from inception to institutionalization.

Service-Learning in **Psychology Courses**

Altman (1996) hoped that social awareness would become an integral part of the university curriculum along with foundational and professional knowledge. He added: "I cannot imagine a field more suited to the idea of socially responsive knowledge than psychology. And is it not our goal to both understand behavior and promote human well-being?" (Altman, 1996, p. 376). SL is an apt pedagogical approach to engender the development of such awareness, as it may educate about social problems, enabling students to experience and understand relevant collective and personal themes through firsthand active learning and action.

Bringle, Reeb, Brown, and Ruiz (2016) considered SL to be the pedagogical method most effective for the development of a "psychologically literate citizen," namely "someone who responds to the call for ethical commitment and social responsibility as a hallmark of his or her lifelong liberal learning" (McGovern et al., 2010, cited in Bringle et al., 2016, p. 295). Discussing the British university system, Duckett (2002) invited applied psychology to reform its educational practices if it wants to achieve ideological coherence in its theoretical and empirical settings. Moreover, several expected SL outcomes are part of the mandatory "bag of skills" of a psychologist, such as the capability of understanding and sympathizing with individual and social The first SL project at the University of problems while keeping an appropriate Torino was set up during the years 2008– distance from them, willingness to listen 2010. The target was a set of voluntary asto and help others, tolerance for diversity, sociations. In accordance with the CAPSL and, in general, a certain ethical, moral, model (Bringle & Hatcher, 1996), the project and human sensitivity (Maistry & Lortan, started with a planning phase, namely a 2017). Dunn, McCarthy, Baker, Halonen, and survey of the existing partnerships of the Hill (2007) discussed how SL may provide community of reference and of the students' a testing ground for several psychological interest in the activity (Acquadro Maran et principles and skills. Indeed, many relevant al., 2009). The initial planning phase was experiences are described in the literature. implemented during a course of Industrial Examples include Brown (2011), Harnish and Organizational Psychology: Several and Bridges (2012), and Crone (2013) in students turned out to be interested in the social psychology; De Prince, Priebe, and analysis of the community needs and in Newton (2011) in psychological research the codesign (with communities) of posmethodology; Olson (2011) in neuropsy- sible solutions and interventions. This al-chology; Heckert (2010) in occupational and lowed pinpointing the main organizational organization psychology; Barney, Corser, problem of the associations, namely that Strosser, Hatch, and LaFrance (2017) in the size of their staff of volunteers was not psychopathology; and McClure Brenchley on par with the increased flow of activities and Donahue (2017) in health psychology. that they were tackling (support in situa-The systematically positive impact of SL, in tions of illness or need, actions upon social terms of learning and satisfaction on the emergencies, and so on). Several students

part of both students and teachers, of the contribution brought to the analysis of the problem, and of intervention success, was well described by Kuh, Kinzie, Schuh, and Whitt (2011). The authors highlighted that SL may help the students discuss the moral correlates of scientific research and how environmental concerns interplay with the supply of public utilities.

The Experience at Torino

The Department of Psychology of the University of Torino has been committed for about ten years to introducing SL as an opportunity for the development of students' skills and the improvement of teaching. We believe that there is a close connection between psychology and the community. On the one hand, psychology is a discipline that aims to tackle individual or collective problems affecting every facet of human behavior, and on the other hand, organizations and individuals in need of help could at the same time provide students with precious testing grounds. In this article, we will describe two SL implementations with different degrees of structuration to demonstrate how the commitment by the Department of Psychology has realized the institutionalization of SL. The description will follow the CAPSL model (Bringle & Hatcher, 1996) and specifically the sequence of phases described above.

First Project: The Volunteer's Helpdesk

associations.

The methods used were the scrutiny of archived data, interviews with the presidents of the associations, and focus groups with the volunteers. The issue was diagnosed to be one of low supply relative to demand: voluntary organizations invested too little in recruiting. They relied predominantly on the engagement of friends and relatives, which often proved unsuccessful in terms of both the size and the continuity of the staff. Two solutions that were not mutually exclusive were devised. First, it was suggested to the associations that they redesign their promotional and outreach initiatives as well as their recruitment procedures and that they offer more training, supervising, and support to the volunteers recruited. Second, the Volunteer's Helpdesk was set up at the university. This was cosponsored by IdeaSolidale, which advertised the initiative with the associations, and by the University of Turin itself, which granted a physical space where the associations and the candidate volunteers could meet. About thirty associations were involved during the 2 years of activity of the helpdesk.

The outcome of the intervention was positive for all the actors (Acquadro Maran et a higher percentage of successes. The stual., 2009). The voluntary associations ben- dents were required to redescribe their acaefited from the competence of the students demic skills as tools useful to the social and (whose curriculum was in industrial and organizational operations of a community. organization psychology), who conducted The 40 available hours were divided into 6 an analysis of their needs and demands classroom hours about SL and its applicaand identified solutions that were both in- tions; 15 hours of activities within Vol.To for ternal (redefinition of the staff's functions) the analysis of the demand, meetings with and external (recruiting strategies). To the the management, and field observations; 15 students, the initiative offered an organized hours of group work for the development of space to reflect upon the relation between the intervention; and 4 hours for monitor-"knowing that" and "knowing how" and an ing and reflecting upon the experience. opportunity to appreciate how the content of their studies could prove useful to the community. This first experience was used as a practical example, becoming a prototype course.

Second Project: The Laboratory "Service Learning: Urban Area Analysis and **Proposals For Action**"

Starting from 2017, SL has been officially included in the curriculum of the master's degree in psychology of work and well-being in organizations, with the introduction of a 40-hour laboratory titled

were engaged in the study, along with four "Service Learning: Territorial Analysis and teachers and IdeaSolidale, an organization Intervention Proposals." The laboratory was offering services (like training and other divided into a first theoretical part and a forms of support) to street-level voluntary second applicative part. The latter involved a different second-level organization, Vol. To—Volontariato Torino—as the recipient community (Vol. To is an umbrella nonprofit organization whose members are streetlevel volunteer associations based in Turin and its province). Vol.To supplies a wide range of services to its members and has created and manages the Guidance Center for Volunteering Opportunities, a meeting point devised to match supply and demand for volunteers in the area. It is to this structure that the SL activities have been directed. The Guidance Center conducts about 1,300 interviews a year with a rate of efficacy (i.e., share of candidates who end up being permanently recruited) of about 40%. The recruitment and integration of the volunteers extends over several stages: the initial orientation interview, aimed at matching the aspirations of the candidates and the needs of the demanding organization; the volunteer's contact and interview with the organization(s) identified, and possibly the actual recruitment; and the start of a permanent collaboration. Each stage may turn out to be critical and often could lead to the termination of the overall process. Vol.To management asked for advice to improve the service and achieve

> To conduct the needs analysis and provide useful advice, the students had to recall and integrate the knowledge acquired in different courses of their curriculum. The project vielded three tools:

- A follow-up questionnaire investigating 1. the volunteers' careers within the organizations, with the following objectives:
 - to have a precise measure of the success of the recruitment process;
 - to monitor the breaking points of

the process;

- to investigate the causes of failure; and
- to keep track of the relationships with the people interviewed, so as to keep alive the link between Vol.To and the community.
- 2. A satisfaction survey regarding the interview, to measure the volunteers' satisfaction with the service. The priunderstood and helped, and of having received clear information relevant to their expectations. The goal was to have a first-quality assessment of the Vol.To service in terms of the ability to meet the users' wishes and needs.
- 3. Advice about the guidance interview with some indication of how the assessment of the prospective volunteers' interests, needs, and personal motives could be better focused.

In addition to a precise needs analysis, the SL project included intermediate monitoring and evaluation, conducted jointly with the Vol. To staff to keep a shared track of the activities and work toward concretely helping the community. Finally, the SL laboratory offered the students a space for personal reflection, in which to focus on how the experience affected them and possibly their future professional or personal choices.

Students' satisfaction was assessed at the end of each class with the same questionnaire already in use at the University of Torino. It consists of 12 questions about general satisfaction with the class (4 items), the teacher's skills (4 items), the overall workload (1 item), the adequacy of the preliminary knowledge (1 item), possible supplementary classroom activities (1 item), and a final summary score (1 item). However, a further open question was added, asking what the participant had learned on the cognitive, personal, and social levels. The questionnaire was anonymous and was administered at the end of the course by students enrolled in other courses who were trained for that duty. The teachers were not present during the administration of the questionnaire. The laboratory obtained the maximum degree of student satisfaction, scoring 10 (on a 0-10 scale, with 0 =not satisfied to 10 = completely satisfied),

growth in each of the areas that are typically affected, namely academic, cognitive, personal, and social. In particular, all the students confirmed that the field experience had allowed a better understanding of the relevant knowledge than was gathered from standard classroom learning and exams and that it had contributed to the development of cognitive and personal skills of reflection, decision making, and commitment. The laboratory was perceived as an opportunity for personal growth, enabling the students mary focus of the survey was on the to understand their capability to contribute interviewees' perception of having been to the group and face their difficulties. To some, it had also yielded better knowledge about the social issues of the city where they lived. Above all, it had added to their awareness of their own potential and aspirations.

> The following are a few of the students' statements in the questionnaire:

I applied my knowledge of psychometrics to the development of the questionnaire, becoming aware of what could actually be used. (Male, 25 years old)

My sense of effectiveness has grown a lot; while I was certain of my knowledge I was quite hesitant about how to put it to practice. Instead, looking at the questionnaire we had created, I felt proud of myself and more confident. (Male, 22 years)

First of all I have made it clearer to myself how much I am able to engage in a project that required collaboration between peers. . . . I learned to be part of a group, to communicate more effectively, and to recognize the role played by each person and their contributions. (Male, 24 years old)

In the team I felt shy and afraid of making mistakes, but I also tried to overcome my limitations, because I felt that my opinion was important. (Male, 24 years old)

This experience pushes me to look for something where I can be useful on the grounds of my life experiences, skills and education. (Female, 25 years old)

and was recognized as instrumental to their To the Vol.To staff the project provided a

space for reflection upon and discussion The benefits of SL for students, and thereproved an actual contribution toward improving the service to its users.

Finally, to all the parties involved—the Department of Psychology, the students, and the communities—the opportunity has been created to develop a network of relationships that can be expected to prove useful for future collaborations. As suggested by the CAPSL model, considerable resources (in terms of attention, time, methods, and instruments) were dedicated to the evaluation of the project by all the parties involved. The results of the project were acknowledged by the students, representatives of university bodies, and community leaders. This success led to the institutionalization of SL in the master's degree in psychology of work and well-being in organizations.

Conclusion

This article aimed to describe SL, its distinctive characteristics and strengths, and the activities that may lead to the successful ened and shifted toward the managerial and within the university system. The activities sequence of neoliberal reforms during the carried out in the Department of Psychology past decade. Thus, the institutionalization of the University of Turin were presented in of SL within the Department of Psychology light of the principles identified by Smith et may still be vulnerable, due in large part to al. (2011) and of the CAPSL model proposed neoliberalist, bureaucratic tendencies in the by Bringle and Hatcher (1996). The results Italian higher education arena that may be suggest that the integration between tra- unsupportive of SL as a "viable" pedagogy. ditional teaching activities and community Implementing SL requires time and human engagement may effectively contribute to resources for the deployment of structures a more complete and fitting training for and systems in order to create and maintain students who wish to pursue a career in partnerships with the community. The conthe psychological field. The salient fea- tinuous management of the process and ad other methods of civic engagement that methods are also necessary for the effeccan accompany the lives of students, is its tiveness of SL. Last but not least, the institerms of content, methods, teaching tools, orientation as well as a "democratic" mindand evaluation processes.

Based on mutuality, SL also requires a balance of benefits between students and community. SL thus differs sharply from both ute to laying the foundation for a broader volunteering and internship. In the latter, at reflection on how to implement SL in unileast in psychology courses, experiences and versity courses in psychology. We thus hope practices appear to be less closely integrated that the experience reported may be useful with theoretical content and subject to a to other academic organizations as an inmilder control on the part of the supervisors stance of and good practice in SL impleand the users.

of their own work practices, which in turn fore for the success of education, are now widely documented by decades of empirical research (Eyler, Giles, Stenson, & Gray, 2001) that have highlighted how contextualized actions of social responsibility are opportunities for improved learning of academic materials and for appreciable personal and civic development. In the face of unquestionable benefits, the implementation of SL requires of educational institutions significant efforts in terms of resources, know-how, and attitudes. This is now a critical issue for Italian universities, which have adopted several practices to allow students to gain experience and share knowledge and skills with the communities of reference, but typically not SL.

Although some SL programs are in the testing phase in schools, evidence of efficacy is not yet available (see the discussion in the Introduction). Even worse, the human and financial resources available to the Italian academic system have been severely dissipated, and the burden of activities worsdesign and implementation of a SL project the bureaucratic domains, by a dramatic ture of SL, which makes it different from hoc interventions in content and teaching full integration into academic curricula in tution as a whole must have a community set, open to sharing, leaving an active role to both the students and the community.

> The work presented is intended to contribmentation.



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The State of Service-Learning in Australia

Carol-Joy Patrick, Faith Valencia-Forrester, Bridget Backhaus, Rosie McGregor, Glenda Cain, and Kate Llovd

Abstract

This article provides an overview of the present status of servicelearning in Australia. It explores the evidence for service-learning in Australia through published literature and a desktop audit that identified service-learning units/courses publicly available on university websites. Authorship of the article has provided a wider perspective to ensure the accuracy of its substance and conclusions. Service-learning is a relatively new curriculum approach in Australia in all but small pockets within universities and in faith-based institutions. However, in recent years, interest in civic learning outcomes for students has been behind efforts to include it more broadly in higher education approaches to engendering citizenship and social awareness as well as to expand the range of approaches to work-integrated learning. To capture this growing interest, an Australian service-learning network and summit is planned for November 2019.

Keywords: service-learning, Australia, work-integrated learning, higher education, community engagement

resents an underappreciated pedagogy when WIL in Australia. At the time of publicacompared with other parts of the world, tion, The WIL Report made a systematic case including North America. In Australia, WIL for the challenges and benefits of WIL for has achieved widespread acceptance and students, universities, and stakeholders. encompasses concepts such as curriculum- Service-learning was referred to as one based work experience, practice-based edu- form of WIL as it was enacted in Australia, cation, experiential education, and coopera- falling under the description of WIL given in tive education. In contrast, service-learning the Report as an "umbrella term for a range is employed in just a few institutions in of approaches and strategies that integrate Australia, and it has only recently begun to theory with the practice of work within a gain ground as a curriculum option, usually purposefully designed curriculum" (Patrick falling within a broad range of WIL options. et al., 2009, p. iv). Service-learning and WIL and like experiences were largely de- community engagement in Australia have veloped to improve graduate outcomes in been increasing in popularity over the last terms of work-readiness and engagement decade, with more institutions considerwith theory. The growth of WIL in Australia ing service-learning either as a WIL option was along a somewhat similar timeline to or for its own value in terms of students' the growth of service-learning in North professional and personal development and America, albeit in Australia it was the North understanding of their role in the com-American model of cooperative education munity and as global citizens. The drivers that was being adopted.

lthough experiential education, Work-integrated learning in Australia is at more broadly known as work- a critical juncture. It has been 10 years since integrated learning (WIL), has a the publication of The WIL Report (Patrick high profile in Australian higher et al., 2009), a seminal publication and the education, service-learning rep- first large-scale national scoping study of for this increase were in place even before Langworthy (2007) questioned the viability in Australia: (1) direct course/unit requirebeing applicable in the Australian context.

In 2002 a major discussion paper was produced by the Australian Government, Higher Education at the Crossroads (Nelson, 2002). In it, several opportunities were presented to which a response by the sector of inclusion of community engagement (servicelearning) approaches would have met with a positive response by the government. The Australian Collaborative Education Network (ACEN) held its first conference in 2006 to provide a venue for WIL practitioners to talk about their practice and research. In 2012, then Prime Minister Kevin Rudd (Packham 2009) proposed an "army" of university students and graduates who would be able to pay off their education loans through community service.

builds on longer standing, mature approaches to service-learning programs similarities, differences, and trends. Based within faith-based higher education institutions and service-learning enacted emerged from the literature: first, the disin small pockets elsewhere. It has grown ciplines that appear most inclined to exin an environment where not-for-profit periment with service-learning programs in organizations are experiencing decreasing government funding and requiring implementing service-learning programs; alternative approaches to fulfill client and and finally, the lack of clarity and consenorganizational needs. Some 600,000 social sus around service-learning definitions and enterprises are registered in Australia for a nomenclature. population of 22 million, and over 30% of Australians volunteer in some way in their community. Although service-learning remains somewhat overshadowed by more traditional forms of WIL, there is considerable growing interest across the sector in the outcomes such a curriculum can achieve for students in terms of professional and personal development, as well as their engagement with, and contributions to, the 185-186) explains: community.

This article reflects on the present status of credit-bearing service-learning in Australia by reviewing recent literature on service-learning in Australia, conducting a desktop audit to examine evidence for service-learning curriculum in Australian universities, and including, through authorship, perspectives from those few institutions with larger scale approaches to service-learning, namely Notre Dame University, Macquarie University, and Indeed, Hutchings and Huber argue that Griffith University. We thereby identify the educating "citizens" represents one of range of service-learning occurring in the the oldest aims of learning in the Western Australian context. Evidence points to two tradition, but they admit that it does not origins for the adoption of service-learning always align with the other goals of modern

of an American model of service-learning ments for placement experience that suits service-learning curriculum approaches and (2) approaches that break away from the purely course/unit-based experiences that support specific discipline-based learning goals to service-learning opportunities but, although not specifically discipline related, nevertheless enhance a wide range of academic skills, personal and professional development, and awareness of social justice and civic engagement.

Literature Review

This review begins by contextualizing service-learning as an approach to transformative education before exploring the literature surrounding service-learning programs in Australian universities over the past 10 years. Emphasis was placed on More recent interest in service-learning frequently cited work and recent research, with this corpus of literature examined for on this process, three notable themes Australia; second, the prominent reasons for

> Service-learning is based on the premise that university education can and should be about more than classroom and disciplinebased learning. Service-learning represents transformational educational experiences that serve to develop students as "citizens" with "important human qualities" (Bok, 2009, p. 66). As David Scobey (2010, pp.

No one is born a citizen. Citizens have to be made. We become not merely rights-bearing humans but public selves through a complex socialization that endows us with the knowledge, capacities, values, and habits that we need for the reflective practice of democratic life. . . . there is no citizenship without education for citizenship.

higher education (2010, p. xi). Simply pro- the work that has taken place in the United ducing trained workers takes a narrow view States and elsewhere around the world has of the role of higher education; instead, provided a valuable base, no systemic case universities should foster human qualities for service-learning in Australia considers in their students, such as honesty, racial the various approaches and interpretations tolerance, and good citizenship (Bok, 2009). employed across the country. In 2007, Participation in service-learning has been Langworthy (2007) made the observation found to positively affect students' engage- that Australia's political drivers, competitive ment with their communities and improve context, and lack of history have previously their social values, as well as contributing limited the extent to which service-learning to leadership skills, self-confidence, critical has been embraced, as compared to U.S.

Reuben, 2010; Sax, Astin, & Avalos, 1999).

Although use of service-learning in Australia is relatively small and underdeveloped as compared to that in the United States and other parts of the world, Australian practitioners broadly agree on the theoretical underpinnings of service-learning as an approach to education. Taking a holistic view, service-learning seeks to produce graduates with a strong sense of civic values and responsibility, alongside academic and professional skills (Mabry, 1998). To facilitate the development of these civic values, servicelearning programs must be designed so that equal emphasis is placed on learning and on service provision, so that the providers and recipients of the service benefit equally (Furco, 1996). This equality can be achieved through careful integration of service and WIL in Australia, the time is ripe for furlearning, rather than the simple addition of ther explorations of how service-learning service to an existing curriculum (Howard, has gained momentum in Australia in those 1998). Service-learning generally involves intervening years. students' spending a certain number of hours in the community and then reflecting on their contributions either in writing or in discussion with their advisors or that it seems to focus on several key dispeers (Butin, 2010). The benefits of servicelearning are well documented: Participation in service-learning contributes to improved graduate employability, increased cultural competence, and a stronger sense of civic responsibility (Cress, Burack, Giles, Elkins, & Stevens, 2010; Eyler, Giles, Stenson, & Gray, 2001). Indeed, the work of Eyler et al. (2001), in their far-reaching and extensive review of literature on service-learning in programs, with a significant body of litthe United States, was a critical juncture in demonstrating the undeniable value of service-learning.

Although Eyler et al. (2001) demonstrated & Halbert, 2018). This emphasis could be the critical mass that had accumulated due to the value of service-learning in around service-learning theory and prac- advancing literacy, numeracy, and other tice in the United States, service-learning in educational support in disadvantaged envi-Australia has yet to reach a similar level of ronments, which is how service-learning is maturity. Service-learning still represents often used in North America. Furthermore, a relatively new approach and, although discussions in education literature have

thinking, and conflict resolution (Pickus & practice. Langworthy identified a variety of differences between the North American and Australian contexts in relation to any potential for service-learning to grow in Australia, specifically questioning whether American service-learning could "be transplanted to the Australian context where a culture of education for democracy and citizenship is at odds with a culture of education for private benefit and vocational outcomes" (p. 1) that was increasingly driving the policy agenda in Australian higher education. At the same time as Langworthy's paper was written, WIL was growing in the sector. The driving force for increasing WIL curriculum approaches was indeed the demand for employability skills. Given that it is 10 years since The WIL *Report* (Patrick et al., 2009) made the first systematic review of, and argument for,

The foremost trend in the literature surrounding service-learning in Australia is ciplines. According to the literature review, despite the widespread support of WIL across a range of fields (see Orrell, 2011), service-learning appears to be far more predominant in education than in other degrees, although it is known that there is considerable practice in the health sciences. Education degrees, in particular, seem to offer semiregular service-learning erature focusing on the experiences of preservice teachers (Carrington & Saggers, 2008; Carrington & Selva, 2010; Chambers & Lavery, 2012; Coffey & Lavery, 2015; Salter

reflection among students, and integrating Australian students closer to home. There is service-learning with later practicums. In a corpus of literature that explores various contrast, service-learning in other dis- service-learning projects that have focused ciplines is either still in initial scoping on Aboriginal and Torres Strait Islander phases—the work of Evans and Sawyer communities as beneficiaries of student ser-(2009) on internet usage and small busi- vice (see Bartleet, Bennett, Marsh, Power, nesses, for example—or grappling with & Sunderland, 2014; Bartleet, Bennett, the logistics of ensuring equal commit- Power, & Sunderland, 2016; Moretonment from all stakeholders, such as the Robinson, Singh, Kolopenuk, Robinson, & challenges faced by the Carlton Tripartite Walter, 2012). A noteworthy example is the Partnership in attempting to balance the work of Lavery, Cain, and Hampton (2018). somewhat incongruent needs of the insti- Following the experiences of preservice tution with those of the local community teachers in a remote Aboriginal school, (Warr & Williams, 2016). Education, by far, Lavery et al. collected data over a 4-year represents the most advanced corpus of period and found that experiential learning literature identified for this article in terms is essential in allowing preservice teachers of how service-learning is understood and to engage with Aboriginal students and proemployed in Australia.

The next major area for discussion involved the reasons for introducing service-learning. One of the primary reasons for introducing service-learning programs appears to be increasing intercultural understanding and competence among students. This approach is seen in a large body of literature across disciplines as diverse as teaching the ongoing relationship established with (Carrington & Saggers, 2008; Carrington the university. This ongoing partnership & Selva, 2010) and health (Jones et al., between this very remote school community 2015; Long, 2014). In one of the very few and the university has been sustained for examples of service-learning mentioned in 7 years and is likely to continue. A further the literature outside health and education, cross-institutional, collaborative project the Change Makers project (Downman & focused on preservice teachers engag-Murray, 2017) saw journalism students vol- ing in "arts-based service-learning" with unteer in a participatory journalism project Aboriginal communities (Power & Bennett, with students at an ethnically diverse high 2015). There was a firm focus on reciprocal school, with the aim of combating stereo- engagement with the community in this types and racism. Students did not receive program, which saw pre-service teachacademic credit for their participation in ers developing their professional identity this project but overwhelmingly reported through transformational learning expethat it increased their cultural aware- riences and increased cultural knowledge ness. Similarly, the "Patches" program (Power, 2012). Service-learning represents explored how service-learning can be ap- a key methodology for increasing the culplied to develop intercultural competency tural competence of students in terms of and encourage fostering inclusive education understanding Aboriginal and Torres Strait among preservice teachers (Tangen, Mercer, Islander culture. Spooner-Lane, & Hepple, 2011). The authors argue that there was a distinct change in mind-set, as the domestic students went into the experience with the mind-set that they were mentors providing a service and emerged realizing that they were "being of service" in an equal partnership of cultural exchange and learning. In both cases, students and supervisors observed higher levels of intercultural competence resulting from the service-learning initiatives.

Service-learning has also been employed to "collaborations, participation, empower-

turned to topics of agency, fostering critical increase intercultural competence among vide appropriate teaching. They found that immersion as an approach to service-learning offers a sustained, hands-on learning experience. Preservice teachers overwhelmingly reported an increased understanding of Aboriginal culture and the realities of teaching in a remote location. Similarly, the school valued the experience: They appreciated the service work that took place and

> Service-learning also features within units of study for credit without being formally identified as service-learning. In one example, a series of case studies embedded within capstone journalism courses, Project Safe Space and Project Open Doors, describe a wise practice framework that facilitates journalism students working with communities affected by serious social issues such as domestic violence and disability. As with service-learning, wise practice seeks

et al., 2016, p. 181). Transformation most new are still grappling with logistical issues. a variety of approaches aimed at "incor- application across disciplines and locations, ing environment that still accommodates expansions are taking place. different learning styles with the widest application focusing on inclusion and acceptance" (Valencia-Forrester & Backhaus, 2018, p. 95).

Finally, there seems to be little agreement among the Australian literature on a firm definition of service-learning. This is best illustrated in the work of Dowman and van Etten (2012), who bounce between terms including "WIL," "service learning," and "environmental volunteering." They debate the various terms that could be applied to their program, working through WIL and volunteering literature. Indeed, their model, the Natural Science Practicum, perhaps blurs the lines by including two practical placements throughout the degree: 5 days of volunteer work in the first year, and a more formal 10-day work experience in students' third year. Although the student testimonials were largely positive, the authors recognized the anecdotal nature of the data and discussed plans for more formal evaluations of the practicum. Although this A literature review was conducted to demodel was clearly integrated throughout the velop an understanding of the academic degrees, the Change Makers (Downman & work taking place in the service-learning Murray, 2017) program that was discussed space. The focus of the literature review was earlier raises questions about whether students should gain academic credit for their Australia published within the past 10 years. service-learning work, and the implications Rather than simply engaging in a systemof this decision for how service-learning is atic review of the literature surrounding integrated into the curriculum. The lack service-learning in Australia, this narraof clarity here is further explored through tive review explored key pieces of research the desktop audit of policies and how service-learning is employed across several contemporary relevance and offer pathways Australian universities.

Based on this review, there are several themes running throughout the recent service-learning literature in Australia: the relative scarcity of service-learning literature outside the field of education; the use of service-learning as a tool to increase intercultural competence; and the lack of clarity over defining service-learning. These findings demonstrate that there is significant scope for expansion of servicelearning programs and an understanding of service-learning across Australia. Although service-learning in education seems to be moving toward refining approaches to critical reflection and evaluation, other The literature review was complemented by

ment and transformative change" (Petrucka areas where service-learning is relatively often occurs through student engagement There have been many notable examples of with the community. Wise practice employs successful programs that hint at further porating a contextually-relevant learn- though little in the literature implies such

Methodology

This study employed a multiple-method descriptive research approach in order to establish a broad impression of the servicelearning landscape in Australia. Primarily exploratory in nature, this research utilized three key approaches to ensuring the accuracy of this article. The first two approaches were a literature review of academic work and a desktop audit. Following the literature review and desktop audit, the article and its findings were sent to authors in Notre Dame and Macquarie Universities with an invitation to edit and augment the content of the article. This last approach, although unusual in terms of a methodology, was intentional in terms of ensuring that this article is truly representative of servicelearning in Australia.

Literature Review

on publications about service-learning in in this developing field that have specific for future practice and research. A literature review of this nature serves to provide a snapshot of the service-learning projects that have taken place in Australian institutions over the past 10 years, with specific reference to several key iterations. Key pieces of literature were identified based on the number of citations on Google Scholar and links to seminal service-learning pieces. Emphasis was also placed on more recent work in order to understand how the conversations surrounding service-learning have developed over the past decade.

Desktop Audit

a desktop audit that further elaborated on across the country.

the quantum of service-learning occurring in Australia. The desktop audit provided a comprehensive overview of all institutions implementing service-learning and the degree to which they are committed to supporting or growing the curriculum. The desktop audit employed Bringle and Hatcher's (1995) commonly cited definition:

Service-learning [is] a coursebased, credit-bearing, educational experience in which students a) participate in an organized service activity that meets identified community needs and b) reflect on the service activity in such a way as to gain further understanding of course content, a broader appreciation of the discipline and an enhanced sense of civic responsibility. (p. 112)

Based on this definition, a list of key terms was developed in order to conduct first a general web search and then a more specific search of institutional websites. The key terms that were used to conduct the searches were "service learning," "community engagement," "community internship," "skilled volunteering," and "civic engagement." To conduct the audit, the 42 higher education institutions in Australia were identified. The service-learning search terms were used systematically in conjunction with each university's name. Then they were used again in the search tool on each university's own website. When the search There was one area in which the findings of returned matches to the key terms that the desktop audit stood in stark contrast to revealed a possible service-learning subject/ those of the literature review. Based on the course, we then investigated the subject/ literature review alone, one might assume course outline as available to the general that education students represent the public online. We looked specifically for the majority of service-learning participants. following:

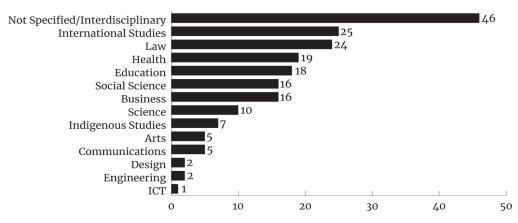
- 1. Do students earn credit toward their degree by participation in servicelearning?
- Is the placement/service within a com-2. munity service, charity, or not-forprofit organization?
- 3. reflection involved in the service-learning program?

The results of the audit were analyzed in terms of revealing trends and common ap- Related to the limited institutional recogproaches, as well as to develop an overall nition of service-learning, as well as the impression of the scope of service-learning popularity of interdisciplinary or flexible

Findings

The findings of the literature review are supplemented by the results of a desktop audit into service-learning approaches across several Australian universities. This aims to paint a more complete picture of the state of service-learning in Australia as a whole, as compared to the promising snapshot offered by the literature. The results of this audit were sent to all universities for them to comment on the findings or amend as appropriate. Service-learning was recognized at an institutional level at just over half of the 42 universities involved in the desktop audit, with over 200 identified contacts e-mailed; however, many of the respondents were only able to comment on service-learning subjects within their specific faculty. Upon closer inspection, despite the lack of institutional recognition, only four universities did not offer any form of service-learning units. Of those four, one did offer an award for community engagement and another ran a separate community engagement program outside classes. Based on this, it is clear to see that service-learning is reasonably, albeit thinly, widespread across Australian universities even if it is not recognized at an institutional level. It is worth noting here that the desktop audit did not extend to extracurricular servicelearning but focused instead on servicelearning embedded within the curriculum.

The desktop audit, however, revealed that this is not necessarily the case. International service-learning, or programs where students are given the opportunity to travel overseas to complete their service, are very popular in Australia, with many universities offering such programs in a range of countries, particularly in the Asia-Pacific region. There are also a high number of Is there an element of structured self- interdisciplinary or student-led servicelearning units on offer where students can nominate partner organizations or arrange their own placements, as shown in Figure 1.



Service-learning units by discipline

Figure 1. Service-Learning Units Where Students Can Arrange Their Own Placements

surrounding a definition of service-learning for over 800 non-profit organizations. & van Etten, 2012), there is little consensus constitutes service-learning, and furtherwas further confirmed through the desktop description. Other descriptions were comaudit, which revealed that some courses at monly found during the desktop audit: several universities may not offer academic community coursework projects, disciplincredit for participation in service-learning. ary coursework for non-profit organizavice is widely accepted to represent a key community-engaged scholarship. tenet of service-learning, the way credit was applied to the service-learning courses that were audited was inconsistent, with some courses receiving credit, others not, and others "subject to negotiation." Further, the lines between WIL and service-learning seemed to be blurred, with some universities offering "service" courses that have the option of placements with businesses or government organizations, which more accurately would be defined as WIL rather than service-learning. Despite this apparent confusion, there are well-developed examples of how service-learning can be integrated within a broader WIL curriculum.

The desktop search identified that UTS has activity for implementing a service-learning a well-established cross-disciplinary community-university engagement program: role in the program. According to a recent UTS Shopfront. Their aim is to build strong analysis of the PACE program (Bringle & and sustainable communities through re- Plater, 2017), service-learning is unique search, education, and practice. The main among the types of experiential education in program is curricular, with Shopfront fa- general and in PACE because of its emphasis cilitating community projects and intern- on civic learning outcomes. Therefore, the ships for final year undergraduate and prominence of service-learning in PACE is

service-learning units, is a lack of clarity postgraduate students across all disciplines, that suits the Australian context. As evi- When reading about the program, the term denced in the literature through the Change "service-learning" is notably absent. This is Makers project (Downman & Murray, 2017) indicative of the state of service-learning in and the environmental volunteering (Scott Australia; there is a lack of clarity on what about what exactly constitutes a service- more, there is discussion about whether learning program within a university. This service-learning is the most appropriate Although receiving academic credit for ser- tions, community-engaged research, and

> Macquarie University's Professional and Community Engagement (PACE) program represents another well-developed servicelearning program, where relationships with all stakeholders are highly valued and require careful nurturing to ensure that involvement in PACE is truly mutually beneficial. Although the scope of PACE as currently practiced at Macquarie University extends beyond service-learning to also encompass other forms of community-engaged and work-integrated learning, each of the four key constituencies—institution, faculty, students, and community—identified by Bringle and Hatcher (1996) as the focus of program in higher education plays a central

an important indicator for institutionalizing literature suggests that service-learning community engagement.

This unique approach to service-learning in Australia, whereby emphasis is placed on civic learning outcomes, is further evidenced through Griffith University's Community Internship, which places around 600 students per year in well-defined, definitioncompliant service-learning placements with a concomitant service-learning curriculum intentionally designed to provide students with opportunities to transform their understanding of the need for civic engagement. This approach is notable in that, according to research, community partners indicate 60% of students continue to engage as volunteers in their organizations. The University of Notre Dame and Australian Catholic University, as is common for many faith-based institutions, have historically had a strong approach to service-intentional goals across the whole curriculum of ensuring students realize their obligations as citizens.

Discussion

The results of the literature review, desktop audit, and shared authorship go some way toward describing the service-learning landscape in Australia. Service-learning in Australia is enacted under a broader um- A further key area of interest that has brella of WIL, in contrast to U.S. practice, emerged from a review of service-learning where cooperative education and service – literature in Australia is the challenge of learning are treated as, more or less, sepa- balancing the needs of students and comrate entities. Against this backdrop, the munity stakeholders. Although the benresearch revealed two key themes: inclusive efits to students of such engagement are education and relationships with commu- relatively well documented in the literature nity stakeholders.

Inclusive Education

Based on the review of key pieces of literature, the desktop audit, and broadening of the article's authorship, a number of themes emerged as areas for further discussion. The foremost was the need to develop service-learning programs that offer inclusive education. Interestingly, this was also observed in WIL more broadly at the time of *The WIL Report* (Patrick et al., 2009). Even though service-learning has been used to facilitate teaching inclusive education to early career teachers (Carrington & Saggers, 2008), designing curriculum to include the diversity of the broader student body rep- The focus of service-learning programs, resents a key challenge in service-learning therefore, should not be restricted to the (Harrison & Ip, 2013; Tangen et al., 2011). learning outcomes of students. It is essential Similarly, as discussed earlier, Australian that service-learning be designed to provide

represents a key tool in fostering intercultural understanding. Nine of the universities audited offered units that gave students the opportunity to undertake service in Indigenous communities or working with Indigenous people, with only a few identified as focusing on supporting opportunities for Indigenous students. One example is Victoria University's Aurora Internship Project, which offers a program specifically focused on facilitating internships for Indigenous students. Though there have been recent successes in encouraging more inclusive education through service-learning (Downman & Murray, 2017; Lavery et al., 2018), given the increasing recognition of the diversity of the student body, more research needs to be undertaken into the experiences of students with disabilities, students from remote and rural areas, international students, Indigenous students, and students facing financial difficulties. Exploring how these students have been able to engage with service-learning will contribute to designing more inclusive curriculum to give all students the opportunity to participate in meaningful, relevant service-learning experiences.

Community Stakeholders

(Eyler et al., 2001), little empirical research supports claims that programs and partnerships result in reciprocal learning and engagement opportunities, especially from the perspective of community partners. For example, work by Hammersley (2012, 2017) challenges the unidimensional understanding of the mutuality of programs that fail to challenge dominant power relations embedded in traditionally uneven partnerships that tend to dominate the sector. It remains problematic to engage with service-learning without considering neo-colonialist ideologies underpinning the ways community service and volunteering are defined and practiced.

but also the providers and recipients of the that it holds in other parts of the world. of stakeholders involved in service-learn- addressed. When compared to how serviceing, resourcing also emerged as an issue. learning is interpreted and enacted elsegenerally considered to be "resource-inten- and practice offer a mixed bag of definilearning in Australia in terms of being able the field. to advance this curriculum further.

development and discussion in service- vice-learning in Australia may not cater to learning echo the findings of The WIL Report the diversity of needs of the student body (Patrick et al., 2009) in terms of the major (Downman & Murray, 2017; Harrison & challenges. The WIL Report identified five Ip, 2013; Lavery et al., 2018; Tangen et al., major challenges to engaging with WIL: 2011). A more flexible, tailored approach is "ensuring equity and access," "managing required to ensure that inclusive serviceexpectations and competing demands," "improving communication and coordination," "ensuring worthwhile WIL placement ternative approaches to course design, such experiences," and "adequately resourcing as employing a wise practice framework. WIL." Several of these challenges, most notably "ensuring equity and access" and tion and collaboration between stakehold-"managing expectations and competing demands," have also been identified through transformative change for all those involved the course of this research into servicelearning. Perhaps service-learning in Australia is facing the same critical juncture that WIL was 10 years ago. If so, then the "integrating" diverse needs into a static trajectory of WIL in Australia may provide potential pathways forward for servicelearning. Although the challenges faced by service-learning are, of course, different from those faced by WIL more broadly, exploring how WIL programs were developed to suit the diversity of the student body, or "best option," particularly considering "the how the stakeholders in WIL projects have balanced their different needs and expectations, may provide important insight into how service-learning can begin to address these challenges, whether service-learning is seen as a standalone curriculum or part of the broader WIL approach.

Conclusion

toward illustrating the state of service – tions students, educators, and community learning practice and research in Australia. partners as collaborators, working together It is clear that service-learning as a trans- to realize "the common good" (Sternberg, formational pedagogy has yet to reach the 2009). Students are thus empowered to take

reciprocal benefits to all, not only students widely accepted and implemented status service (Furco, 1996). Striking this balance Foremost, the lack of clarity around the is of the utmost importance within service- definition of service-learning, both across learning and represents a distinct challenge Australian institutions and across courses (Scott & van Etten, 2012). Given the number within the same universities, needs to be Service-learning, and WIL more broadly, are where in the world, Australian literature sive" (Harris, Jones, & Coutts, 2010). The tions of service-learning, most notably in roles and responsibilities of academic advi- terms of where service takes place and if it sors and support staff, particularly how they is granted academic credit. Research that balance the needs of students with those explores the value of these two core aspects of community stakeholders, represent a of a working definition of service-learning distinctly under researched area in service- would represent a valuable contribution to

Further, there is evidence to suggest that Interestingly, some of the areas for future existing predominant approaches to serlearning education can be offered to all students. This prompts the exploration of al-Wise practice places emphasis on participaers in order to facilitate empowerment and (Petrucka et al., 2016). Inclusive education requires the proactive recognition of the diversity of the student body; rather than curriculum, inclusion must be designed from inception (Harrison & Ip, 2013). Timepoor educators and the needs of different stakeholders complicate designing servicelearning programs. Wise practice argues that "best practice" is not necessarily the variety of unique [access], identity, cultural and situational environments" (Thoms, 2007, p. 8). Often the predominant approach to WIL and service-learning can be to value the feedback of students and community partners about the placement experiences, rather than for educators to focus on what students learn about themselves and their personal transformation of values (Wilson, 1989). Wise practice in service-learning acts The findings of this review go some way to remove educational hierarchies and posia lead role in their own education (Petrucka service-learning projects are taking place et al., 2016). Doing so creates space for in- in universities across the country, work clusion and transformation at the center of that was nationally recognized in 2017, the learning experience, an approach that when two university programs received aligns closely with the transformative ethos the Australian Government Department of of service-learning.

The predictions of Langworthy (2007) that "to be successfully adapted to the Australian university environment, programs must be strongly linked to vocational outcomes and graduate attributes" (p. 8) have proven to be true.

of interest within the field, this review also the AAUT Award for Programs That Enhance points to issues requiring further research Learning, in the category Educational and investigation. In 2015, the Australian Partnerships and Collaborations With Government accepted the recommendations of a report on university funding and work exists that provides an overview of engagement. One of the key accepted recommendations was to "provide incentives Australian context in order to make a systo universities to increase and improve engagement and collaboration with business and other end-users" (Watt, 2015, p. i). Similarly, the Australian Government committed to \$28 million over 4 years to expand Ph.D. internship programs to improve postgraduate employability (Department of Education and Training, 2017). There is a clear commitment to encouraging greater engagement with industry and the community, as well as to the role of WIL in the form of internships. Where does this leave service-learning?

The significant interest in service-learning among higher education institutions clearly demonstrates widespread recognition growth of service-learning in their discithat this pedagogy has value. Innovative pline or institution.

Education's prestigious Australian Awards for University Teaching (AAUT). Griffith University's Community Internship program was recognized with the AAUT Award for Programs That Enhance Learning, in the category Student Experiences and Services Supporting Learning, Development and Growth in Higher Education. Macquarie In addition to highlighting emerging areas University's PACE was also recognized with Other Organisations. However, little to no the research available on the topic in the tematic case for the relevance and value of service-learning. Given the increasing prominence of WIL and increasing interest in service-learning as part of the WIL approach within education policy spheres, this review offers a timely first step toward demonstrating the value of service-learning in Australia. Consequent to the work completed for this article, a national network of service-learning practitioners held a service-learning summit in November, 2019, responding to the desktop audit which showed that 84% of respondents agreed they would like a network approach, with 95% indicating that they see room for the

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Engaging With Complexity: Making Sense of "Wicked Problems" in Rural South Africa

Christopher J. Burman

Abstract

This article provides insights into the utility of applying theories associated with the complexity sciences to engaged research. The article reflects on a 4-year health-related engagement between the University of Limpopo and the Waterberg Welfare Society in the Limpopo Province, South Africa. The introduction presents the focus of the partnership and the outputs to date. The sections that follow introduce (1) background information about the partnership, (2) the notion of "wicked problems" and resilience, (3) theory relating to anthropogenic complexity that influenced the project, and (4) a description of the taming wicked problems framework, which was developed to facilitate the intervention. The discussion reflects on learning from the project in the context of engaged research, wicked problems, and resilience. It is suggested that building resilience to wicked problems represents a useful addition to engaged scholarship's armamentarium of toolkits from both conceptual and practical perspectives.

Keywords: community engagement, HIV and AIDS, medical pluralism, nonlinearity, project management, metaphorical order/chaos continuum

problems framework (henceforth the HIV, both of which are priority areas in the Framework). The Framework was designed current South African National Strategic to facilitate a community-university re- Plan for HIV, TB, and STIs (South African sponse to an intractable wicked problem National AIDS Council [SANAC], 2017). identified by a community-based organization in the context of Mode 2 knowledge generation, with "Mode 2" understood to be knowledge cogeneration "for the sake of social change and transformation" (de Beer, 2014, p. 133). The Framework was developed from the perspective of transdisciplinary theory—inclusive of complexity sciencesto catalyze the emergence of novel ideas and associated social practices that would contribute to change and transformation. In this instance, the wicked problem identified by the community partner related to The reflection is structured in the fol-HIV and AIDS. Although the partnership has lowing way. First the partnership and not solved the problem, it has developed setting—contextualized by the changing

his reflection introduces an ap- resilience strategies to reduce its influence. proach to engaged research that The specific project impacts to date include was designed to build resilience an increase in adherence to antiretroviral to "wicked problems" in rural medication and a decrease in internalized South Africa, the taming wicked stigma among traditionalists living with

> The purpose of this reflection is to provide insights into the benefits of explicitly incorporating nonlinear dynamics into engaged research; to describe the opportunities that are afforded by working with ambiguous concepts such as serendipity and feedback; and to demonstrate how academe and community collaborated to develop a now selfsustaining resilience strategy to ameliorate the impact of a wicked problem in rural South Africa.

presented. This is followed by an excursus HIV/AIDS, 2014). The wicked problem iden– into wicked problems, resilience, and non- tified by WWS was how to reframe their HIV linear complexity, then a description of the risk reduction messaging in this changing Framework. The Discussion section begins context. with a metatheoretical reflection relating to the ontological/epistemological positioning of the Framework, followed by implementation-level reflections relating to some of the learning from the project.

Background Information

Project History

The partnership has been reported on elsewhere, and only the key points will be highlighted (Burman, Aphane, & Mollel, 2017). The partnership is between the Rural Development and Innovation Hub, University of Limpopo, and the Waterberg Welfare Society (WWS). The partnership began over 10 years ago, and this ongoing project began in 2014. Ethical clearance was approved by the Turfloop Research and Ethics Committee at the beginning of the project, and appropriate ethical procedures and protocols have been applied throughout.

WWS is a not-for-profit organization that was founded to counter the growing HIV and AIDS epidemic in 2006. It comprises teams of social workers, nurses, and peer educators who primarily work with communities living in deep rural areas (WWS, 2017). Waterberg district is situated in the west of the Limpopo Province on the border with Botswana. It is a deep rural district with a Gini coefficient of 0.67, representing one of the most unequal districts in the country (Mostert & Van Heerden, 2015). The most recent statistics indicate that HIV prevalence rates among antenatal women within the district during the period 2008– 2013 remained stable at fractionally below 30% (National Department of Health, 2015), but more recent figures indicate a gradual average national decline in incidence rates, which is probably reflected in Waterberg district (SANAC, 2017). (Note, however, that the last South African National HIV Prevalence, Incidence and Behaviour Survey providing district-level statistics was published in 2012; an exponential increase in antiretroviral treatment coverage has occurred in the intervening period.) During the early phases of the project, the HIV and AIDS environment was going through wicked problems "involve multiple intera global shift due to the introduction of

global/local HIV and AIDS environment—is 2030 (Joint United Nations Programme on

The Changing Global/Local HIV and AIDS Environment: 90-90-90

With the consolidation of evidence that antiretroviral therapy (ART) makes it "biologically possible to all but eliminate HIV transmission from those individuals already infected," as well as to extend the life expectancy of infected individuals exponentially (Bayer, 2014, p. 436), the South African National Department of Health officially adopted the 90–90–90 strategy, meaning "90% of all people living with HIV know their HIV status; 90% of all people with an HIV diagnosis receive sustained antiretroviral therapy, and 90% of all people receiving antiretroviral therapy achieve viral suppression" (SANAC, 2017, p. xv). In 2014, 90-90-90 represented a qualitative shift in the global/local HIV and AIDS environment, and WWS consequently wanted to update their educational and awareness materials accordingly. This required replacing the outdated "abstain, be faithful, condomise" (ABC) messaging with new educational and awareness materials aligned with the biomedical 90-90-90 paradigm.

Although in hindsight this may seem to be a straightforward task, the reality is that it was difficult. The difficulties included (1) very few of the project team understood the full implications of the biomedical logic that explained the opportunities that 90-90–90 provided, (2) the legacy of the ABC messaging was firmly embedded among the communities that WWS worked with, and (3) it was impossible to predict what type of educational and awareness materials would make sense to the intended beneficiaries in the changing HIV and AIDS environment. Despite a number of attempts to update the educational and awareness materials, WWS remained at an impasse, so it was decided that the partnership should focus on codeveloping new educational and awareness materials from the perspective of wicked problems and resilience.

Wicked Problems

The widely accepted consensus is that acting systems, are replete with social and UNAIDS' 90-90-90 strategy to end AIDS by institutional uncertainties, and [are those]

for which only imperfect knowledge about system, which makes the system context their nature and solutions exist" (Mertens, sensitive. "Nonlinear connectivity" refers 2015, p. 1). Consequently wicked problems to the way feedback loops that either am-(1) are considered to be "any complex issue plify (increasing the likelihood of a systemic which defies complete definition and for change) or dampen (reducing the likelihood which there can be no final solution . . . of a systemic change) potentials for change in that they resist the usual attempts to within a nonlinear system sometimes have resolve them" (Brown, Harris, & Russell, disproportional effects, so that "minor 2010, p. 302)—but it is possible to develop changes [within one part of a nonlinear resilience to the challenge by taming their system] can produce disproportionately "growl" (Churchman, 1967, p. B-141)—and major consequences" (Snowden & Boone, (2) are especially resistant to resolution if 2007, p. 71). One real-world example of only conventional, linear analytical ap- nonlinear connectivity is combination proaches based on Newtonian reduction – antiretroviral therapy, which involves "a ism are applied to attempt to change them cocktail of three drugs that works precisely (Sharts-Hopko, 2013). Furthermore, unin- because the immune response and viral tended outputs often emerge during inter- dynamics are non-linear. The three drugs ventions or programs designed to reduce taken in combination are much more efthe impact of wicked problems (Australian fective than the sum of the three taken Public Service Commission, 2007) because separately" (Ramalingham, 2013, p. 228). "wicked problems are nonlinear, [so] any approach to tackle them must be every bit as nonlinear" (Pacanowsky, 1995, p. 37). Nonlinearity refers to the dynamics of complex systems as described below.

Complexity in the Context of **Engaged Research**

multiple cause-effect interactions between passengers on an airplane mostly display tional complicatedness situated within a (i.e., ignore the safety DVD, eat, sleep, read closed system, such as an airplane. Linear and/or watch a movie), but if the plane rapsystems are considered to be ordered be- idly loses altitude, the passengers' response cause they are at, or close to, equilibrium. will typically catalyze the system to show a able to shocks, because if one part of the not entirely predictable, is likely to be patsystem can fail. An example of a complete or alarm). system failure due to one part of a system becoming dysfunctional is an airplane that has had the front wheel removed prior to takeoff. In this instance, the entire system ceases to function. The analysis of ordered, linear systems is associated with the Cartesian positivist method—"systematic observation, replicable experiments, logically deduced hypotheses confirmed by evidence"—because the system functioning is mechanistic, the outcomes deterministic (predictable), and the parts of the system can be legitimately analyzed as independent units (reductionism; Dunn, Brown, Bos, & Bakker, 2016, p. 2).

Unordered systems, such as anthropogenic there is no crisis, they will probably relax and ecological systems, are situated within and continue with the flight in a routine open systems and contain some nonlinear way (i.e., the system returns to a close to connectivity between the agents in the equilibrium position), but the system will

As a result of these dynamics, a nonlinear context-sensitive system may remain at a close to equilibrium position for much of the time but has the potential to move from the equilibrium point if the context alters. The ability of systems to respond to a changing context has been described as a form of "relational [emphasis added] complexity" Ordered, linear systems are sustained by (Healey, 2007, p. 525). For example, the their parts, representing a form of func- linear characteristics during a routine flight They are therefore predictable but vulner- different type of functioning that, although system becomes dysfunctional, the entire terned (i.e., variable displays of panic and/

> The passengers on the airplane represent an example of the tendency of nonlinear systems to remain at a point close to order for long periods (a routine flight) while possessing the capacity to shift far from the equilibrium position if the context alters (rapid loss of altitude) toward the "edge of chaos" (Lorenz, 1972). Unlike linear systems, systems that contain some nonlinearity are resilient, which means that they possess the agility to recover from shocks and thus have the tendency to return to a new point of order after the shock. For example, if the pilot resumes control over the airplane and assures the passengers that

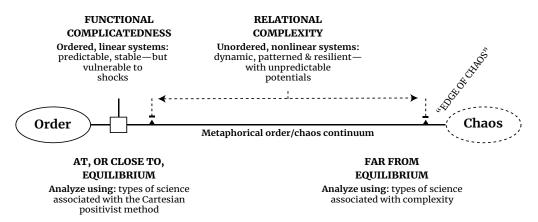


Figure 1. Linear and Nonlinear Systems Contextualized by the Metaphorical Order/Chaos Continuum

loss equilibrium point due to the memory why attempts at solving wicked problems of the engine failure and anxiety associ- often result in system recovery, in which ated with the altitude loss being embedded the system returns to a position at, or close within the system. Nonlinear systems are to, its original condition after an exogenous best analyzed using techniques associ- shock (such as attempts to solve the wicked ated with the complexity sciences, which problem). The qualitative differences in emphasize the "clear identification of the linear and nonlinear system functioning limits [emphasis added] to predictability" have implications for the management of while "constructing an unknowable future" engaged activities, as described below. (Stacey, 2000, pp. 90, 92). The characteristics of linear and nonlinear systems are represented in Figure 1, using a metaphorical order/chaos continuum.

on the metaphorical order/chaos continuum above, nonlinear systems are context sensiclose to, or at, equilibrium regardless of tive and are prone to unpredictable movechanges in the context. Nonlinear systems ment within the metaphorical order/chaos tend to hover at a close to equilibrium continuum. This requires a project managepoint on the order/chaos continuum for ment strategy typology that is cognizant of long periods of time; however, they have the uncertain potentials for movement. the capacity to move along the continuum as their context alters. Typically, a change in context, such as an exogenous shock, catalyzes movement from the point of ordered stability (equilibrium) toward a far from equilibrium point close to, or at, the "edge of chaos." The movement along the continuum is both self-regulating and selforganizing, which means that the degree of movement is impossible to predict, although patterns of movement tend to be replicated (Pincus & Metten, 2010).

Systems that contain some nonlinearity are resilient because, unlike an airplane, they "can survive the removal of parts by adapting to the change" (Rickles, Hawe, & Shiell, 2007, p. 933) and are capable of qualitative changes if the system goes beyond a tipping point (Gladwell, 2000). These char-

not return to exactly the same pre-altitude acteristics go some way toward explaining

Managing Nonlinear Systems in an **Engaged** Context

Anthropogenic systems represent nonlinear Linear systems remain anchored to a point systems (Kauffman, 2005), and, as noted

> Simple contexts require straightforward management and monitoring. Here, leaders sense, categorize, and respond. That is, they assess the facts of the situation, categorize them, and then base their response on established [good, or best] practice. [In a complex context], we can understand why things happen only in retrospect. Instructive patterns, however, can emerge if the leader conducts experiments that are safe to fail. That is why, instead of attempting to impose a course of action, leaders must patiently allow the path forward to reveal itself. They need to probe first, then sense, and then respond. (Snowden & Boone, 2007, pp. 68-72)

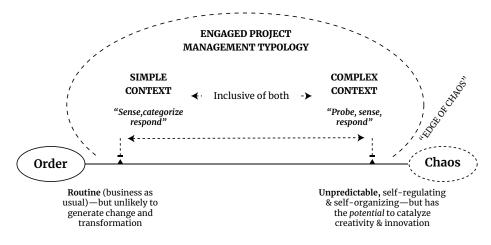


Figure 2. Managing Nonlinearity—an Inclusive Typology

by Snowden and Boone (2007) represents in context, these systems tend to gravitate a functional heuristic. However, from the toward order because of their resilience perspective of managing Mode 2 engaged (Chaffin & Gunderson, 2016). Nevertheless, partnerships that aim to build resilience to a simple context requires conventional projwicked problems, this methodology masks ect management strategies—that is, good, the opportunities that can be exploited to or best, practices—because the interaccatalyze ameliorative change. When an an- tions of the parts are proportional, hence thropogenic system is close to equilibrium predictable. In a complex context different (order), it is reasonably predictable and thus management strategies—such as safe to straightforward to manage using good, or fail experiments-are required because, at best, practices. However, when an anthro- that time, the system becomes unpredictpogenic system is far from equilibrium, it able, so a pragmatic project management is unpredictable and requires a different strategy is to "patiently allow the path management response. Implicit within the forward to reveal itself [as] instructive patunpredictability is the potential for grass- terns emerge" (Snowden & Boone, 2007, p. roots creativity and potential innovation to 72). The unpredictability is a consequence emerge. This opportunity is represented in of changes within the system that are Figure 2.

The project management typology proposed chaos continuum in response to a change mediated by amplifying and dampening feedback. This system is represented using Notwithstanding the potentials of non- Sohail Inayatullah's "iceberg metaphor" in linear systems to move along the order/ Figure 3.

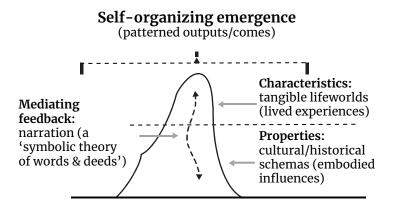


Figure 3. The Dynamics of an Anthropogenic System. Adapted from "Complex Adaptive HIV/AIDS Risk Reduction: Plausible Implications from Findings in Limpopo Province, South Africa," by C. J. Burman and M. Aphane, 2016, South African Medical Journal, 106(6), p. 571.

genic system reflect tangible lifeworlds that bursts of creativity and possibly innovation people negotiate in variable ways. The sub- as a first step toward taming the growl of merged properties reflect historical, cultural the wicked problem. After the movement schemas—including knowledge, rumor, toward chaos, the ambition was to use a and mythic schemas—which, collectively, combination of scholarship and communihave been described as a form of "sensori- ty-based project management strategies to memorabilia" (Burman, Mamabolo, Aphane, identify nascent emergence that was of po-Lebese, & Delobelle, 2013, p. 22). The feed- tential value to the partnership and, where back within the system reflects how people possible, reinforce or dampen the emergent make sense of the utility of the combination influences during the return journey toward of both the characteristics (lived experience) order. The latter process was intended to and the properties (embodied schemas). ensure that the nascent emergence was em-Within anthropogenic systems, feedback bedded within the WWS system so that any typically manifests through narrative and creative, beneficent opportunities that had storytelling, reflecting the "homo nar- emerged during the period of destabilizarans" paradigm that describes narration as tion could be harnessed and exploited by a "theory of symbolic actions—words and the partnership. deeds—that have sequence and meaning for those who live, create, or interpret them . . . which has relevance to real as well as fictive worlds, to stories of living and stories of the imagination" (Fisher, 1984, p. 2).

In summary, during periods of stability, the dynamics of an anthropogenic system (the messaging materials in the changing HIV interactions of the properties and characteristics, mediated by feedback) produce to 90-90-90). However, it was possible patterned, stable emergence because the to agree on a set of parameters that the feedback is at a static equilibrium point. partnership could use to gauge progress by Periods of change, or transition, are typically catalyzed by an exogenous shock and represent systemic movement toward a far from equilibrium point due to changes within either the characteristics, the properties, or both, that alters the feedback local HIV and AIDS environment. The uldynamics. Resilience to exogenous shocks reflects the extent to which the influence of the change in either the characteristics or the properties—hence feedback affects the overall functioning of the system. This basic understanding of the functionthe design of the taming wicked problems framework described below.

The Taming Wicked Problems Framework

The Framework has been through a number of iterations. Its current form is provided in Figure 4. The emphasis is movement within the metaphorical order/chaos continuum in order to stimulate and harness creative resilience strategies that can tame the growl of wicked problems.

The underlying rationale of the Framework sense-respond management strategy. The was to catalyze ethical movement from or- purpose of the primary probe is to begin the dered stasis—in this case, the deficit situa- process of shifting the system from a close tion WWS had identified with regard to HIV to equilibrium position—in this instance risk reduction messaging—to a far from the deficit situation identified by WWS with

The visible characteristics of an anthropo- equilibrium position in order to stimulate

Defining the Project Boundaries: Agreeing on an End-Condition

At the beginning of the project it was impossible to predict what outputs were required to improve the HIV risk reduction and AIDS environment (the shift from ABC agreeing on an end-condition.

In this instance the agreed-on end-condition was influenced by the changes that the 90-90-90 strategy brought to the global/ timate goal of 90-90-90 is to reduce the aggregate global viral load to as low a level as possible. If this happened it would mean that of the people living with HIV today, very few could develop AIDS-related symptoms or be able to transmit HIV to another ing of anthropogenic systems influenced person. This biomedical logic provided a basis from which the partnership decided that during the project, any opportunity to reduce the aggregate *community* viral load would be considered a legitimate opportunity that could be used within the educational and awareness materials.

Systemic Destabilization Toward the Edge of Chaos: The Primary Probe

The word "probe" that is used to describe this phase of the Framework refers directly to Snowden and Boone's (2007) proberegard to HIV risk reduction messaging— effective among—their client constituentoward a far from equilibrium position. In cies. Based on these discussions, WWS then order to achieve this, the partnership iden- began safe to fail experiments to introduce tified a consultancy that specialized in HIV the learning from the training into their and AIDS training. The consultants' job was working environment—the "action spaces" to provide a full account of the biomedical shown in Figure 4. Safe to fail experiments logic behind the global 90-90-90 strategy are premised on the argument that when and to deliver the training in a participatory, undertaking experiments in unexplored iterative way to the senior management at territory, typically 50% of the experiments WWS in order to catalyze movement toward are likely to fail, but the collective learning a far from equilibrium position.

Systemic Reorganization: Discursive **Spaces and Action Spaces**

The systemic reorganization reflects the period during which the system absorbs the exogenous shock (in this instance, the information within the consultants' training materials) and begins to return from the edge of chaos back toward a new equilibrium point. The training (the primary probe) was a 2-day package, followed by a 2-day refresher 6 weeks later. The managers who attended the training agreed to critically discuss which aspects of the training they believed could be applied to their areas of work with their team members as a mechanism to increase the initial destabilization. These areas correspond to the "discursive spaces" shown in Figure 4.

There was no obligation to integrate any chances of identifying multiple opportuaspects of the training if the team members nities to reduce the system's stuckness did not believe it would add value, but it was (Huertas, 2014). Based on the collective agreed that the managers would encourage learning from the safe to fail experiments, their team members to use their intuition WWS gradually refined the way that they to identify components of the training that used the materials provided by the trainers they believed would make sense to—and be in their work.

from both the failures and the successes can catalyze the emergence of innovative practices (Ahern, 2011). In this instance, the purpose of the safe to fail experimentation was to accelerate and expand the participants' creativity while the system was at a far from equilibrium position on the metaphorical order/chaos continuum, as shown in Figure 5.

Safe to fail experiments—experiments that are low risk and will not create significant adverse impacts if they fail—are increasingly applied in wicked scenarios (Zivkovic, 2015). Because wicked scenarios rarely have a single solution, it is pragmatic to look for multiple resilience strategies that can cocontribute to achieving potentially beneficent change (Dickens, 2012). Undertaking a series of safe to fail experiments increases the variability (ideas and opportunities) within the system, thereby increasing the

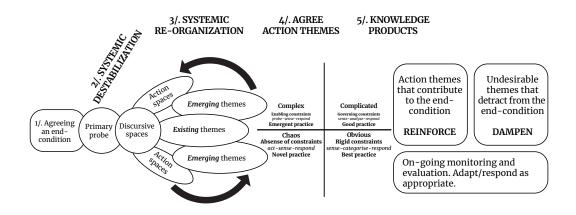


Figure 4. The Taming Wicked Problems Framework

DISCURSIVE AND ACTION SPACES

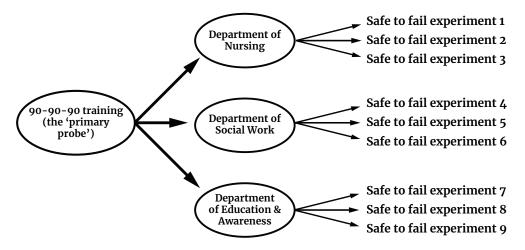


Figure 5. Multiple Safe to Fail Experiments Influenced by the 90-90-90 Training

Identifying Action Themes: Monitoring, Analyzing, and Evaluating the Systemic Reorganization

This phase in the Framework represents the "sense" in Snowden and Boone's (2007) probe-sense-respond management strategy. Sense making is typically understood to mean how organizations (Weick, 1995) or individuals (Dervin, 1998) make sense of the world so that they can act in it. The university component of the partnership agreed to take responsibility for the initial sensing of the emergent changes that would be validated by WWS at a later stage in the project. Three types of sense making enabled the themes to become visible and eventually to be refined into action themes.

Sense making (Phase 1): Community focus. During this period WWS and their client constituencies were undertaking safe to fail experiments and simultaneously making Sense making (Phase 2): Causal layered sense of the impacts. Throughout this period *analysis (CLA)*. In order to identify potential the university component of the partner- themes, the university component of the ship did not influence which aspects of the partnership analyzed all of the qualitative training were going to be applied by WWS, data that had been collected during the inbut they did visit regularly and undertake terviews and discussions, using a qualitative formal and informal discussions relating methodology called causal layered analysis to the project. The monitoring focused on (CLA). CLA is associated with futures scienwhich components of the training WWS tist Sohail Inayatullah, but an adapted CLA personnel believed would add value to their variation developed by community psycholeducational and awareness materials and ogists Bishop and Dzidic (2014) was applied. the responsiveness of their client constitu- CLA is designed to provide a method for encies to the new materials—corresponding the "deconstruction and analysis of comto the discursive spaces and action spaces plex [anthropogenic] issues." The focus of shown in Figure 4. During this period it CLA is the "[submerged] root of the issue" became evident that the movement from the being scrutinized—as well as the surface

equilibrium deficit situation toward chaos, as well as the subsequent reorganization toward a new close to equilibrium position, had involved what Brook, Pedler, Abbott, and Burgoyne (2015, p. 369) have described as "critical unlearning" of the information contained within the outdated ABC messaging among both WWS and their client constituencies. With time the unlearning gave way to reframing, as described by Goffman (1974), of the ABC influence in favor of the 90-90-90 strategy. These shifts were captured using conventional qualitative narrative collection techniques (recordings, note taking, translation, back translation, and so forth). Six months after the consultants' training, it was becoming evident from the qualitative findings that a saturation point was being reached, which suggested that the system was settling down into a new equilibrium position.

descriptors—so that opportunities "for Boone, 2007). In this instance the findings genuine, transformative change to occur" of the CLA analysis were triangulated with may emerge (Bishop & Dzidic, 2014, p. 16). the Cynefin framework in order to problem-

Sense making (Phase 3): Partnership decision *making*. Once the interviews and discussions had been analyzed using the CLA method, feedback was presented to WWS at a 2-day decision-making dialogue. The purpose of the dialogue was to critically scrutinize the findings and make necessary adjustments prior to deciding which of the emergent themes would be focused on as action themes in the final stages of the project.

In order to identify the action themes that would be focused on, the following criteria were agreed on at the beginning of the dialogue. The action themes had to (1) "origins of HIV"; (2) that "HIV, if treated contribute to reducing the aggregate community viral load; (2) be accompanied by some evidence that the emergent theme was producing some beneficent impacts in a reasonably predictable way (i.e., was showing signs of becoming ordered); (3) be the influence of the broader community themes that the client constituencies were and stigma, but the partnership believed repeatedly drawn to in a patterned way (i.e., that at that stage these themes were outthe proposed action themes would not be random or ad hoc); and (4) require minimal these themes were "parked" but monitored resources to implement.

The dialogue was augmented by a joint *Rationale for the action themes*. The partneranalysis of the findings from the perspec- ship decided that three topics were importive of complexity using the Cynefin frame- tant action themes for WWS and their client work. The Cynefin framework (represented constituencies: (1) the "origins of HIV"; (2) in the image underneath the words "agree "HIV, if treated using antiretroviral therapy, action themes," Figure 4) has been applied was now a chronic disease and not a death in multiple projects involving anthropo- sentence"; and (3) the "viral load." The genic complexity. The Cynefin framework viral load and the transformation of HIV was designed to enable decision makers to into a chronic disease, not a death sentence, ascertain whether a particular challenge is dovetailed with the biomedical logic of the ordered (linear), unordered (nonlinear), or 90-90-90 strategy. However, the relevance contains combinations of both (Snowden & of the origins of HIV was far more am-

atize, verify, and then consolidate evidence for the transition from emergent themes to action themes. Only themes that had moved from an unordered domain toward or into an ordered domain were considered to be legitimate potential action themes that would be focused on in the final phase of the project (Burman & Aphane, 2016c).

Agreeing on the Action Themes

Based on the outcomes of the multiple forms of sense making and the 2-day dialogue, three action themes were selected to be focused on, as shown in Figure 6: (1) the using antiretroviral therapy, was now a chronic disease and not a death sentence"; and (3) the "viral load" (Burman & Aphane, 2016a). Other themes were identified that detracted from the end-condition, such as side their immediate control. Consequently, throughout for any change.

DISCURSIVE / ACTION SPACES

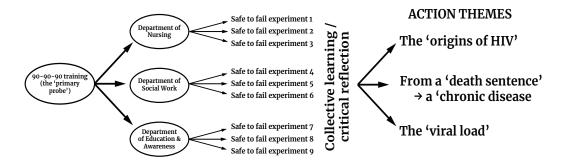


Figure 6. Identifying and Agreeing on Action Themes

biguous to the university component of the partnership and is worthy of more detailed explanation in order to provide context.

The origins of HIV: Some history. When WWS endorsed the origins of HIV action theme, the university component of the partnership requested clarification about why this theme was relevant. WWS's Education and Awareness Unit provided localised insights. (1) The origins of HIV—quite literally Awareness Department. By the end of 2015, "where HIV originally came from"—is an issue that had been historically contested and debated by their client constituencies. (2) In the local language, Sotho–Tswana, the word makgoma is the name of a traditional with support groups for people living with disease that has similar symptoms to HIV- HIV, many of whom were traditionalists. related coinfections, such as tuberculosis Initial findings from that monitoring indi-(Mabunda, Khoza, Van den Borne, & Lebese, cated that combined use of the three action 2016), and there is often confusion among themes was opening spaces for critical diathe client constituencies as to whether logue relating to the client constituencies' particular symptoms are caused by HIV or personal experiences with HIV and treatmakgoma. (3) The confusion between the ment strategies. In turn, the dialogues and origins of HIV and makgoma contributes to action themes were contributing to an indelays in testing for HIV and interruption of crease in adherence to antiretroviral therapy treatment among traditionalists in the area. and a decrease in internalized stigma among

The localised conflation of HIV and makgoma reflects a phenomenon called medical pluralism. Medical pluralism reflects different understandings of disease causation which influences health-seeking behaviors (Dubois, 1961; Ibeneme, Eni, Ezuma, & Fortwengel, 2017). In the context of HIV and AIDS in eastern and southern Africa medical pluralism is associated with delays in HIV testing and the interruption of treatment (for a few examples see Kalichman & Simbayi, 2004; Leclerc-Madlala, Green, & Hallin, 2016; Moshabela et al., 2017; Pantelic theme to be developed into a knowledge et al., 2015; Shirindi & Makofane, 2015; Zuma, Wight, Rochat, & Moshabela, 2018). In Limpopo Province health care professionals also report that the high levels of implementation strategy is low cost and nonadherence to antiretroviral therapy are "due to the use of traditional or alternative medicine" (SANAC, 2016, p. 77). The localised conflation of HIV and makgoma described by the Education and Awareness unit is one such manifestation of medical pluralism in South Africa which is reinforced by an excerpt from a local newspaper report:

Culturally, we believe that you have makgoma (dirty blood) if your lover passes away, and if you don't get proper cleansing and rituals, anyone you sleep with will get so sick, and even have the same symptoms as

someone with full-blown AIDS. So it is imperative to follow the correct rituals. (Disetlhe, 2014, quoting a representative from the National House of Traditional Leaders)

The impact of the action themes. Due to resource constraints, the partnership decided that the action themes would only be monitored in detail with WWS's Education and the action themes had been firmly embedded within the educational and awareness materials that the Education and Awareness Department were using in deep rural areas members of the support groups who were influenced by traditional values (Burman & Aphane, 2016b). Two years later, the action themes continue to have similar utility, and the information about the action themes has been requested by other support groups, indicating an increase in localized demand (Burman & Aphane, 2019).

From Action Themes to Knowledge Products

The partnership agreed that for an action product required that (1) there is empirical evidence that the theme either delivered or contributed to a tangible output, (2) the replicable (i.e., ordered), and (3) there is sufficient external demand for the action theme to be developed into a financially viable product so that third stream income (i.e., income other than government funding and payments from students) can be generated from it. At the time of writing the action themes have been shown to achieve (1) and (2) but have not yet been developed into third stream income knowledge products.

Discussion

The discussion begins with a reflection on the metatheoretical positioning of the

taming wicked problems framework. This is brought to the partnership. followed by reflection on implementationlevel issues that have emerged through the Negotiating imperfect knowledge and serenlearning from this project.

A Metatheoretical Reflection

interest in wicked problems in the con- members within the metaphorical order/ text of shocks and resilience. It has been chaos continuum in pursuit of creativity argued that wicked problems persist in and possible innovations. This necessarily part due to quasi-reductionist mind-sets required working with imperfect knowledge that do not incorporate nonlinear dynam- and exploiting emergent serendipitous opics into either the problem-framing or portunities if—and when—they occurred. problem-solving efforts (Zywert & Quilley, Both imperfect knowledge and serendip-2017). Such mind-sets have been described ity represent an essential, yet ambiguous, as leading to a form of "technocratic tyr- strategy for any type of engaged research. anny" (Waltner-Toews, 2017, p. 1) enabled However, the Framework is implicitly hardby the assumption, despite evidence to the wired to reduce ambiguity using a series of contrary, that increased access to scientific filters because sense making—how people information—implicitly derived through make sense of the world so they can act reductionist mind-sets—is the key ingre- in it—was used to direct the early phases dient required to tame the growl of wicked of the project. Figure 7 illustrates how the problems (Newman & Head, 2017).

The Framework was developed to put distance between the project design and the restrictive quasi-reductionist parameters that Zywert and Quilley (2017) and others have been critical of because—in the spirit At the beginning of the partnership, WWS of Pacanowsky (1995)—both anthropo- was stuck at a self-proclaimed impasse—the genic systems and wicked problems contain "deficit situation" (Figure 7). At this point some nonlinearity. In contradistinction, the the system was close to equilibrium, with Framework design set out from the prem- insufficient inputs to stimulate the levels ise that (1) anthropogenic systems contain of creativity required to catalyze change. both linear and nonlinear dynamics and The training—the primary probe—was (2) people, unlike machines, are capable designed to change the context and begin a of responding to a change in context (i.e., process of moving the WWS system toward it is normal for anthropogenic systems to a far from equilibrium position in order to move within the metaphorical order/chaos open creative spaces that would produce the continuum). Consequently, the Framework basis for updated educational and awareness design aimed to maximize opportunities materials-and ultimately to aim for altered afforded by the naturalistic capabilities of social practices. The training contained anthropogenic systems (i.e., to move within abstract, global biomedical knowledge about the metaphorical order/chaos continuum) HIV and AIDS in the context of 90-90-90, as a strategy to develop resilience to the as well as firsthand experiences (one of the wicked problem rather than to try and solve trainers had been living with HIV for 32 the problem.

Implementation-Level Reflections

The implementation-level reflections include brief statements about (1) the way that the Framework is designed to work with imperfect knowledge and serendipity, (2) The initial constraint—the end-condition the movement from global abstractions (the (a reduction in the aggregate community global 90-90-90 strategy) to social prac- viral load)—was as abstract as the training, tices that make sense in particular locali- but it immediately moved the focus from ties, (3) the engaged values that developed global to local/community. From that point during this project, and (4) the benefits that on—the destabilization, reorganization, and engaging with nonlinear complexity has identification of action themes phases—the

dipity. Developing resilience strategies to the deficit situation relating to HIV risk reduction messaging that WWS identified required multiple journeys into Stacey's (2000, p. 92) There has recently been a resurgence of "unknowable futures" by different project Framework incrementally filters abstract global knowledge toward a local level of granularity using a series of techniques that recursively constrain the global potentials toward local relevance.

> years). The training prompted a shift in the systemic context from order toward chaos, and WWS responded with a combination of unlearning and reframing, which provided a basis from which they began to reimagine their working environment.

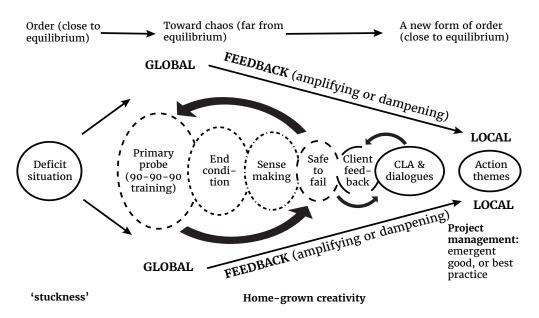


Figure 7. Facilitating and Managing Ambiguous Serendipity in a Wicked, Engaged Context

local/community abstraction was gradually but manifest in particular ways in differfurther constrained though a series of itera- ent geographical settings (Taleb, 2007), granularity by each of WWS's departments. resilience to these types of global chalback—as opposed to expert–derived feed– of the three action themes. back—as it emerged. With each iteration the partnership gradually became increasingly focused toward localized relevance until the agreed-on action themes were selected. In order to emphasize this point, the following paragraphs revisit the "origins of HIV" action theme, using added details to demonstrate its relevance.

origins of HIV. Despite the use of imperfect the partnership initially represented weak knowledge and the adoption of serendipi – signals with only the potential to contribtous opportunities, the project moved from ute to building resilience to the wicked a global abstraction—the biomedical logic problem. By rapidly reinforcing the weak underpinning the 90-90-90 strategy in- signals during the return journey toward troduced as the primary probe-through a new form of order, the Education and numerous iterations that have become Awareness Department embedded the weak consolidated into locally relevant social signal—the combination of action themes practices (a form of praxis). Movement as a legitimate concept with "sequence and from a global abstraction to localized social meaning for those who live, create, or inpractices is relevant because many wicked terpret them" among the support groups problems originate from global sources (Fisher, 1984, p. 2; Figure 8).

tive transitions defined to different levels of so it is necessary to build locally relevant These transitions were mediated by sense lenges (for an example of the importance making during the safe to fail experimenta- of building local resilience to a global HIV tion, ongoing dialogue and sharing of sto- epidemic, see Piot et al., 2015; Wilson & ries and information among participants, Halperin, 2008). The Framework was able the causal layered analysis, and subsequent to facilitate this movement from a global dialogue. It was also mediated by WWS's abstraction (medical pluralism) to localized professional relationship with their client social practices (an increase in adherence constituencies. These iterations both en- to antiretroviral therapy and a decrease in abled and constrained the partnership to internalized stigma among traditionalists respond to empirical home-grown feed- living with HIV) through the combination

With the benefit of hindsight, the most plausible explanation for the utility of the Framework relates to feedback within the anthropogenic system. Behavioral change associated with anthropogenic systems is typically associated with adaptive or, on occasion, exaptive responses to exogenous shocks (Johnson, 2010). In this instance, *From global to local: Medical pluralism and the* the action themes that were identified by

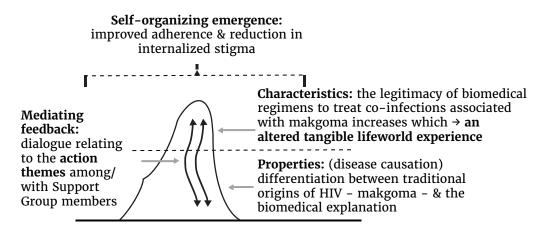


Figure 8. A Plausible Explanation of the Combination of Factors that Influenced the Change

namics that have been the focus of this system was stuck within a deficit situation article, this explanation seems plausible. (a closed system with insufficient ideas), However, far less certain—and, ultimately, the first steps toward unblocking the stuckfar more relevant—is how the support ness required loosening the constraints on group members received and responded to the system so it moved from being a closed the change in their understandings about system to being an open system in order to disease causation. This area of ambiguity generate conditions that might enable new will be investigated further, because if the ideas to circulate. This required destabiintervention is to be shared it is likely to be lization of the system toward the edge of a critical mediator of the potential utility chaos and then doing what could be done of the action themes in other sociocultural to manage the transition back to order by contexts.

From global to local: The engaged values that *facilitated the movement*. Most texts relating to community engagement in South Africa include several descriptors concerning the dynamics enabled the project leadership to relationship between academe and local frame the project as an exploratory journey communities that are becoming commonplace (horizontal relationships, coproduction of knowledge, mutually beneficial, responsiveness, joint decision-making, and so ing that the WWS system was undertaking forth—for a synopsis see Beaulieu, Breton, & Brousselle (2018). In this instance, similar values developed. Table 1 describes the mary source of influential action clues used engaged values that emerged through the process of moving from a global abstraction to a locally defined level of granularity and associated shifts in social practices. The in it" enabled the partnership to move from values that emerged were not a complementary add-on but a prerequisite for the partnership to reach its full potentials.

complexity. The primary benefit from the linear and nonlinear dynamics also justified explicit attempt to incorporate both linear the use of different facilitation techniques and nonlinear dynamics was the shift in the at appropriate moments during the project. project leadership's mind-set from stuck- Although, at first glance, the incorporation ness to creative potentials. At the level of of both linear and nonlinear dynamics into

From the perspective of the system dy- theory, the implication was that as the WWS focusing on the emergent feedback within the system.

At a more pragmatic level, the attempt to incorporate both the linear and nonlinear that would have to be negotiated, rather than an activity with a road map guided by scientific evidence. For example, recognizan exploratory journey into the unknown justified the use of sense making as the prito focus the earlier phases of the project. Ensuring that sense making was applied as "making sense of the world so you can act a global abstraction (the biomedical logic of 90–90–90) to localized social practices by following the logic of the action clues rather than relying on externally imposed best, or The benefits of engaging with nonlinear good, practices. The incorporation of both

Table 1. Values Associated with Engaged Scholarship That Emerged During the Project	
Phase	Values
1. Agreeing on an end-condition	Mutual refinement/agreement on the boundaries of the project = horizontal decision-making.
2. The training (primary probe)	The training prompted mutual unlearning, reframing, and eventually reimagining.
3. Sense making	Participation gave way to roles and responsibili- ties in that the university did not influence decision making during the systemic reorganiza- tion phases, which contributed to improved levels of trust within the partnership.
4. Safe to fail	Once again, the focus was on appropriate roles and responsibilities. Learning from the failures contributed to mutual unlearning and co-learn- ing.
5. Client feedback	This was extremely important and reflects WWS's relationships with their client constituencies. Typically, prior relationships between a com- munity partner and their client constituencies are rarely mentioned in engagement literature. In this instance, these relationships and the com- munity network were critical mediators of the outputs during the project.
6. CLA	This says more about roles and responsibilities. The university students were able to use this ex- ercise for academic purposes and the community did not become involved. It represented a mutual benefit for the partnership.
7. The community–university dialogue	The dialogue was open, honest, and focused. This reflects the relationships that had developed in the preceding months = co-decision-making.
8. Coproduction of knowledge products	The commitment to take the initiative further now represents a shared vision of the potentials of the findings and impacts of the engaged research.

Next Steps for the Partnership

The unintended adverse effects of traditionalism on the trajectory of the HIV and The ambition of the project was to de-AIDS epidemic in South Africa have been velop a framework that would provide the documented since 2003 (Stadler, 2003), but partnership with the agility to work with to date there have only been fragmented, anthropogenic complexity, rather than try Consequently, the current ambition of the context of resilience, the taming wicked partnership includes coproducing further problems framework was found to be fit empirical evidence to determine whether for the purpose. The partnership has not

the Framework design may seem slight, the action themes can be transferred it did in fact "produce disproportion- into interventions in other districts and ately major consequences" (to paraphrase provinces. It is also hoped that knowledge Snowden & Boone, 2007, p. 71, once again). products can be developed that will provide third stream income for the partnership.

Conclusion

short-lived interventions designed to coun- and fit mechanistic models underwritten by ter them (Leclerc-Madlala et al., 2016). reductionism into wicked contexts. In the

aspects of the problems has developed. It is of building resilience to wicked problems believed that the system-level focus—one that could have utility in other disciplinary that was inclusive of both linear and non- spheres. linear system dynamics—is a functional

solved all of the problems, but resilience to addition to engaged research in the context



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Berkey, B., Meixner, C., Green, P. M., & Eddins, E. A. (Eds.). (2018). Reconceptualizing faculty development in service-learning/ community engagement: Exploring intersections, frameworks, and models of practice. Sterling, VA: Stylus. 348 pp.

Review by Paul H. Matthews

chapters of this edited volume worthwhile, cesses around the genesis and organization providing me both a deeper understanding of the volume, which they characterize as a of some of the breadth and possibilities inherent in this work as well as several new ideas and challenges to the status quo of my faculty development activities. However, although the book's dozen chapters and ancillary introductions individually provide interesting standalone reading, they do not always cohere across the volume. Likewise, the editors' goal of providing description and analysis of approaches to faculty development around S-LCE is more fully accomplished than their simultaneous "invitation for the reader to reconceptualize our work in educational development and S-LCE" (p. xxvii) in transformative ways.

Structurally, the book includes 12 chapters, organized into four parts. It also includes a Foreword by L. Dee Fink, and both a Preface by coeditors Emily Eddins and Patrick Green, and a "narrative introduction" chapter from all four editors. Prior even to the introductory components, a chart of case studies presents the range of institutions and "takeaways" included in three midbook chapters, further priming the reader to assume that description of programming will be the primary focus of the volume. There is also a three-page listing of the assorted acronyms used by the authors across the chapters, including numerous institution-specific program names, which might have been better placed at the end, with the author biosketches and index.

In framing their volume, coeditors Becca community-engaged teaching, scholarship, Berkey, Cara Meixner, Patrick Green, and documentation, and activities. The authors

s a service-learning and commu- Emily Eddins note the ubiquity of faculty nity engagement (S-LCE) profes- educational development responsibilities sional with a substantive faculty among the roles of most community endevelopment portfolio, I found gagement professionals. Their Introduction reading and reflecting on the not only addresses the editors' thought procollaborative ethnography with self-reflective chapter contributions, but also includes a shared narrative inquiry and analysis of their own positionality that goes somewhat afield from the stated focus on faculty development. They do eventually circle back to their thesis of S-LCE professionals as hybrid "third-space professionals" (Whitchurch, 2013) occupying a "borderland" (Anzaldua, 1987) of educational development in order to connect and manage the range of needs, responsibilities, and constituents inherent in the role. They further extend a "narrative invitation to you, the reader, to reflect on your own experiences, values, and identity within the context of your own professional narrative" (p. xxv), encouraging the reader not only to reflect but actually to write reflective responses to the editors' prompts.

> Part 1, "The Landscape of Faculty Development and Community Engagement," includes two chapters, beginning with Marshall Welch and Star Plaxton-Moore's excellent contribution. They effectively argue that the role many community engagement professionals now play goes beyond just "faculty" development. This more comprehensive role entails "professional educational development for multiple stakeholders and contexts" (p. 29, emphasis in original), also supporting administrators, community partners, and others. Likewise, this work encompasses

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position the S-LCE professional at the hub Faculty Development in Service-Learning/ of a conceptual wheel representing these Community Engagement," constitute the contexts and stakeholders. They further bulk of the volume's case studies of proflesh out this model with a competencies- gram models. In Chapter 3, Emily Gravett based chart that includes factors to con- and Andreas Broscheid prepare the reader sider, impact measures, and the locus of with a good, if basic, summary of types, rechange for each. Welch and Plaxton-Moore sources, outcomes, benefits, and drawbacks also provide a useful overview of the state of of possible short- and long-term faculty the field, with a literature review on S-LCE development programming. Appropriately, faculty development as well as a survey of they draw upon models for instructional professionals based on themes from the design, advocating for starting from desired review, sketching out who takes part in learning objectives of faculty development development activities, common structures to determine the most appropriate educathereof, and frequent program content and tional activities and programming. Gravett structures. They note that many reported and Broscheid's typologies could be helpful activities appear ungrounded in research in developing a self-assessment or checklist on adult learning theory, and point out the for centers and engagement professionals contradiction that although S-LCE profes- interested in surveying their own faculty sionals generally cover assessment in what development offerings. In fact, I found their programs teach, most programs do not myself literally checking next to each type actually implement effective assessment of professional development offered by our themselves—"both a pedagogical and ethi- university (e.g., workshops, faculty learncal issue" for the field (p. 54). Finally, the ing communities, incentive and recognition authors advocate for rethinking the role of programs) and likewise interrogating the the S-LCE professional development from possibility of new programming ideas (e.g., "developing and delivering effective 'workshops' limited to a few hours on the 'nuts' and bolts' of course construction to using collective action to transform the institution and advance the public purpose of higher education" (p. 55). I found this recommendation, as well as their consideration of competency-based models, promising directions for the prospective "reconceptualizing" of educational development suggested by the book's title, and wish more of the volume had been structured to build on this chapter's lead.

In Chapter 2, Timothy Eatman draws upon his extensive experience with Imagining America to further take up the call for transformation. Reflecting on the changing U.S. higher education landscape, he considers how professional development, especially a "faculty as co-learners" model (p. 68) oriented toward publicly engaged scholarship, might help enhance the agency of faculty of all types to contribute productively to their institutional imperatives as well as to the public good. After providing examples of initiatives and campuses experiencing success in promoting publicly engaged scholarship through faculty development, Eatman concludes by advocating for the "power of story" (p. 75) both in strengthening faculty development models and in transforming and humanizing higher education.

The five chapters of Part 2, "Models of ing), Indiana University Purdue University-

faculty/student partnerships, roundtables) based on their helpful overview.

In Chapter 4, institutional case studies from Boise State University, Georgia College & State University (GCSU), and Portland State University profile contexts, implemented program models, outcomes, and lessons learned from each site. Although case studies sometimes can run the risk of being too specific to be useful, here the authors take care to contextualize each setting but also to extrapolate and reflect, and in all three cases the framing of how their professional development offerings changed across time as programs matured was illuminating. I particularly benefited from the reflection on the framing of Boise State's programming as being responsive to differing faculty profiles (fast-track, planners, and deep planners), as well as to phases of their trajectory (entry, practice, advanced, and mentor phases). Portland State's evolution from focusing on individual faculty practitioners to broader group and structural supports (e.g., the engaged department) and GCSU's focus on "practitioner development"—including community partners as well as faculty—were likewise notable takeaways for consideration in my own practice. Chapter 5 takes a deeper dive into faculty learning communities (FLCs), with case examples of FLCs from the University of San Francisco (focused on community-engaged learnHopkins (an online community of practice). ming. Thus, the chapter reads more like These examples, especially those showing an extended teaching philosophy narrative how FLCs can bring about campuswide than a targeted contribution for advancing change (e.g., promotion and tenure mate- reader understanding of educational derials, curriculum change) led me to recon- velopment per se. Chapter 10, "Reciprocity sider some of the goals and activities of the and Partnership," feels similarly out of learning community our office facilitates place. Although the authors (Gabriel Ignacio as well, with an eye toward enhancing Barreneche, Micki Meyer, and Scott Gross) its impact and scope. Three more insti- provide a solid review/overview of common tutional cases (Saint Joseph's University, principles and challenges in community-Marquette University, and University of campus partnerships, fleshed out with ex-Central Florida) are featured in Chapter 6 amples from their own institutions, there as "mission-driven, low-cost creative prac- is only limited consideration given to the tices" (p. 159). This chapter overcame my faculty development aspects of this work. In initial skepticism, providing ideas and in- between, in Chapter 9, Stephanie Stokamer sights into value-added program elements uses Pacific University as the setting to such as faculty mentoring (Saint Joseph's), consider how institutional characteristics, development of common critical reflec- priorities, and culture influence community tion prompts and rubrics to support fac- engagement work, and subsequently, faculty course management (Marquette), and ulty development that supports this work. embedding service-learning training into Given that this chapter was also essentially larger university professional development a case study, it might have been more effecconferences (UCF).

Coeditors Meixner, Berkey, and Green return in Chapter 7, the concluding chapter The final two chapters comprise Part in Part 2, framing it as a transition between 4, "Engendering Change in Educational the case studies and the more conceptual Development," beginning with Chapter chapters in the second half of the volume. 11's focus on connecting faculty develop-They provide a short overview of the his- ment to scholarship. Sherril Gelmon and tory of "educational development," again Catherine Jordan structure their chapter highlighting this more inclusive term en- around findings from a study on community dorsed by the Professional Organizational engagement professionals' perspectives on Development (POD) Network. Finally, they why they undertake publication and other draw similarities between and advocate scholarly work. The authors advocate for the for more intentional collaboration among value of creating scholarship about S-LCE educational development professionals educational development activities, includand offices (e.g., centers for teaching and ing in collaboration with faculty, students, learning) supporting pedagogical develop- community partners, and professionals on ment more broadly, and the related efforts other campuses. They note that "by creof community-engagement professionals ating, delivering, and studying the impact who work with faculty, staff, students, and of faculty development programs, S-LCE community partners in service-learning professionals have the opportunity to apand engagement-specific activities.

Part 3, "Challenges and Opportunities in Pedagogy and Partnerships," includes three chapters that were, for me, the least successful in contributing directly to the overall volume's focus. In Chapter 8 Chirag Variawa reflects on teaching engineering courses using a service-learning component and suggests that structured frameworks such as universal instructional design are helpful in designing such courses. Including faculty voice in a book about faculty development. In the volume's final chapter, Richard would be a welcome perspective, but in this Kiely and Kathleen Sexsmith present their case the author does not appear to have "transformative model for faculty developtaken part in—nor indeed to reference— ment in S-LCE . . . intended to assist fac-

Indianapolis (public scholarship), and Johns any professional development programtive earlier in the volume, for instance prior to the other cases in Part 2.

> proach their work in a scholarly manner as well as to develop scholarship from their programmatic activities" (pp. 273-274). Their chapter also provides direct advice for those engagement professionals interested in undertaking such work, including an initial list of potential research questions around faculty development, considerations around publication, and advocacy for the importance of such scholarly work in one's role and position expectations.

ulty and S-LCE professionals with critical as a whole does not necessarily equip the reflection on their own assumptions about reader to do so, instead primarily describedge generation (including scholarship of contemplate a broader range of stakeholdimportant for faculty to gain a deep under- less a chapter authored from this perspecof andragogy or adult learning theory should in educational development program – likewise be applied in designing educational ming would have been a welcome addition, dertaken with an integrative, metacognitive such programs. Perhaps most surprisingly, their assumptions and principles en route entirely, focusing instead on ancillary serto transforming them.

Taken as a whole, then, Reconceptualizing Faculty Development in Service-Learning/ Community Engagement has substantial value for those who do the work of educational development in these spaces. It not only helps the reader survey the "lay of the land" through a diversity of cases and examples, but also spurs us to consider what we may be missing, overlooking, or not yet striving for in our professional development efforts. However, although many of "transformation." the chapter authors call for "transformation" of and through this work, the volume

what constitutes robust S-LCE theory and ing and categorizing faculty development practice" (p. 283). The authors argue that activities. Even within that descriptive faculty development should go beyond a space, some elements are lacking, and the traditional focus on pedagogy and instead focus is clearly on the S-LCE professional's intentionally integrate considerations of role and experience. For instance, despite teaching, community partnerships, knowl- recommendations by several authors to teaching and learning), and institutional ers for educational development, such as culture within a context of relationship graduate students or community partners, building and boundary crossing. They sug- very little is posited to consider what such gest that dissonance and reflection are a reconceptualization might entail, much standing of the field's "threshold concepts" tive. Likewise, a section or chapter focused (p. 288) of reciprocity, reflexivity, position- on the voices and experiences of faculty ality, and critical reflection, and that tenets members or other recipients/participants development activities for faculty. Finally, rather than coverage restricted to targeting they suggest that this work should be un- the experiences of professionals who lead lens that fosters critical awareness across some chapters seem to lack an orientation these four areas, helping faculty surface toward the topic of educational development vice-learning topics that do not advance the overall agenda of the volume. Still, as part of the broader understanding of the important roles and responsibilities of community engagement professionals in higher education (e.g., Dostilio, 2017; Post, Ward, Longo, & Saltmarsh, 2016), this book is successful in stimulating deeper thinking around the challenges, possibilities, and practices of educational development as a tool for not only enhanced teaching and learning, but perhaps even for institutional change and

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St. John, E. P., Lijana, K. C., & Musoba, G. D. (2017). Using action inquiry in engaged research: An organizing quide. Sterling, VA: Stylus. 166 pp.

Review by Jessica V. Barnes-Najor

question (Doberneck, Glass, & Schweitzer, tors, administrators, and students). Others 2010). Given the focus on community rel- who have explored the features of engaged evance, engaged research is generally used scholarship have described the processes as a mechanism to support action to ad- and strategies as those actively used by dress questions posed by the community. community and research partners alike Because many different disciplines and (Fisher & Ball, 2003; Israel, Schulz, Parker, sectors employ engaged research ap- & Becker, 1998; Wallerstein & Duran, 2017). proaches to gather information to support This perspective is likely driven by the our understanding of what happens in tightly bound disciplinary focus of the book. natural settings, the terms used to describe Although the work is focused exclusively the participatory process are varied and wide-reaching. Some of the terms used to promoting equity in the education system, describe such efforts include communitybased participatory research, community-based research, tribal participatory research, systemic this review, I will explore the organizing action research, participatory action research, action inquiry, and participatory rapid appraisal (Burns, 2007; Fisher & Ball, 2003; Israel, Schulz, Parker, & Becker, 1998; Kemmis & McTaggart, 2005; Wallerstein & Duran, In "Getting Started," Chapter 1, the authors 2017). In St. John, Lijana, and Musoba's provide a broader definition of action inquiry. Using Action Inquiry in Engaged Research: An one in which action inquiry is "defined as Organizing Guide (2017), engaged research observations, reflections, and information and action inquiry are used to describe from research" (p. 5). Using this broader distinct elements of the engaged process definition, they describe how the initial in the study of promoting social justice in processes of action inquiry can be used to education.

In the Introduction, St. John, Lijana, and Musoba provide definitions of *action inquiry* and engaged scholarship specific to their research field, and in the five subsequent chapters, the authors further define the terms and provide examples of these definitions in use. As stated in the Introduction, "Action inquiry provides a means for designing and evaluating intervention in education systems and practices to promote equity" Providing guidance for developing action (p. 1). The authors then define engaged within action inquiry in Chapter 2, "Focus scholarship as "a strategy that educators, on Barriers to Social Justice," the authors administrators, and students can use in highlight ways to address underlying causes

ngaged research is a broad term partnerships with researchers to build used to classify research endeav- knowledge and skills to support and inform ors that involve researchers and the change process" (p. 1). It is interesting community members partnering that the authors define *engaged* scholarship to address a community-relevant as a strategy used by community (educaon action inquiry and engaged research in many of the organizing principles and key points are relevant across disciplines. In principles and key points in each of the five chapters, describing how they apply to engaged research broadly.

> support efforts to reduce educational inequities. They outline three initial processes important for the approach within the field, which, when broadly defined, are certainly critical in supporting engaged research in any discipline: (1) Develop an actionable theory of change, (2) identify committed partners and form networks, and (3) gather information about community challenges and strengths.

within an engaged process allows resource and knowledge sharing.

organizing change are presented, and ex- the U.S. education system. Consequently, tasks can be used to support equity in edu- new to employing engaged research praccation. The four tasks presented are action- tices to address equity in the education The first of these four tasks, organizing work to consider: (1) the challenging readcombine the knowledge of practitioners, for the reader to follow the examples protask, identifying feasible projects that will acronyms that are introduced in early chapprovide rapid results. Once projects are ters and then returned to in later chapters. identified, workgroups are encouraged to Readers will need to look up the acronyms and support the development of the project. is focused on the readability of the book, The fourth task identified in this chapter it is related to the second critique regardis focused on the use and dissemination ing the depth of the content. Perhaps in of findings. Throughout all four tasks, the part due to the lack of continuity and flow project. It is through the partnership that gets a sense of the whole or the big picture the work is conducted. This is reflected of what it means to use action inquiry in clearly in the case examples provided at the engaged research. The lists of the principles end of Chapter 3.

The emphasis on "action" within action inquiry, as described by St. John, Lijana, and Musoba, is a central tenet throughout the book. What is the purpose of research on education if not to help us make positive changes in our educational system? In order to make such changes, action must be taken. Chapter 4 serves as a guide for how research can be used to support taking For those wanting a deeper dive into these action for creating change through policy concepts, a number of interrelated literature

of identified problems rather than focusing and practice. At the heart of action research on the symptoms of those problems. The is the notion that there is a team, or workauthors describe three necessary practices group as discussed by the authors, consistthat can be described in broad, interdis- ing of community members, practitioners, ciplinary terms: (1) Identifying barriers and researchers who partner to codevelop that can be addressed by intervention, (2) an understanding of the problem, identify gathering existing data to inform the de- and assess potential solutions, and develop velopment of the intervention, and (3) ana- an action plan to address it. Research is delyzing data to understand challenges and scribed as an integral and parallel process identify potential interventions. Although that informs the workgroup. After providthese three practices can be used to support ing case examples of how action research the initial planning phases for intervention and action inquiry inform change agents in projects across disciplines or sectors with- school settings, Chapter 5 presents an inteout using engaged processes, the examples grative summary of these processes through in Chapter 2 illustrate how the collaboration reflections on the authors' own experiences.

What is most intriguing about this book is the way engaged research, action inquiry, In "Organizing for Change," Chapter 3, and action research are described broadly organizing is described as a core process and then applied very specifically to the field within *action inquiry*. Four tasks critical for of education and the challenge of equity in amples are provided to illustrate how these this book might be most useful for those able steps that are important for engaged system. For those considering reading the intervention research across disciplines. book, there are two primary critiques of the workgroups with a variety of stakeholders, ability and flow of the text and (2) the lack is a critical first step, as these partnerships of depth of the content. First, it is difficult policy advocates, and researchers to guide vided, as they are described in pieces across action. Within the alignment of partner- different chapters, requiring the reader to ships, workgroups are then able to par- move back and forth through the book. This ticipate in activities related to the second is complicated by the use of a plethora of engage in the third task, planning and con- to recall their meaning and understand later ducting evaluation activities that can guide portions of the text. Although this critique partnership is integral to the success of the through the book, the reader never quite and ways to engage community in research that are offered across the chapters, without additional supporting text, lack the depth necessary to provide readers with an understanding of the intricacies of the interconnections within an engaged research project. Still, notwithstanding these criticisms, the book provides a helpful starting point for readers new to these concepts.

bases extend St. John, Lijana, and Musoba's forts (Bang & Vossoughi, 2016; Engestrom, book. Recent work has illuminated the vast 2011; Ishimaru, Rajendran, Nolan, & Bang, discrepancies in educational outcomes for 2018). students of different socioeconomic backgrounds, racial and ethnic backgrounds, and gender identities (Ahram, Fergus & the principles and practices described in Noguera, 2011; Skiba et al., 2011). School- this book, and they also provide a more based teacher teams working in tandem in-depth exploration regarding what we with researchers to use data to inform racial need to know about conducting engaged equity efforts (Coburn & Russell, 2008; Sun, research to create systems change broadly. Loeb, & Grissom, 2017; Sun, Penuel, Frank, Although focused on supporting equity in Gallagher, & Youngs, 2013) serve as an in- educational systems, the principles and teresting and tangible example of the work practices are similar across disciplines and discussed by St. John, Lijana, and Musoba. sectors. Engaged research in disciplines as These school-based teams work to change, diverse as medicine, fisheries and wildlife, at a fundamental level, how the education and psychology has moved toward practices system functions, disrupting disproportionalities in pedagogy and student discipline tioners, and community members (Collins practices (Lewis & Diamond, 2015; Sullivan, et al., 2018; Hartley & Robertson, 2006; Artiles, & Hernandez-Saca, 2015). The goal McGreavy, Randall, Quiring, Hathaway, & of such efforts is to change the education Hillyer, 2018; Schmittdiel, Grumbach, & system by addressing individual, collective, Selby, 2010; Vaughn et al., 2018). The goal and structural policies and practices; such systemic changes are challenging to enact. Extending the model of school-based teams, regulations structuring the system of focus. some researchers are including teams in the process of codesigning systems change ef-

These efforts highlight the importance of that involve teams of researchers, practiof these efforts is to cocreate knowledge that will inform the practices, policies, and

About the Reviewer

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Perna, L. W. (Ed.). (2018). Taking it to the streets: The role of scholarship in advocacy and advocacy in scholarship. Baltimore, MD: John Hopkins University Press. 148 pp.

Review by Roy Y. Chan



comprehensive introduction to the central new connections between higher education issues affecting higher education policy research, advocacy, and policy. Perna demadvocacy between academic researchers onstrates that scholars of higher education and policymakers. The 17 chapters of this policy must work collegially and collectively edited volume present narratives written by between and within groups when designing nationally and internationally recognized leaders that explore the professional pathways and methodological approaches used by faculty to advance diversity, equity, and ers to higher education scholarship but also inclusion in higher education. The book arrives at a pivotal time for the field of higher by linking critical models, methods, and education, during which scholars have been research tools for historically underrepreincreasingly criticized for their inability to sented and underserved populations. impact real-world policy problems with their policy research scholarship (Gordon da In Chapter 2, James T. Minor urges academic Cruz, 2018; Hillman, Tandberg, & Sponsler, 2015; Post, Ward, Long, & Saltmarsh, 2016; Tandberg, Sponsler, Hanna, & Guilbeau, 2018).

In Chapter 1, Perna frames the introduction of her book as a call for early career scholars to proactively disseminate and communicate research findings that resonate not only with the larger scholarly communities, but also with policy actors, both authorized (e.g., government, organizational, corporate) and unauthorized (e.g., teachers, students, administrators). Specifically, Perna calls upon the faculty to design community-engaged scholarship or publicly engaged scholarship that is applicable to college administrators, state policymakers, and the judicial system. She believes that policy, scholarship, and advocacy are vital mechanisms to effect social change, advance the public good, and strengthen democracy. Perna fleshes out several key themes raised in the succeeding chapters, with three guiding orientations: (1) "focus on policy analysis rather than politics," (2) "identify the best solutions from data and In Chapter 3, Mitchell J. Chang extends the

Ith Taking It to the Streets: The research," and (3) "recognize the roles and Role of Scholarship in Advocacy responsibilities of our positions" (pp. 3–7). and Advocacy in Scholarship, She challenges researchers to remain coghigher education scholar nizant and data focused as public intellec-Laura W. Perna provides a tuals or intellectual leaders when bridging policy-relevant research that advances the public good. The author notes the contemporary challenge of connecting policymakoffers practical solutions in this volume

> researchers to think and act as public intellectuals utilizing data-informed results or advocacy efforts to lead to improved policy outcomes for students. Pointing out that the role of scholarship in facilitating outcomes among research, advocacy, and policymaking is "more detached than connected" (p. 17), Minor emphasizes that higher education researchers must do more to strategically place their studies in policy environments in which their publication aligns with advocacy and policymaking activities outside the academy. Rather than pursuing purely individual intellectual interests, he urges higher education scholars to develop advocacy research agendas attuned to the interests of policymakers and other advocates, and thus more likely to influence policy issues. Minor concludes that, presently, "higher education research is a day late and a dollar short" (pp. 21-22). He challenges educatorscholars and practitioners to reevaluate the relevance of their research to ensure alignment with the agendas of policy leaders at the federal, state, and local levels.

faculty member of Asian descent at UCLA organizations, he recognizes the ongo-Studies, Chang discusses his efforts to administration) and faculty researchers, "gaze outwardly" to advance knowledge and the division of labor between them. newspapers, and (3) working with people to inform practice through social activism outside his scholarly community to apply as intellectual leaders in higher educahis research (pp. 25-26). Chang uses the tion. He challenges researchers to be selfexample of C. Wright Mills's Sociological Imagination (1959) to suggest that educator-scholars develop research agendas activists in the academy. guided by a broader vision and purpose to create social change in both the current and future world. Chang concludes that early career scholars must not only be engaged intellectually with a community of scholars but also should push traditional boundaries of academic discourse to advance diversity and inclusivity in higher education.

Donald E. Heller shares common ground with the authors of the previous three chapters. In Chapter 4 he provides an example of how scholars of higher education can influence public policy in order to improve college access and success of historically underserved communities. Through his work as both a scholar and scholar-activist, he highlights how educator-scholars must identify policy-relevant topics that are of interest, not just to oneself, but also to the greater community. Heller explains that having a passion for a specific research topic is perhaps the most important ingredient Based on her 25 years of experience as a to achieve academic relevance and success. Drawing on his prior work with the Tennessee Higher Education Commission, scholars to design and disseminate datahe describes the tension between higher education scholarship and policy implementation in the adoption of the Tennessee Lottery sponsibilities at Michigan State University, Scholarship Program in 2002. Although the she encourages educator-scholars to con-Commission did not adopt many of the ideas duct publicly engaged scholarship in their Heller proposed, policy leaders did consider research, translation, and advocacy. The a few areas of significance when assisting author believes that engaged scholarship with the policy process of the financial aid should be a scholar's ethical responsibility scholarship program. Heller concludes that as a faculty member and that advocacy must leveraging postsecondary research can best be integral to that work. influence policy and practice if universitybased scholars are willing to connect their scholarship with outside groups that are accessible to the public.

argument that higher education scholars vivid example of the growing disconnect bemust be scholar-activists in the academy if tween policy advocacy and evidence-based they seek to make an impact in their area policy investigation. From his experience of scholarship. Only the second tenured as a policy researcher at three education Graduate School of Education & Information ing tension between politicians (or public by (1) developing an experiential ground- Marginson stresses that researchers must level understanding of problems/issues, work with politicians to pursue empirical (2) publishing his work in a wide range investigations that not only challenge our of publications, including journals and values and beliefs, but also allow their work determining and to design equity-minded policies and procedures as the intellectual

> Christine A. Stanley calls upon the higher education communities to enact their diversity and social justice goals for disadvantaged groups in Chapter 6. Rather than pursuing individual intellectual interests, Stanley challenges researchers of all demographic backgrounds to engage in critical community-engaged scholarship and to be equalizers who advocate and inform change for the public good. From her research on the experiences of faculty of color in predominantly White institutions, Stanley argues that scholars must hold themselves accountable for inclusive excellence. She offers the late Maya Angelou as an example of a public intellectual who sought to critique systems of oppression and advocate for social change as a scholar. Stanley emphasizes that researchers have a moral obligation to use research for engaging with the community.

> faculty member, Ann E. Austin makes the case, in Chapter 7, for higher education informed research that advances the public good. Informed by her various roles and re-

Gary Rhoades further adds that communityengaged scholarship is necessary to fully engage nonacademic audiences (policymakers, administrators, practitioners) in public In Chapter 5, Simon Marginson provides a scholarship in Chapter 8. He asserts that nonacademics is vital to ensure that public gender, age, sexual orientation, religion, scholarship remains accessible to different generational status, socioeconomic status, audiences, in different contexts, and at dif- family income, marriage status, dependency ferent points in time. Because faculty mem- status, and/or place of residence. bers are pressured to publish in top-tier journals, Rhoades suggests that it is vital for us to rethink our work as scholar-experts to ensure that all people are included in the scholarship. He helpfully explains that "choosing how, why, and to whom we profess" is an important step toward negotiating "between the norms and forms of professional neutrality in . . . scholarly work and public scholarship" (p. 58).

In Chapter 9, Estela Mara Bensimon offers scholarship or public scholarship that can compelling evidence that higher education best combat the persisting inequities and researchers must create more powerful injustices within higher education systems tools "in order for inequity to be viewed as and structures. Although the book provides a contradiction to professional and institu- several great examples of why academic retional values" (p. 68). The author argues searchers should develop scholarly agendas that using theory-based tools, rather than that promote open pathways for equityreporting or measuring what is observed, minded policymaking, I believe the book can help scholars and practitioners shift falls short on how academic researchers their roles from being knowledge producers and practitioners can better connect their to consultants or facilitators of action when scholarship to the policymaking process in discussing topics like stereotypes, micro- higher education. aggressions, and racial biases. Bensimon encourages higher education researchers to utilize their knowledge as effective change agents to impact decisions and actions that can best facilitate racial equity in higher education.

The remaining chapters by Cheryl Crazy ties in higher education outcomes among Bull, Shaun R. Harper, Sara Goldrick-Rab, underrepresented college students (e.g., Danial G. Solorzano, William G. Tierney, low income, first generation, students of Adrianna Kezar, Adam Gamoran, Jeannie color, ethnic minorities). As evident from a Oakes, and Anthony A. Berryman share wide body of literature, scholars of higher themes that are similar to those of the first education policy have struggled to connect nine chapters, stressing that scholar-activ- and present findings to state and federal ism is risky and messy, but necessary to policymakers that address the knowledge ensure justice, fairness, equity, and respect needs of both parties (Hillman et al., 2015; in higher education. The authors pro- Perna, 2016a; Tandberg et al., 2018). These vide evidence that advocacy and academic struggles consist of challenges in language rigor are not mutually exclusive but may usage, method and methodology, and difinstead be intertwined or integrated into fering perspectives, as well as goals and higher education scholarship. In addition, timeframes (Perna, 2016b). As noted by the chapters express a strong belief that all the editor when she served as president scholars have an obligation to "ground . . . of the Association for the Study of Higher advocacy in research rather than opinion or Education, "Despite the important role that anecdote" (Perna, 2016a, p. 331). Although state policies can play in meeting the narisks are involved in pursuing advocacy tion's needs for increased educational opwork, the authors of this volume send a portunity, social mobility, and economic clear message that democracy is stronger growth, too little scholarship offers theowhen scholars and higher education prac- retically grounded and empirical examinatitioners include the voices of diverse people tions of the influence of state actions on in their studies (e.g., women faculty, non- these outcomes" (Flores et al., 2016, p. 1). traditional students, marginalized popula- Because policymakers often conceptualize

an inner dialogue between academics and tions) and take into account race/ethnicity,

The 17 contributors to this book share a collective vision that we as higher education researchers must have a moral and ethical obligation to use our privileged positions to engage in advocacy as proclamation and persuasion in order to connect research and policy in the era of posttruth and fake news. Perna provides evidence that academic researchers and policy leaders have the capacity to engage in critical community-engaged

I believe that the editor could have added more substantive content in the beginning or end of this book to articulate and frame the growing disconnect between policy and practice, and offered key recommendations designed specifically to address the inequi-

from academic researchers, the volume evant for teacher-scholars and policy would have been strengthened by the in- agents seeking to enhance communityclusion of an additional chapter that offered university partnerships between higher some sort of guidance on how researchers education research, advocacy, and policy. for framing and guiding policy alternatives. scholarly agendas that are problem-directed As academic researchers typically analyze rather than discipline-directed, with the what has occurred after the fact, making goal of addressing the knowledge-needs their political agendas by shaping public readers some hope that higher education policy (Flores et al., 2016). Because of their scholarship can be "taken to the streets" different approaches, I believe that this and used in policy-relevant ways that are book would have been more beneficial if instrumental, conceptual, and political to the editor had provided some real-world all constituencies (Flores et al., 2016). As examples of how and when scholars and stressed by Perna (2018), "merely conductadvocates can act assertively, based on the ing it [research] is not sufficient to create data available regarding a specific policy policy change. Advancing these goals also of their constituents.

research and policy in vastly different ways Nevertheless, this book is timely and relcan better advance their public policy agen- The book clearly calls upon higher educa-das to serve as the "intellectual backdrop" tion researchers and practitioners to develop their work largely reactive, policy leaders of policymakers and the policymaking tend to be proactive and seek to advance community. The reflective essays will give issue, and consistent with the preferences requires academic researchers to connect research and policy" (pp. 1–2).

About the Reviewer

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