2017 Research & Innovation Day Program

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Recommended Citation

Nesbitt, Mackenzie; Niesen, Hannah; Menegoni, Allison; Whitehead, Linda; Luck, Amy; Bandi, Reanna; Fajkovic, Amina; Sutherland, Robert; Sullivan, Kyle; Sutherland, Victoria; Veenliet, Scott G.; Lorn Jagoo Myles, Mackenzie; Fatima, Afrah; Anger, Michelle; Goniarski, Ursula; Hall, Cherie; Hatje-Moule, Kai; Moorehouse, Jillian; Hawkins, Nicole; Fekete, Anna; Squire, Jacob; Heil, Dalton; Jennings, Michael; Pepe, Kristina; Bourne, Angela; Howson, Mackenzie; Jeevanandam, Dinesh; Volkening, Martin; Steers, Bruce; Nicol, Robert; Tomaszewski, Leah; Challinor, Mark; Zhang, Michael; Girard, Pat; A&L Labs; Steers, Bruce; Gou, Xiaoming; Bailey, Kayla; Barbero, Emilio; Bouchard, Jessica; Hale, Karen; Wilkins, Jessica; Montgomery, Ruth; Henry, Madison; Lyons, Stacy; Hassan Agboke, Olaelekan; Woods, Chelsea; Youth Opportunities Unlimited; Sadler, Kate; Mastronardi, Meghan; Myers, Taylor; Richter, Allyson; Nagy, Victoria; Jones, Ian; Geary, Esden; Echlin, Melissa; Greene, Clay; Done, Steve; Wingelaar, Eric; Cluette, Charlene; Luksys, Denise; Mosley, Robert; Trigila, Megan; Astashkevskii, Viacheslav; Usiantcev, Nikolai; Mehta, Dhvani; Saini, Akshay; Cadotte, Kristin; Aquino, Gabriela; Palasad, kuhni, Nadia; Webber, Lindsey; Lindenmaier, Tamas J.; Lorusso, Elizabeth; Flook, Julia; Steary, Dugg; Brown, Julie; Ranieri, Lorie; Harrison, Helen; Mitchell, Amy; Imamibaccus, Firdaus; McCorquodale, Lisa; Thames Valley District School Board; Bedeir, Ruwan; Argueta Garcia, Arlynes; Bouvier, Nicholas; Stephen, Danielle; Burns, Paula; Singh Bhoday, Gurtej; Pathek, Chandan; Baker, Derek; Ghafouriansahraei, Seyedehshahrzad; Grehorini, Sara; Getty, Phylicia; O'Donnell, Kelsey;
Authors
RESEARCH & INNOVATION DAY

Tuesday, March 21, 2017
10 a.m. to 2 p.m.
James A. Colvin Atrium
SCHEDULE OF EVENTS

10:00 a.m. - 12:00 p.m.
Student Projects on Display in James A. Colvin Atrium

12:00 p.m. - 1:00 p.m.
GamerLink in James A. Colvin Atrium

1:00 p.m. - 2:00 p.m.
Presentation of Awards and Wrap up

STUDENT RESEARCH PROJECTS
1. Mackenzie Nesbitt, Hannah Niesen - DimensionArt Show and Sale in partnership with McCormick Home Day Program
Exploring the need for Dementia Services within the community and reacting to this through day programs, events, fundraisers and education.
Collaborators - Allison Menegoni, Linda Whitehead

2. Amy Luck, Reanna Bandi, Amina Fajkovic, Robert Sutherland, Kyle Sullivan, Victoria Sutherland - Narcissism and the Big-face Personality Traits
Investigating the impact of narcissism and how it relates to the five personality traits observed in people to improve diagnosis and treatment of Narcissistic Personality Disorder.
Collaborator - Dr. Scott G. Veenvliet

3. Mackenzie Lorn Jagoo Myles, Afrah Fatima - Halo Effect: Influence of physical attractiveness on judgments of others
Proving the existence and extent of the “Halo Effect” and its influences on our behaviour, judgment and assumptions.

4. Michelle Anger - Comparison of ADHD Medications
Comparing the effectiveness of different medications for ADHD and the implications on male youth aged 6-12 within the school setting who have been diagnosed with ADHD.
Collaborators - Ursula Goniarski, Cherie Hall

5. Kai Hatje-Moule, Jillian Moorhouse, Nicole Hawkins, Anna Fekete - The Influence of Misinformation on the Recall of Visual Information
Determining if giving subjects misleading information about a visual entity would hinder their ability to accurately recall the original visual entity.
Collaborator - Dr. Scott G. Veenvliet

6. Jacob Squire, Dalton Heil - Natural Aspirin Levels in Fruit
Optimizing a method for the determination of the amount of acetylsalicylic acid (aspirin) in various fruits by high performance liquid chromatography, and identifying a fruit with enough aspirin to reduce or alleviate the use of synthetic aspirin.
Collaborator - Dr. Michael Jennings

7. Kristina Pepe - Design of an environmentally sustainable library
Designing a LEED accredited academic library, located at Fanshawe College, that will further students’ knowledge of environmental sustainability in hopes that it will launch a broader community conversation about environmental issues.
Collaborator - Professor Angela Bourne, Mackenzie Howson

8. Dinesh Jeevanandam - GreenBug
Developing an efficient and effective design of an Archimedes Screw Generator for client GreenBug Energy with easily removable parts without using heavy equipment. The design should be relatively easy to change twice per year in order to maximize energy production year round.
Collaborators – Martin Volkening, Bruce Steers

Creating a fully integrated system with touchscreen operator interaction, that controls the motions of a robot to physically handle samples, obtain measurements, process data, and document results in a format that can be edited, and compatible with existing ALMS.
Collaborators - Michael Zhang, Pat Girard, Martin Volkening, A&L Labs, Bruce Steers, Xiaoming Guo

10. Kayla Bailey - Inclusivity: Sensitive design of retail environments
Encouraging the general public to adapt to the gender spectrum in design, especially in public spaces, and creating a basis for designing these spaces.
Collaborators - Angela Bourne, Emilio Barbero

Creating an overall more functional space that can adapt over time, that is flexible and offers more storage for its users.
Collaborators - Angela Bourne, Karen Hale
12. Jessica Wilkins - Millennial generation home-ownership: could lifestyle inform economical non-traditional residential design?
Achieving a nontraditional housing type to suit the millennial lifestyle and financial needs. This study will also be used as a tool of reference for future architects, builders and designers.
Collaborators - Angela Bourne, Ruth Montgomery

Making sense of the general phenomenon that is how child care directors demonstrate resiliency when serving vulnerable children and families.

14. Stacy Lyons, Olailekan Hassan Agboke, Chelsea Woods - Distraction Analysis of Device Use While Driving
Developing a better understanding of the levels of impairment drivers can experience while distracted, via different physical and cognitive distractions.
Collaborator - Dr. Scott G. Veenvliet

15. Kate Sadler, Jessica Bouchard - Youth Opportunity Unlimited - An Innovative Community Space
Designing an innovative building that helps break the stigma associated with homelessness. This building promotes community involvement, addresses the issue on hand, and provides a safe and secure space for at-risk youth. “Creating your community within the community.”
Collaborators - Youth Opportunities Unlimited, Meghan Mastronardi

16. Taylor Myers, Allyson Richter - Youth Opportunities Unlimited - New Community Centre Design
Creating a facility that functions well and benefits the lives of at-risk youth, ultimately leading to a reduction in the number of youth that are living on the street.

Developing an application that allows the average homeowner to calculate how much money they can make per year from installing a solar panel on their roof by selling excess energy back to the energy grid. We hope to promote green energy on the individual level and allow consumers to take advantage of provincial green energy programs.
Collaborator - Clay Greene

18. Kate Sadler - Breaking Mental Health Stigmas through the Built & Natural Environment
Designing an innovative acute mental health facility/wellness centre pilot that represents and reflects the research and evidence that surfaced during the study. This centre’s overall goal is to overcome the stigma surrounding mental health and provide an example of an alternative approach.
Collaborators - Angela Bourne, Steve Done, Eric Wingelaar
Charlene Cluette, Operations Manager – Canadian Mental Health Association Muskoka

19. Taylor Myers - Creating a Sense of Place in Student Residence
Creating an improved sense of place and overall wellbeing for first year students living in residence.
Collaborators - Angela Bourne, Denise Luksys

20. Robert Mosley, Megan Trigila - Effect of Preparedness on Change Blindness
Contributing to safe driving research and the development of driver aids that will reduce accident rates, and in turn fatality rates among drivers and pedestrians alike.
Collaborator - Dr. Scott G. Veenvliet

21. Viacheslav Astashevskii, Nikolai Ustiantcev, Dhvani Mehta, Akshay Saini - “Striking” it up with millennials
Identifying what promotions, message, and distribution channels will be most effective for reaching the millennial demographic for our client, Palasad.
Collaborators - Kristen Cadotte, Gabriela Aquino, Palasad
22. Allyson Richter - Collaborative Spaces as an Enabler to Place Attachment in Seniors Facilities
Finding a solution to improve quality of life for the aging population making the adjustment into seniors facilities with proper and useful collaborative environments that ensure place attachment and lead to overall wellbeing for the elderly population.
Collaborators - Nadia Kuhni (Design Matrix), Lindsey Webber

23. Tamas J. Lindenmaier - Does an E-learning Module Improve Health Sciences Students' Venipuncture Skills?
Providing insight on the use of an E-learning module in conjunction with traditional venipuncture teaching techniques. These results will be useful in designing a large-scale, controlled experiment to further test the efficacy of E-learning.
Collaborators - Elizabeth Lorusso, Julia Flook, Dugg Steary, Julie Brown, Lorie Ranieri, Helen Harrison, Amy Mitchell

24. Firdaus Imambaccus - Role of School in the Integration of Syrian refugee families in London
Understanding the different strategies and approaches adopted by schools that help integrate the Syrian refugee families within society, to be able to identify successful strategies and recommend improvements to the latter in hopes of a well-integrated Canadian society.
Collaborators - Lisa McCorquodale, Thames Valley District School Board

25. Ruwan Bedeir, Arlynes Argueta Garcia, Nicholas Bouvier - Are You Easily Disgusted?: Correlation of Disgust Sensitivity and Political Opinions
Examining the correlation between political affiliation and disgust sensitivity, where people who affiliate with the conservative party will be more easily disgusted than those who affiliate with the liberal party.
Collaborator - Dr. Scott G. Veenvliet

26. Danielle Stephen - Creating and Destigmatizing Mental Health Support Facilities for Youth
Designing an effective, adaptive reuse of an existing facility to provide increased mental health support to youth in the Perth County community.
Collaborators - Angela Bourne, Paula Burns

27. Gurtej Singh Bhoday, Chandan Pathak - Berry Juicer Design: Designing of juicer compartment for the extraction of juice from berries
Building a design to juice berries more efficiently when compared to current designs on the market. The design would be ergonomical and stable to handle to the batches efficiently which can be clubbed for a series of similar compartments.
Collaborators - School of Applied Science and Technology

Studying the correlation between grades for students in colleges and texting during class or while studying.
Collaborator - Dr. Scott G. Veenvliet

29. Robin Moffatt - PEAKprobio
Making the health benefits of fermenting with probiotic tibicos grains accessible for athletes, and to helping them maximize their engines, while satisfying their carbonated drink cravings.

30. Mary Chamberlain - Women in Non-Traditional Careers: An Exploration of Gender Socialization
Creating an awareness of gender discrimination and discussing solutions for women to encourage them to do what they love without social pressures.
Collaborator - Dr. Lisa McCorquodale

31. Lauren April Koza, Johann Tan Ting, Austin Mitchell - Heffernan's Hives: Web Development and Interactive Info-graphics for agricultural startup in London
Creating a professional website, with extensive improvements in design, UX/UI and interactive content, that will offer the client increased monetization opportunities.
Collaborators - Robert Haaf, John Bennett, Natalia Aguillon

32. Tandeep Sidhu - The Impact of the use of Community Policing
Improving the ability of police services in Canada to meet the needs of the diverse communities they serve. This project advocates for the continued use of community policing.
33. **Amanda Mercer, Alicia Bulhoes - Forest City Cakes: Web Site Planning, Design and Development for a London Small Business**

Creating a responsive website, with original design and UX/UI, that will in future offer the client increased exposure to grow their clientele and new monetization opportunities.

Collaborators - Robert Haaf, John Bennett, Natalia Aguillon

34. **Jimmy Ramirez, Sabrina Moreira Villela - Impact of Air-Entraining Admixtures on concrete**

Investigating the impact of the two air entraining chemicals on the compressive strength of concrete, and the fresh concrete properties such as workability (slump), entrained air content, and temperature.

Collaborators - Amneh Kalloush, P. Eng., Dr. Solomon Asantey, P. Eng.


Creating an enhanced Web tool, and the associated content management framework, that will offer the client the means to increase client engagement and monetization opportunities.

Collaborators - Robert Haaf, John Bennett, Natalia Aguillon

36. **Abby Stokes, Allison Mills, Vibha Venkatram, Andre Foreman, Conner Giroux - The Correlation Between Procrastination and Stress**

Identifying whether those who procrastinate can achieve the same success as those who took initiative, using an array of simple survey questions. Furthermore, we hope to understand whether school-related stress is an effect of poor grades or solely academic strain.

Collaborator - Dr. Scott G. Veenvliet

37. **Karissa Thornton, Kaitlyn Poirier, Kevin Bonden, Julia Van Damme, Morgan Wardell - Identifying Soil Bacteria Capable of Degrading a Common Herbicide Contaminant in Southwestern Ontario Drinking Water**

Isolating and identifying atrazine degrading bacteria using DNA sequencing to provide a basis for further engineering to remove atrazine from drinking water in Southwestern Ontario.

Collaborator - Dr. Amy Turnbull

38. **Russell Vey, Andrew Ross, Jesse Bourret-Gheysen, Colette Van Dyk, Julia Bowering - Synthetic Cannabinoid as Cancer Cell Therapeutic**

Investigating the therapeutic effect of synthetic cannabinoids on breast cancer cell lines and the possible mechanisms involved.

Collaborators - Dr. Jing Zhang, Dr. Cheryl Ketola

39. **Heather Gillespie, Andrea Mellon, Jude Silva - Can Caffeine make us faster?**

Identifying the impact of caffeine on reaction times and exploring if decaffeinated beverages can produce similar results.

Collaborator - Dr. Scott G. Veenvliet

40. **Krista Ly - LEADing the way in Early Childhood Education and Care through a Mentor/Protégé Program**

Using a qualitative case study to investigate elements that effectively influence meaningful mentor/protégé relationships in an early childhood care and education environment.

Collaborators - Tina Bonnett, Honour Bachelor of Early Childhood Leadership Degree Faculty, St. Thomas Early Learning Centre

41. **Brianne Englelder, Marcela Lievano, Jesse Milley, Zachary Klassen, Julia Jezic, Megan Ward, Huda Bander - Isolation of Novel Candidate Probiotic Strains**

Determining the effectiveness of novel candidate probiotic bacterial strains to inhibit the growth of a number of well-known human oral pathogens.

Collaborators - Ryan Chanyi (UWO/LHRI), Jeremy Burton (UWO/LHRI), Kris James (Fanshawe), Peter Cadieux (Fanshawe/UWO/LHRI), Natalya Yudina, CEO, Integra Medical

42. **Huda Bander, Jamie Louwagie, Jesse Milley, Marcela Lievano, Brianne Englelder, Megan Ward, Julia Jezic - Investigating the Canine Oral Microbiota**

Investigating the dominant cultivatable microflora of the oral cavity of local canines and assessing their ability to inhibit the growth of selected pathogenic microorganisms.

Collaborators - Ryan Chanyi (UWO/LHRI), Jeremy Burton (UWO/LHRI), Kris James (Fanshawe), Peter Cadieux (Fanshawe/UWO/LHRI), Natalya Yudina, CEO, Integra Medical
43. Jesse Milley, Zachary Klassen, Julia Jezic, Jamie Louwagie, Kaylen O’Rourke - Safety Profiling of Novel Probiotic Candidate Strains
Developing and refining safety profiling procedures to use in strain and product development and to identify novel strains with clinical potential for use in commercial products.
Collaborators - Ryan Chanyi (UWO/LHRI), Jeremy Burton (UWO/LHRI), Kris James (Fanshawe), Peter Cadieux (Fanshawe/UWO/LHRI), Natalya Yudina, CEO, Integra Medical

44. Kaylen O’Rourke, Jesse Milley, Julia Jezic, Zachary Klassen, Jamie Louwagie - The Current Use and Future Potential of Probiotics in Human Health
Studying and understanding the role of microorganisms in human health throughout the body to develop novel preventative and therapeutic-based products.
Collaborators - Ryan Chanyi (UWO/LHRI), Jeremy Burton (UWO/LHRI), Kris James (Fanshawe), Peter Cadieux (Fanshawe/UWO/LHRI), Natalya Yudina, CEO, Integra Medical

45. Haylee Siddall - A Fusion of Design, Construction, and Building Science
Creating a model/design solution for clients interested in sustainable practices and building science in residential design and renovations.
Collaborator - Angela Bourne

46. James Booth - Swing London
Creating a sustainable lindy hop scene in London, Ontario.
Collaborators - LEAP Junction, LondON Lindyhoppers, Swing London Inc.
GamerLink is a mobile application that allows gamers to connect for better online multiplayer experiences. GamerLink helps gamers to discover others to play with online, and overall improves a user’s gaming experience. This is achieved by connecting gamers of similar skill, playstyle, demographics and more.

An easy way to find gamers is finally here.

#1 UNIVERSAL LFG

[Apple iOS] [Android]
Title: Orange is the New Green

Researchers: Dr. Eli Paddle, Professor of Environmental Design and Planning, School of Design, Dr. Jason Gilliland, Associate Professor, Geography, Western University

Urban schoolyard environments are increasingly characterized by a proliferation of hard surfaces with little if any greenery. Schoolyard ‘greening’ initiatives are becoming increasingly popular; however, schoolyard designs often fail to realize their restorative potential. In this quasi-experimental study, a proposed schoolyard greening project was used to visualize alternative planting designs and seasonal tree foliage; these design alternatives were subsequently used as visual stimuli in a survey administered to children who will use the schoolyard to assess the perceived restorative capacity of different design features. The findings indicate that seasonal changes in tree foliage enhance the perceived restorative quality of schoolyard environments. Specifically, fall foliage colour when compared to green foliage, is rated as being perceived to be as equally restorative for children as green foliage. Additionally, seasonal planting, including evergreen conifers, may enhance the restorative quality of the schoolyard especially when deciduous trees are leafless. Landscape design professionals, community-based organizations, and other decision-makers in schoolyard greening efforts should strategically consider their tree choices to maximize year-round support for healthy attention functioning in children through restoration.

Title: Equal Opportunity Streets

Researchers: Dr. Eli Paddle, Professor of Environmental Design and Planning, School of Design, Dr. Jason Gilliland, Associate Professor, Geography, Western University

Given the previously established social, economic, and healthful benefits of nearby nature in local environments, we argue that the provision of publicly-funded street trees as a positive urban environmental exposure should be considered as an ‘environmental justice’ issue. Accordingly, the study examines the distribution of street trees within a ten minute walking radius around elementary schools in four communities of different sizes in Ontario, Canada to assess potential levels of ‘exposure’ to these positive natural features among school-age children of different socio-demographic backgrounds. A geographic information system incorporating detailed geo-databases of public trees and elementary schools in Stratford, Woodstock, Brantford and London were used to analyze the spatial distribution of trees in relation to the socio-economic characteristics of neighborhood walking zones around every elementary school. Our findings indicate that the spatial distribution of street trees in the immediate vicinity around the schools in the four Southwestern Ontario cities studied, closely mirrors the pattern of socio-economic distress in those same cites. The findings point to a greater need for municipal planners, policymakers and community-based organizations to carefully consider the socioeconomic characteristics of neighborhoods in order to ensure that future tree planting efforts are conducted in an equitable manner and targeted to the areas with the greatest need for the associated benefits they provide.
Title: Rail Derailments in Canada; a review of the effects of safety measures
Researcher: Seyed Goosheh, Professor, Lawrence Kinlin School of Business

A year after the Lac-Megantic derailment of 2013, the Transportation Safety Board of Canada released the results of its investigation identifying eighteen factors contributing to this tragic and costly disaster. In a funded research project conducted by this author in collaboration with CSSE and Minerva Safety Management, the costs of the ensuing damages were estimated and compared with the costs of potential prevention measures that could have been adopted. In a follow-up study presented during 2015 RID, the effects of four such measures were reviewed. This study looks at the effects of such measures by comparing the main-track derailments across Canada during the 2013-2014 period.

Title: Interprofessional Education of Magnetic Resonance Imaging and Massage Therapy Students
Researchers: Elizabeth Lorusso MRT MR, MRT R, B Sc., Professor, School of Health Sciences, Jennifer Patterson BA Kin, RMT, CAT (C) , Professor, School of Health Sciences

Our working lives may not be set in multi-professional environments, however we will both have constant interactions with patient/clients. The interactions we have with patients/clients will take different forms, but we both must foster one of collaboration with them. The term collaboration conveys the idea of sharing and implies collective action orientated toward a common goal, in the spirit of harmony and trust, particularly in the context of health care professionals. This Interprofessional initiative was designed to increase the knowledge we have about, to and from each other in an effort to increase confidence of patients in their health service providers.

Title: Canada 150 Environmental Design Charrette
Researchers: William Pol, MCIP, RPP Professor Bachelor of Environmental Design and Planning; GIS and Urban Planning, School of Design, Eli Paddle BFA, MLA, Phd Professor Environmental Design and Planning; Landscape Design, School of Design, Russell Schnurr, Coordinator GIS and Urban Planning, School of Design

Annually, for the past 10 years, students from GIS and Urban Planning and Landscape Design Programs complete an environmental redesign of a community project. This year’s site is Reginald Cooper Square and Victoria Park in London, chosen to celebrate Canada 150 themes of inclusion, belonging, reconciliation and connection. In seven days students complete inventory and analysis; ideation and visualization on three panels for a redesign for the site, out of regular classroom settings. The competition between 135 students on 12 teams is intense, creative, heartbreaking and moving. Group tensions arise through the design process; innovation is made applying new technology; and interpretation of themes brings to life new designs. Final presentations give full expression to our students’ talents and vision. Experiential learning occurs at many levels. Firstly, students from two different programs share knowledge and skill sets. Secondly, students, from first, second and third years share experience and leadership skills. Thirdly, faculty interact with students outside of the classroom through regular group meetings and in the lab. Finally, the community can experience inspirational designs that reinforce the Canada 150 themes. The design charrette is also research into the meaning of being Canadian; into the techniques to express design; and into group function. The design outcomes are also innovative, encouraging interpretation from different design perspectives using different techniques. Many graduates identify the charrette as their most memorable learning experience, opening the door to lifelong design opportunities. Faculty want to see the charrette evolve responding to changing technology, design problems and industry expectations. Our survey and interview research into the environmental design charrette with students, industry and employers will guide this evolution ensuring our graduates continue to exceed these expectations.
Title: Efficacy study of an interactive multi-media module to help students learn blood pressure (Praktik)

Researchers: Helen Harrison, Professor and Year 1 Coordinator, BScN program, Fanshawe site, Health Sciences and Human Services, School of Nursing, Natalia Aguillon, Project Manager, School of Contemporary Media, Robert Haaf, Professor, School of Contemporary Media

In a collaboration between the School of Contemporary Media and the School of Nursing/Health Sciences, a dedicated student/faculty team designed and developed an initial alpha prototype for an interactive module for students in various Nursing and Health Sciences programs that have coursework in measurement of vital signs. The module focuses on blood pressure (BP) testing processes, and offers students rich-media learning assets, interactive simulations of use of BP equipment and integrated self-evaluation modules for interpretation. An efficacy study was carried out, which focused on usage of the module for students in programs within the School of Nursing. Students were asked to complete a pre-and post-instruction survey to assess their confidence in assessing blood pressure, using a Likert scale based on that developed by Hicks (2009). Additionally, after they received instruction, participants in both groups answered multiple-choice questions to assess their knowledge, and psychomotor competence testing using a rubric similar to that used in their practical lab exams. Results from student groups having early access to the module will be compared to students without initial access.

Title: Increasing Objectivity in eResource Selection

Researchers: Megan Anderson, Research & Curriculum Librarian, Library and Media Services, Linda Crosby, Research & Curriculum Librarian, Library and Media Services

There are many factors that go into managing eResource collections. How do we ensure that rational, objective decisions are being made in an era of massive budget cuts and a sinking Canadian dollar? In order to ensure the same criteria was being applied across the board, the Librarians at Fanshawe College developed an eResource Selection Priority Matrix. This poster presentation discusses the creation process and implementation of this matrix, as well as lessons learned during the process.

Title: Maximizing Utilization of Resources: Shared Learning through Simulations with PN and PTN students

Researchers: Lorie Ranieri, Professor, School of Health Sciences & Human Services, Ronna Hoglund, Professor, School of Health Sciences & Human Services

Safe delivery of healthcare depends on the coordinated efforts of a variety of healthcare professionals. Realizing the importance of Interprofessional Education and the positive impact it has on students, faculty, and health practitioners is the first step in providing integrated, safe, and effective patient care. The goal was to provide students from the Practical Nursing (PN) and Pharmacy Technician (PTN) Programs an opportunity to interact, understand, and appreciate one another’s role before launching into their new careers. Interprofessional team working skills play a vital role in expanding expertise (Koskinen & Aijo, 2013). This poster will describe the experience of shared learning enhanced through the power of simulation and shared resources. The key learning objectives are to outline strategies on how to create Interprofessional collaboration in the college environment and how to use available resources for a new learning experience. The poster will also outline the students’ feedback on their perceived benefits of the experience.

Title: Establishing a Live Actor program for interpersonal skills simulation-a pilot project

Researchers: Carol Butler, Coordinator of Simulated Clinical Learning, School of Health Sciences and Human Services, Helen Harrison, Coordinator Fanshawe Western BScN Year 1, School of Nursing, Gail Brown, Clinical Learning Laboratory Specialist, School of Health Sciences

This pilot project to establish a live actor program was completed over an 18 month period in consultation and partnership with Ryerson University. Actors were hired and trained to play various roles in interpersonal communication scenarios. Students interacted with actors in real time in a safe classroom environment. Actors applied communication knowledge and skills learned in interactions and received feedback from actors, faculty and their peers. Live actor simulations were piloted with two groups of students; nursing and social work. The results suggested that the use of live actors in the classroom is an effective method for teaching and practicing therapeutic communication skills.
Title: Mind-wandering, anxiety and academic performance during narrated video lectures
Researcher: Dr. Michael J. Boisvert, Professor, School of Language & Liberal Studies

Although mind-wandering (MW) is a normal aspect of human consciousness, it is of some concern in the context of education: MW during lessons is associated with reduced note-taking, reduced reading comprehension and lower retention of information. Recent evidence, however, suggests that quizzing students on material as they learn it reduces MW, increases note-taking and improves scores on a final test of the material (Szpunar et al., 2013). Most research on MW has focused on the university student population. The community college student population likely represents a broader range of academic preparation; measuring MW and its links with academic success is thus an important practical concern. The present study examined the influence of quizzing on MW, anxiety, note-taking and academic performance, over several lessons (narrated PowerPoint presentations) in a classroom environment. Across all lessons, between 44-82% of students reported MW. Quizzing was associated with reduced MW, but had no consistent effects on students’ anxiety, note-taking, or test performance.

Title: Non-Family Caregiver Perspectives on Current and Future Alzheimer’s Care Facilities in London, Ontario
Researcher: Natalie Rowe, Professor, Honors Bachelor of Interior Design, MID, BID, NCIDQ, Faculty of Arts, Media and Design

Special Thanks to: McCormick Dementia Research, Steve Crawford, CEO

Non-family caregivers are healthcare professionals who work with individuals who have Alzheimer’s disease (AD). Focusing on non-family caregiver perspectives, provides an opportunity to research ways they perform their jobs and interact with residents in the built environment in London, Ontario. Non-family caregivers’ knowledge and experience with spatial advantages and disadvantages provides important information that could be used in the design of future AD care facilities. Unfortunately, there appears to only be a small number of peer reviewed publications about interior design research focusing specifically on design for AD. The literature is limited on the topic of non-family caregivers and how their knowledge and experience may contribute to the design process and impact the outcome of the built environment. In order to respond to these challenges, interior designers should give consideration to the benefits associated with engaging the input of those who work closely with individuals in AD care environments.