

Fanshawe College FIRST: Fanshawe Innovation, Research, Scholarship, Teaching

Centre for Research and Innovation Publications

Magazines

2015

2015 Research & Innovation Day Program

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2015 RESEARCH & INNOVATION DAY



**RESEARCH &
INNOVATION DAY** 



AGENDA

10:00 a.m. - 12:00 p.m.

**Faculty Presentations in T Building Mezzanine
(2nd Floor, T Building)**

12:00 p.m. - 1 p.m.

**Keynote and Panel Discussion
Scotiabank Lecture Theatre, T1003**

1:00 p.m. - 3:30 p.m.

**Exhibition floor opens to public for viewing and
judging (1:30 p.m.) of student projects
James A. Colvin Atrium**

4:00 p.m. - 4:30 p.m.

**Presentation of Awards
James A. Colvin Atrium**

**STUDENT
RESEARCH
PROJECTS**

Social Innovation & Scholarship

1 APE (Abuse Prevention Education)

Researchers: Holly Morris, Brittany May, Samantha Germaniuk, John Paul Thomas, Fredy Rodriguez and Grace Merrifield

Evoking change within community agencies to promote best practice when providing abuse education to persons with developmental disabilities.

Supporter: Karen Klee

2 Palasad: to click or not to click? Best practices for AdWords advertising

Researchers: Shannon Cross, Rebecca Dyck, Emily Matlovich, Mitchell Naujokaitis and Kristen Vauthier

Optimizing Palasad's AdWords account in order to drive more conversions and to understand how to best use this information as a strategic advantage when creating new advertisements or implementing recommendations for new campaigns.

Supporters: Liz Gray and Sherry McEvoy

3 Instagram and Pinterest for B2B companies

Researchers: Colleen McTavish, Susan Snobelen, Amanda Borland and Alvan D'souza

Creating a connection between consumer-based social media platforms that will help to pull business into the company by generating awareness with the end consumer.

Supporters: Liz Gray and Sherry McEvoy

4 Raising brand awareness through Facebook and Google Adwords

Researchers: Sara Lindsay, Nick Broadley, Kalene Van Boven and Maggie Kozlowski

Discovering best strategies to generate digital traffic to enable Dunn Audiology to reach consumers, build relationships and turn new patients into loyal clients.

Supporters: Liz Gray and Sherry McEvoy

5 **Aboriginal content within the early childhood educator programs in Ontario**

Researchers: Sydnie Nauss

Exploring pre-service early childhood educators' education regarding Aboriginal children and families in early learning environments within the Ontario context by looking at pre-service early childhood educator training within four Ontario colleges.

Supporter: Celine Bourbonnais-MacDonald

6 **Exploring the educational philosophies of queer and transgender early childhood educators**

Researchers: Jesse Miller

Bridging the gap in knowledge about queer educators in early childhood education and informing the public on the value of diverse identities within the classroom.

Supporter: Jessica Phillips

7 **Mush**

Researchers: Lucas Morrish and Julie Marie Service

Consulting, designing and developing a comprehensive web application to meet all of the primary needs of a startup business.

Supporters: Robert Haaf, John Bennett and Natalia Aguillon

8 **Phyta**

Researchers: Lauren Marie Nicholson and Caitlyn O'Driscoll

Developing a rich-media web framework to improve client education and the learning experience within natural nutrition practices.

Supporters: Robert Haaf, John Bennett and Natalia Aguillon

9 **Play fighting and empathy**

Researcher: Alexander Ormsby

Developing a greater understanding of the implications of rough and tumble play on the development of children.

Supporter: Dr. Sandra Lackenbauer

10 Educators' attitudes on inclusive practices

Researcher: Jocelyn Van Herk

Establishing an understanding of the current status of educators' attitudes towards inclusive practices and through participation, an increased awareness of integrated programs.

Supporter: Dr. Sandra Lackenbauer

11 Stress and burnout prevention for emerging educators

Researcher: Tanya Naha

Investigating ways in which pre-service educators are supported with knowledge and skills regarding stress and burnout management for future utilization in the field.

Supporter: Dr. Farveh Ghafouri

12 Medical marijuana: beneficial or detrimental?

Researcher: Ronak Zareardalan

Evaluating the therapeutic and adverse effects of medical marijuana and how research and development in this area can boost the local economy.

Supporter: Dr. Jing Zhang

13 Angry children

Researcher: Hatty Verberne

Exploring and educating the public on the benefits of early childhood education curriculums that help children self-regulate to reduce aggression in adulthood.

Supporter: Penny Poole

14 Hammock Inc.

Researcher: Matthew Christie

Investigating the feasibility of a proposed business venture, Hammock Inc., a student rental platform focused specifically on aiding students in subletting their unused space during times of vacancy.

15 Protecting Ontario's ginseng crops

Researchers: Johanna Garzon and Linnea Smith

Identifying a biocontrol agent that will increase the yield and profitability of ginseng for Ontario ginseng farmers by inhibiting the root-rot fungus *Cylindrocarpon destructans*.

Supporters: Dr. Carol Hannam and Dr. Amy Turnbull

16 The role of hairy root cultures in herbal remedy production

Researchers: Teah Jazey and Ian Hoekstra

Inducing hairy root cultures in milk thistle, bean and carrot tissues, to produce valuable phytochemicals that can be used in the pharmaceutical and nutraceutical industries using *Agrobacterium rhizogenes*.

Supporter: Dr. Carol Hannam

17 The Time Traveller

Researchers: Christine Fandrich, Tyler Durand, Aimee Deluce, Colin Gatten, Ashley Taylor and Jerry Uzoma

Developing a web application that will allow tourists to participate in a self-guided tour of a city and gain a better understanding of the city's history.

Supporter: Tony Curcio

18 GamerLink

Researchers: Deion Farrington and Ryan Figueriedo

Connecting gamers based on similar playing style, skill level, location and a host of other factors in order to improve multiplayer gaming experiences.

19 Natural Prevention of Worldwide Loss of Corn using *Pseudomonas aeruginosa*

Researcher: Jasmine Therrien

Discovering a bacterium which can inhibit the growth of *Fusarium proliferatum*, which is responsible for significant yield loss in corn worldwide.

Supporters: Dr. George Lazarovits and Dr. Cheryl Ketola

20 Gasoline-eating microbugs

Researchers: Sarah Broadfoot & Cassandra Marks

Identifying locally-adapted strains of bacteria that can be used to clean up gasoline from contaminated soil and water.

Supporter: Dr. Carol Hannam

21 Sustainability Toolkit V.2

Researcher: Christopher Robins

Developing a prototype of a marketable version of the web-based sustainability toolkit framework developed by Tavares Group Consulting.

Supporters: Robert Haaf, Krista Pellow and Natalia Aguillon

22 Huron County Forester

Researchers: Amanda Piskorski, Ben Sandiford, Kyla Trac, Courtney Rayment and Mitchell Richardson

Developing and programming a mobile application and website for the public and foresters to use out in the field that will help identify different tree species.

Supporters: Huron County Planning and Development Office, Forester and the GIS Staff and Tony Curcio

23 Heritage London

Researchers: Alexander Howie, Mojgan Esfahaninejad, Catherine Lai, Tanweer Malik, Anand Singh and Dylan Wallace

Creating a web app to increase the accessibility of London heritage sites.

Supporters: Fanshawe College Geographic Information Systems and Tony Curcio

24 RezGuide

Researchers: Walter Gramajo, David Krent, Samuel Garcia and Ryan McHale

Developing a mobile application and web portal to improve communication and interaction between staff and residence students in college environments.

Supporters: Robert Haaf, John Bennett and Natalia Aguillon

Panel Discussion

AGENDA

11:45 a.m.

Arrival at Scotiabank Lecture Theatre, T1003

12:00 p.m.

Opening Remarks: Fanshawe Welcome

12:05 p.m. - 12:15 p.m.

**Keynote Address: The Honourable Ed Holder
Minister of State (Science and Technology)**

12:25 p.m.

Panel Discussion

London Deputy Mayor Paul Hubert

12:30 p.m.

Panel Discussion

**Glen Burston, Technical Operations Manager
Hudson Boat Works**

12:35 p.m.

Panel Discussion

**Kapil Lakhotia, President & CEO
London Economic Development Corporation**

12:50 p.m.

Audience Q&A

1:00 p.m.

Closing remarks and networking with students

Panel Discussion:

**The importance
of research and
innovation to
economic
development**

Featured Research Project

McCormick Day Program Garden

Effect of horticultural therapy on well-being among dementia care day program participants: A mixed-methods pilot study

Researchers:

Dr. Jodi Hall, Professor, Research Advisor, School of Nursing, Mary Wilk, RN GNC(C), BScN, MN, Professor, Program Coordinator, Personal Support Worker Program, School of Nursing, Gary Mitchell, Doctoral Researcher, School of Nursing and Midwifery, Queen's University Belfast, Belfast, Ireland Karen Johnson, MSW, RSW, Director, Alzheimer Outreach Services of McCormick Home, Catherine Webber, Research Assistant, Magdalen Carter, MSW, RSW, Director (retired) Alzheimer Outreach Services of McCormick Home

Purpose:

The purpose of this mixed methods pilot study was to examine if gardening and gardening related activities for a selected group of clients living with Alzheimer Disease and Related Dementias (ADRD) would result in a higher level of client engagement and better overall client satisfaction compared to traditional activities offered in day programming.

Methodology:

Purposive sample of 14 clients in the early stages of Alzheimer disease or related dementia and an expressed interest in gardening were recruited to participate in this pilot study.

A research assistant using a variety of methods collected multiple sources of data: mini-mental state examination (MMSE), observational data, dementia care mapping (DCM), and interviews. The RA collected observational data from the participants in the day program, family caregivers and staff, and invited participants in the day program, staff and family members to participate in interviews.

Outcome:

Clinical observations by multiple stakeholders (staff, researchers, volunteers, family members) supported the hypothesis that clients would show higher levels of engagement and increased positive affect during gardening activities when compared to levels of engagement and well-being scores in more traditional activities. The DCM has showed that horticultural therapy is consistently more engaging than other therapies. The themes of "teamwork" or "working alongside others" was particularly strong during gardening but not in others activities. Also the aspect of self-leading ones' activity was also worth noting (promotion of available independence) verses more traditional structured carer-led activities (i.e. music).

Observational Learning in paramedic student high fidelity simulation

Researchers: Carol Butler, Coordinator Simulation Lab, Gail Brown, Clinical Learning Laboratory Specialist, School of Health Sciences

Paramedic graduates are expected to be able to respond to any emergency when they attend a 911 call. Paramedic students traditionally have been prepared for their career in a practical lab setting through low fidelity simulation and in their field internship experiences. When students attend a real life emergency the reality of the situation can be overwhelming. High fidelity simulation brings reality to the practical lab and provides realistic scenarios such as simulating an emergency in a patient's home, vehicle, stairwell or an office setting. In these simulations students can reveal what they know without prompting, demonstrate assessment and communication skills, make mistakes without doing harm to themselves or others and learn from those mistakes. Students can complete an emergency call from start to finish from receiving the call, treating and stabilizing, to transporting the patient. This poster will describe the introduction of the observer role utilizing Bandura's observational learning construct in high fidelity simulation with paramedic students. Students observing the simulation were given a faculty developed worksheet with concepts linked to paramedic competencies. Each student was assigned specific concepts to observe and was responsible for providing feedback and facilitating discussion during the debriefing. Designing learning experiences for students in the observer role increased engagement in the simulation and active participation during debriefing improving the quality of the learning. Scenarios, observation sheets and evaluation of the simulation experience will also be shared.

Teaching, Learning, and Research Guide for Fanshawe Faculty

Researchers: Donna Sevenpifer, Liaison & Instruction Librarian, Library & Media Services

I have created an online Subject Guide to support Faculty. This guide will be accessible via the Library website. It is a collection of readings and resources, including direct links to articles and journals in the digital collection, related to teaching in higher education. Topics of interest include online learning, emerging technologies, evaluation and, of course, Faculty research. There is also the possibility of using this guide as a repository of published works by Fanshawe Faculty and as a tool to connect research mentors and mentees. This is a work in progress and I would like to reach out to Faculty for feedback on this guide.

International Field Experience as an Impetus for Personal and Professional Transformation: Through the Lens of Early Childhood Post-Secondary Students

Researchers: Tina Bonnett M.A., R.E.C.E., IMH Cert., Professor of Early Childhood Education, Human Services

Research exploring pre-service post-secondary students' experiences participating in an international field placement is a relatively new area of study in the domains of Early Childhood Education (ECE) and Early Childhood Leadership (ECL). While there is a growing body of literature offering merit to the profound transformations that can occur for students who engage in an international field experience, most notably in nursing and school-age teaching vocations, a significant research gap exists in this area of study within the early childhood field. This qualitative research study explores the international field experience of Canadian Early Childhood Education Diploma and Early Childhood Leadership Degree students who engaged in a four week placement to Liberia, Costa Rica in the winter of 2013. Applied thematic analysis was utilized to examine ECE and ECL self-reflective journals, interviews and email correspondences. Researcher field notes were additionally included in data analysis. Personal and professional transformations proved to be a prevailing outcome of the Costa Rica international field placement. The merit of a solidified international placement pedagogical approach was an additional finding of this research study. Key words: early childhood education, early childhood leadership, international placement, transformation, qualitative research. The corresponding research manuscript in press. Confirmation has been received that this research manuscript will be published in the Journal of Early Childhood Teacher Education in 2015.

Critical thinking in dental hygiene education: Examining student perception

Researchers: Helen Symons, Professor, Dental Hygiene Program, Dr. Leona English, Professor, Department Chair, Adult Education, St. Francis Xavier University

There is little debate that critical thinking goes hand-in-hand with basic knowledge in both adult education and professional education, including dental hygiene education. This research is designed to deepen understanding of dental hygiene students' perceptions and experiences of acquiring critical thinking skills in their professional education. A basic qualitative study was selected to start the discussion and data was gathered during a focus group followed by individual interviews. The sample comprised of seven recent graduates of the 2 year dental hygiene program at Fanshawe College. Inductive data analysis using an interpretive perspective was conducted to identify categories, patterns, and themes. Participants indicated their critical thinking began with acquiring base knowledge on theory related to the field of dental hygiene followed by developing a thought process using case scenarios with small group work and discussion. The clinical setting was noted as a real and challenging environment to apply critical thinking. Participants valued being offered a variety of activities aimed at developing their critical thinking. Many of the findings of this exploratory study align with research on developing critical thinking in adult education and professional education. This qualitative study provides beneficial preliminary information about how dental hygiene students learn critical thinking.

Giving Meaning to Departmental Metrics

Researchers: Karla Van Kessel, Senior Manager, Library & Media Services, Megan Anderson, Librarian; Assessment, Access, and Media, Library & Media Services

The current state of metrics within Library & Media Services (LMS) is an unwieldy assortment of data across four service points, each with varying methods of data collection and data reporting. There is currently no overarching purpose or meaning linked to the type of data/statistics captured. The first purpose of this research project is to align LMS metrics with the values, goals, and outcome statements of the College, ensuring the metrics we collect are worthwhile. We want to report on metrics which are meaningful not only to LMS but also to the broader College community. The second purpose of this project is to create a seamless system for data collection, including methods of recording, assessing, and reporting. To inform our decisions, we are conducting a comprehensive literature review to better understand existing practices for metrics within academic libraries. This project is still in process, however, we would like to get feedback and ideas from other areas regarding this work.

Online Student Engagement: Comparing Student Perceptions and Learning Management System Log Data

Researcher: Krista Vogt, Supervisor, Advising Centre, Office of the Registrar

In less than two decades learning management systems (LMS) have gone from being very rare to close to ubiquitous on Canadian college campuses. This wide-spread adoption of LMS technology has fundamentally changed the learning environment for today's college student yet there is a lack of research investigating how the learning environments created by the prevalent use of these systems could potentially be used as a measure of student. Institutions have invested heavily in the infrastructure, human resources and faculty training necessary to implement LMS, but the ability of these learning environments to improve student engagement has not been empirically demonstrated. Even more concerning is the fact that the collection and analysis of LMS data is starting to be used as an indicator of student engagement for institutional planning and accountability measurement purposes despite this lack of research correlating LMS usage data with other measures of student engagement. The purpose of this study is to determine if there is a correlation between students' perceived level of engagement in an online learning environment (LMS) and their online behaviour as measured by log data for various LMS activities.

Digital Technologies in Early Years: Syncing From Home to School

Researchers: Dr. Farveh Ghafouri & Dr. Sandra Lackenbauer, Professors, Bachelor of Early Childhood Leadership, Human Services, Tanya Naha, Sydney Nauss, Maureen Cullen, Kelsey Fischer, Alyssa Churchill, Student Research Assistants, Bachelor of Early Childhood Leadership

The present study investigated the digital lives of young children with the goal of considering and comparing educational frameworks' treatment of technology and children's use of digital technology in the home. This study consisted of two phases. Phase one involved a content analysis of the position of the Ontario Full Day Early learning -Kindergarten (FDELK) program (2011) and the Early Learning for Every Child Today (ELECT) framework (2007) in regards to digital technology. From this phase, it was learned that while the kindergarten program (FDELK) does emphasize technology for language learning, critical literacy, media literacy, and inquiry-based learning (primarily the communicative aspects of digital technology), other aspects were neglected (e.g., technology and play, children with special needs, technology and family/community interactions). The early years framework (ELECT), however, contained very few references to technology and those that were present were in the appendices rather than the document proper. Phase two involved surveying parents of young children (ages 0-6 years) regarding the out-of-school digital practices of their children and parents' attitudes regarding their child's use of technology. Analyses of this data is currently in progress.

Examining Practitioners' Assessments of Perceived Aesthetic and Diagnostic Quality of High kVp-Low mAs Pelvis, Chest, Skull, and Hand Phantom Radiographs

Researchers: Elizabeth Lorusso MRT MR, MRT R, B Sc., School of Health Sciences, Lyndsay Fitzgeorge, School of Health Sciences, Jenna Lorusso, PhD Student, UWO, Daniel Lorusso, PhD Student, UWO

This study investigated the utility of the dose optimization strategy of increased tube voltage (kVp) and decreased tube current-exposure time product (mAs) (or high kVp-low mAs) by examining practitioners' assessments of perceived aesthetic and diagnostic quality of direct digital radiographs acquired using this strategy. Ninety-one practitioners (radiologists, radiology residents, radiographers, and radiography students) from 8 clinical sites in Ontario examined 3 types of radiographs ('standard' image, +20 kVp image, +30 kVp image) for anthropomorphic pelvis, chest, skull, and hand phantoms and rated (on a five-point scale) each image in regards to its: (a) perceived aesthetic quality; (b) perceived diagnostic quality; and (c) visualization of anatomical structures. Our primary findings are that for the pelvis, skull, and hand, although not the chest, images acquired using standard technical factors were rated significantly higher in diagnostic and aesthetic quality than those acquired using the high kVp-low mAs strategy. Despite this, both standard and dose optimized images of the pelvis, skull, and hand were rated to be of acceptable diagnostic quality for clinical use. In conclusion, for the pelvis, skull, and hand, an increase of +20 kVp was an effective strategy to reduce dose while still acquiring images of diagnostic quality. Key words (alphabetical): Anthropomorphic phantom; Chest; Direct digital radiography; Dose optimization; Hand; High kVp-low mAs; Multiple anatomical areas; Practitioner assessments; Pelvis; Perceived diagnostic image quality; Perceived aesthetic image quality; Skull.

Robert Downey Jr. from Brat to Icon: Essays on the Film Career

Researchers: Erin E. MacDonald, Ph.D., Professor of English and Communications, School of Language and Liberal Studies

Robert Downey Jr. from Brat to Icon: Essays on the Film Career is a book published in Fall 2014 by McFarland, a reference book publishing company that specializes in academic studies of popular culture. The book was edited by Erin E. MacDonald, who also wrote the introduction, chronology, biography, filmography, and two chapters. Film, theatre, English, and comparative studies professors from all over the world contributed essays combining rigorous research, cultural and film theories, and a readable style to address the question: Why are Downey's films so popular? The book reaches the conclusion that the actor's unique, improvisational style, combined with the attraction of "star" appeal created by his survival story, combine to make his performances universally appealing.

RezGuide

Researchers: Natalia Aguillon, Applied Research and Media Technician and Part Time Professor, Interactive Media Design and Production, Robert Haaf, Professor, Program coordinator, Interactive Media Program Cluster, John Bennett, Professor, Interactive Media Design and Production & Interactive Media Specialist

RezGuide is a Web portal and mobile application designed to address some of the critical issues College students in Residence experience at the beginning of each academic year. It is designed to improve the interaction between residence staff and students, improving the student experience during their time at residence. Users create customized profiles in the Web portal, and have a variety of tools available: The application offers interactive, animated building/room direction guides to help students get to their correct classes on time, as well as locate other important College services. The app displays their class schedule and tie it to notifications and the interactive room direction guide. It has notifications and alerts that will announce them about upcoming classes and other important events/dates. The available features help students be more aware of their new scheduling and academic responsibilities, and offer communication and notification options consistent with their preferred communication channels.

Picking Up an Identity: A Postcolonial Reading of Nadine Gordimer's The Pickup

Researchers: Dr. Sam Roodi, School of Language and Liberal Studies, Masoud Farahmandfar, Student Researcher, Shahid Beheshti University, Tehran, Iran

This article is an attempt to examine Nadine Gordimer's, *The Pickup* (2001) using Homi K. Bhabha's ideas in the main. It takes upon itself to discuss the issues of hybridity, identity, nation, globalization and migration. Nadine Gordimer's *The Pickup* is a scrupulous study of the life in exile. We might dissociate this particular novel from her earlier work, in that it goes beyond the matters of local politics and nationhood and paints a truthful picture of migration and alienation, which are global issues. In fact, the subject Gordimer picks up is a universal topos (that of migration and identity in exile). We will focus on the idea that identity is liminal; it is neither one nor the other, but a negotiation of the both. The migrant/exile/diasporan has to translate differing cultures in order to survive.

Destruction of Landscape by the Forces of Commercial Industrialism

Researcher: Dr. Sam Roodi, School of Language and Liberal Studies

This study examines Maxwell Anderson's play *High Tor* that is an aesthetic engagement with nature and dramatizes Anderson's environmental sensibilities. The play is a satirical fantasy in verse loaded with allusions, symbolism and philosophical meditation, dramatizing the end of America's pioneering tradition. *High Tor* refers to a mountain overlooking the Hudson River, only a few miles away from Anderson's home in New City in the district of New York. The name derives from Celtic lore and means a sacred and holy place where people commune with the gods. The area where *High Tor* stands is steeped in history, legend and the supernatural. There are many accounts of ghosts haunting this historical mountain and the surrounding areas. In this play, Anderson makes use of the aura of mystery surrounding this region to dramatize the story of the protagonist, Van Dorn, and his struggle against the advancing forces of industrialism and materialism that threaten his independence and the pioneering values, pastoral tradition and the Arcadian beauty of the American wilderness.

A Business Case for Health and Safety

Researchers: Dr. Seyed Goosheh, Professor, Lawrence Kinlin School of Business, Peter Sturm, CHSC, CRSP, Canadian Society of Safety Engineers, Glen Worobets, Shell Canada Limited, Mona Khadelwal, Annette Woloszyn, Jennifer Stewart, Student Researchers, Lawrence Kinlin School of Business

As a part of a Health and Safety teaching module developed for Canadian undergraduate engineering students in Collaboration with CSSE and Shell Canada, this study rendered a business analysis of the Lac-Mégantic Derailment Accident. Seventeen pre- and post-operational factors contributing to this disaster and seven measures for mitigating them were identified and their implementation costs were estimated at \$3.7Million, which are about 0.5% of \$771Million estimated and accrued damages. These results suggest that with an average annual revenue of \$18.2Million and profit margin of 24.8%, the responsible shortline rail company would need to generate \$3.1Billion in revenue over an estimated period of 170 years to compensate for the damage. Estimated at 20% of annual revenue, the preventative measures would be covered in less than a year. Ratifying previous findings, this study shows it pays off to invest in preventative safety to ensure operational sustainability of private and public sectors, which can only be achieved through their collaboration. Further study is suggested to investigate how such sustainability can align with economic and business feasibility.

Expedited Arbitration: Is it Really Expeditious?

Researcher: Dr. Shannon Webb, Professor, Lawrence Kinlin School of Business

Labour arbitration continues to be a costly and time-consuming process in Canada. The results of a content analysis of Canadian labour arbitration decisions is presented. The study examines the difference in the timeliness and results of expedited and traditional arbitration cases.

Judges and Supporters

Pre-Selection Committee:

Steve Crema

Annette Markvoort

Janine Shier

Michelle Squire

Judges:

Applied Research

Kapil Lakhota, LEDC

Allyson Tighe, TechAlliance

Dr. Ben Cecil, Fanshawe College

Social Innovation and Scholarship

Kevin Cougler, Partners in Research

Gail Malcolm, Alumni Association

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Applied Research



Third Place
Social Innovation &
Scholarship



Third Place
Applied Research

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