



RESEARCH DAY 2019

ADVANCING INNOVATION AND ENTREPRENEURSHIP

THURSDAY, APRIL 11 | OSHAWA CAMPUS
CENTRE FOR COLLABORATIVE EDUCATION (CFCE)

JOIN THE CONVERSATION #DCResearchDay

TIME	SESSION	ROOM	SPEAKERS
8 a.m.	Registration and breakfast	CFCE Atrium	
	Student Project and Venture Showcase This year's student showcase will feature outstanding student capstone projects, completed applied research projects, and successful student entrepreneurs. Exhibits will be displayed throughout the CFCE and the Gordon Willey building. After registering, please enjoy some breakfast and visit the student exhibits!	Please refer to page 8 for more details.	
9 a.m.	Welcome	Global Classroom, CFCE 145	Don Lovisa, president, Durham College (DC)
9:05 a.m.	Opening remarks		Debbie McKee Demczyk, dean, Office of Research Services, Innovation and Entrepreneurship (ORSIE), DC
9:15 a.m.	Keynote address: How technology is changing the future workforce What do young professionals in technology, entrepreneurship and policy need to consider carefully in light of some of the remarkable information and knowledge-related changes in regards to their professional and personal decisions? This keynote presentation will discuss how technology is changing the human environment and where start-ups may be making an impact in changing the future workforce.		Prashant Pathak, CEO Ekagrata Inc. Joining in the conversation will be representatives from various Caribbean countries.
9:45 a.m.	Networking break and refreshments Student Project and Venture Showcase (continues)	Please refer to page 8 for more details.	

CONCURRENT BREAKOUT SESSION 1

TIME	STREAM	DESCRIPTION	ROOM	SPEAKERS
10:15 a.m.	Faculty stream	Bet you didn't know you're doing research now DC faculty, please join the research coordinators in a discussion about applied research. Learn more about: 1. All the activities that encompass research. 2. How you can build on what you are doing now. 3. Involving students. 4. Securing funding. 5. Allocating your time.	CFCE 118	Dr. Michael Williams-Bell, professor and researcher, School of Health & Community Services, DC Linda Cheng, professor and researcher, School of Media, Art & Design, DC Wendy Smith, professor and researcher, Centre for Food, DC Phil Jarvis, professor and researcher, School of Science & Engineering Technology, DC David Smith, professor and researcher, School of Interdisciplinary Studies, DC Vlad Chiriac, professor and researcher, School of Justice & Emergency Services, DC Danny Aniag, professor, School of Business, IT & Management (BITM), and researcher with DC's AI Hub
	Student stream	AI FastStart Challenge The AI FastStart Challenge is a culmination of student work designed to highlight the application of artificial intelligence (AI) in new and innovative business applications. DC student entrepreneurs who have reached the finals of this year's challenge will pitch their ideas before a panel of expert judges and compete for cash prizes and support from the FastStart team. Winners will be announced during the final session of the day.	CFCE 117	Lindsey Jeremiah, entrepreneurship coordinator, FastStart, ORSIE Jay Fisher, professor, Entrepreneurship and Small Business, BITM, DC Judges: Brent Lessard, co-founder and project manager, rLoop Inc. Kalyan Chakravarthy, chief information officer, Regional Municipality of Durham, Corporate Services - Information Technology Jason Wight, director of engineering and founder, X-Lab, Ontario Power Generation
	Industry stream	Smart parking management system using AI Attend this session to learn about an AI-empowered conversational chatbot that was developed through a distributed network system for remote locations. Along with completing real-time data analysis, this collaborative applied research project, funded by the Ontario Centres of Excellence, will enhance forecast modelling through continuously improving predictive algorithms.	Global Classroom, CFCE 145	Joe Ritcaca, director, Research and Development, Precise ParkLink Justin Waltenbury, junior software engineer, Research and Development, Precise ParkLink Amit Maraj, professor and researcher, BITM, DC Clint MacDonald, researcher, ORSIE, DC Steve Bakos, third-year Computer Programmer Analyst student, DC Jeremy Power, third-year Computer Programmer Analyst student, DC Qasim Iqbal, third-year Computer Programmer Analyst student, DC Neil Gasper, third-year Computer Programmer Analyst student, DC Raman Deep Rathor, second-year Computer Programmer Analyst student, DC

CONCURRENT BREAKOUT SESSION 2

TIME	STREAM	DESCRIPTION	ROOM	SPEAKERS
10:45 a.m.	Faculty stream	<p>Co-creating a new model of support for youth living on their own in Durham: project, progress and preliminary findings</p> <p>In 2018, DC was awarded \$240,000 over two years from NSERC's Community College Social Innovation Fund. This funding supports the ongoing collaborative work of a group of community partners to explore how to best support Trusted Youth in Durham Region and ultimately discover best practices in the prevention of youth poverty and homelessness.</p>	CFCE 118	<p>Lorraine Closs, professor and researcher, HCS, DC</p> <p>Doreen Hume McKenna, regional housing coordinator, Durham Mental Health Services</p> <p>Nora Landry, policy advisor, Department of Social Services, Regional Municipality of Durham</p> <p>Dani Coffey, policy analyst, Business Affairs and Financial Management, Regional Municipality of Durham</p> <p>Daniel Forsythe, second-year Social Services Worker student, DC</p>
	Student stream	<p>Food Foundry Entrepreneurship Challenge</p> <p>FastStart's Food Foundry is a new food-business incubator designed for DC students. In the first year of operation, the goal of the Food Foundry was to provide opportunity for students enrolled in food-related programs to create, commercialize and launch food businesses before graduating, with a culminating showcase and contest at Research Day, where the taste-testing happens and the best overall business concept receives a prize!</p>	CFCE 117	<p>Lindsey Jeremiah, entrepreneurship coordinator, FastStart, ORSIE, DC</p> <p>Jay Fisher, professor, Entrepreneurship and Small Business, BITM, DC</p> <p>Judges:</p> <p>Chef Peter Lee, Bistro '67, DC</p> <p>Ryan Cullen, field supervisor, W. Galen Weston Centre For Food (CFF), FastStart DC alumnus and founder, City of Greens</p> <p>Kelly O'Brien, manager of operations, CFF, DC</p>
	Industry stream	<p>3D-enabled mobile visualization tool</p> <p>SMP Canada Inc. is a medical equipment manufacturer specializing in medical architectural solutions, with its key product being headwall systems. With the support of NSERC funding, DC is collaborating with the company to develop a custom headwall generator application with embedded augmented reality. Using a web application interface, the company will be able to provide its clients the ability to customize their headwalls independently and submit them to the production team for a final quote.</p>	Global Classroom, CFCE 145	<p>Atif Hasan, director of sales, SMP Canada Inc.</p> <p>Clint MacDonald, researcher, ORSIE, DC</p> <p>Timothy Gerard, third-year Mechanical Engineering Technology student, DC</p> <p>Erik Kostashuk, third-year Computer Programmer Analyst student, DC</p> <p>Sonali Rane, first-year Project Management student, DC</p> <p>Flavia Barros, first-year Digital Production - Animation student, DC</p>
11:15 a.m.	Networking break		CFCE Atrium	

CONCURRENT BREAKOUT SESSION 3

TIME	STREAM	DESCRIPTION	ROOM	SPEAKERS
11:30 a.m.	Faculty stream	Internally funded research (Please note: this is a double-length session that will run until 12:30 p.m.) In this session, researchers will provide an overview of three projects funded through the 2018-2019 Internal Research Fund. This fund is seed funding to facilitate the development of innovative research projects that support the research interests of faculty and staff and assist them in their scholarly work. <i>The featured projects are as follows:</i>	CFCE 118	
		Enriching pre-fire education for personalized, precision skill and resilience training This project integrates real-time data streaming and enriched data analytics of pre-fire education students performing in an Environmental Stress Workshop. This project studied whether physiological measurements captured during a heat stress scenario can be integrated into a real-time data streaming and data analytics platform to provide students with individualized feedback		Dr. Michael Williams-Bell, professor and researcher, HCS, DC Andrew Mayne, professor and researcher, BITM, DC Noel Francis, Fitness and Health Promotion graduate and first-year Bachelor of Health Care Technology Management student, DC Shreeji Patel, third-year Computer Programmer Analyst student, DC
		The Canadian best practice OTA and PTA preceptor training program This project developed an online training module for Occupational Therapist Assistant and Physiotherapist Assistant (OTA and PTA) educators to ensure there is a consistent, sustainable method of training preceptors on national competencies and best practices. This module allows for preceptors to better facilitate learning and students' success in the clinical setting.		Teresa Avvampato, professor and researcher, HCS, DC Laura Maybury, professor and researcher, HCS, DC Kurt Graham, third-year Marketing – Business Administration student, DC
		Ontario colleges and student mental health: a search of recent academic research This project involved training students to investigate various databases to determine the current state of academic knowledge and best practices on student mental health challenges. Students gained valuable academic journal search and research methodology experience.		David Smith, professor and researcher, IS, DC Nathalie Zhou, librarian, DC
	Student stream	3MARC Challenge 3MARC is a three-minute applied research communication challenge in which students engaged in applied research will compete by presenting a compelling oration of their research work. Students will consolidate their ideas and research outcomes concisely for a non-specialist audience, profiling and celebrating their creative and innovative applied research. A panel of judges will select three winners, who will be announced during the final session of the day.	CFCE 117	Ali Hirji, project manager, AI Hub, ORSIE, DC Musab Nazir, second-year Computer Programmer Analyst student, DC Raman Deep Rathor, second-year Computer Programmer Analyst student, DC Sonakshi Karkera, Data Analytics for Business Decision Making student, DC Kevin Astilla, second-year Computer Programmer Analyst student, DC Soban Farhan, second-year Computer Programmer Analyst student, DC Judges: Joe Velacich, vice-president, Compute Absar Beg, CEO, Lifelong Group of Companies Daryl Thomas, CEO, People and Places Inc.

CONCURRENT BREAKOUT SESSION 3 (Continued)

TIME	STREAM	DESCRIPTION	ROOM	SPEAKERS
11:30 a.m.	Industry stream	Tether™ AI and automation MobileXCo is focused on measuring marketing performance and analytics from promotion-based marketing, contests, gift-with-purchase, coupons and surveys, delivering real-time performance data, insights and analytics to their consumer packaged goods and retail clients. This session will explore MobileXCo's current NSERC-funded project involving a system that utilizes AI, machine learning and optical character recognition to implement a comprehensive analytics and strategic insights-based marketing automation and consumer engagement platform.	Global Classroom, CFCE 145	Andy Bruce, CEO, MobileXCo Kyle George, product manager, MobileXCo Joey Lees, researcher, ORSIE, DC Kevin Astilla, second-year Computer Programmer Analyst student, DC Musab Nazir, second-year Computer Programmer student, DC

CONCURRENT BREAKOUT SESSION 4

TIME	STREAM	DESCRIPTION	ROOM	SPEAKERS
Noon	Faculty stream	Internally funded research – (continued) See above.	CFCE 118	See above.
	Student stream	Your next job in AI There is a shortage of AI talent in the market and AI skills are in strong demand. How should you prepare for this market and what skills should you focus on as a student? This session covers a variety of skills you should gather in your AI learnings and shares perspectives from projects at DC's AI Hub.	CFCE 117	Ali Hirji, project manager, AI Hub, ORSIE, DC Ruchie Raj Kumar, project coordinator, AI Hub, ORSIE, DC Mauricio Alejandro Cuellar Cabrera, third-year Public Relations student, DC
	Industry stream	Ontario hops terroir project Hops impart specific flavour and aroma to craft beers and are increasingly becoming a point of competitive differentiation in the craft beer industry. The Ontario Craft Brewers Association and Ontario Hops Growers Association are collaborating with DC to develop an understanding of Ontario hops terroir and the unique taste profiles of local hops. Dissemination of the findings of this study is expected to assist brewers in modifying recipes to create truly distinctive beers with local appeal and increase the market share of Ontario-grown hops.	Global Classroom, CFCE 145	Dirk Bendiak, researcher, DC, and technical advisor, Ontario Craft Brewers Association Don Wilford, project contact, Ontario Hops Growers Association

AWARDS AND CLOSING REMARKS

TIME	DESCRIPTION	ROOM	SPEAKERS
12:35 p.m.	Awards and closing remarks During the final session of the day, student winners of the AI FastStart Challenge and the 3MARC Challenge will be announced. As critical members of the research community, Research Ethics Board members, research coordinators and this year's active researchers will also be recognized and their work acknowledged. Finally, ORSIE will reveal the winner of this year's Researcher Award of Excellence, a DC faculty member who has demonstrated exemplary work over the past year to advance the culture of research.	Global Classroom, CFCE 145	Dr. Elaine Popp, vice-president, Academic, DC Debbie McKee Demczyk, dean, ORSIE, DC
12:45 p.m.	Adjourn		



PRASHANT PATHAK

CHIEF EXECUTIVE OFFICER

Ekagrata Inc.

Mr. Prashant Pathak is CEO of Ekagrata Inc. a business building oriented principal investment company and a Principal of In Colour Capital Inc. Outside of Canada and US he has significant international experience in, and exposure to issues in Asia, South America and Eastern Europe. He serves on Board of several public and community institutions. He has been an appointee of Government of Canada on the Board of BDC for nearly a decade (Business Development Bank of Canada, a \$25 Billion institution).

Previously, Mr. Pathak has been a Partner of McKinsey & Company Inc. where he was a leader of the North American Telecom Practice, the Financial Services Practices and a leader in the Strategy & Corporate Finance Practice. Mr. Pathak has extensive international experience and built strong trusted relationships with several corporations, conglomerates and family holding companies from his work in Europe, Middle East Asia, and South East Asia. In addition to operations, he has experience in leading product and technology platform development.

He was recognized as Canada's Top 40 Under 40™ for exceptional achievement across five dimensions - vision and leadership; innovation and achievement; impact; growth and development strategy; community involvement and contribution - and the capacity to encourage and foster growth. He is an inductee to the "30 most influential Indo-Canadians Power List" of Rediff's India Abroad (2009), adjudged South Asian Professional of the Year 2010 by MidWeek Magazine, and amongst 100 Most Influential Global Indians by Diaspora World in 2014.

STUDENT PROJECT AND VENTURE SHOWCASE DETAILS

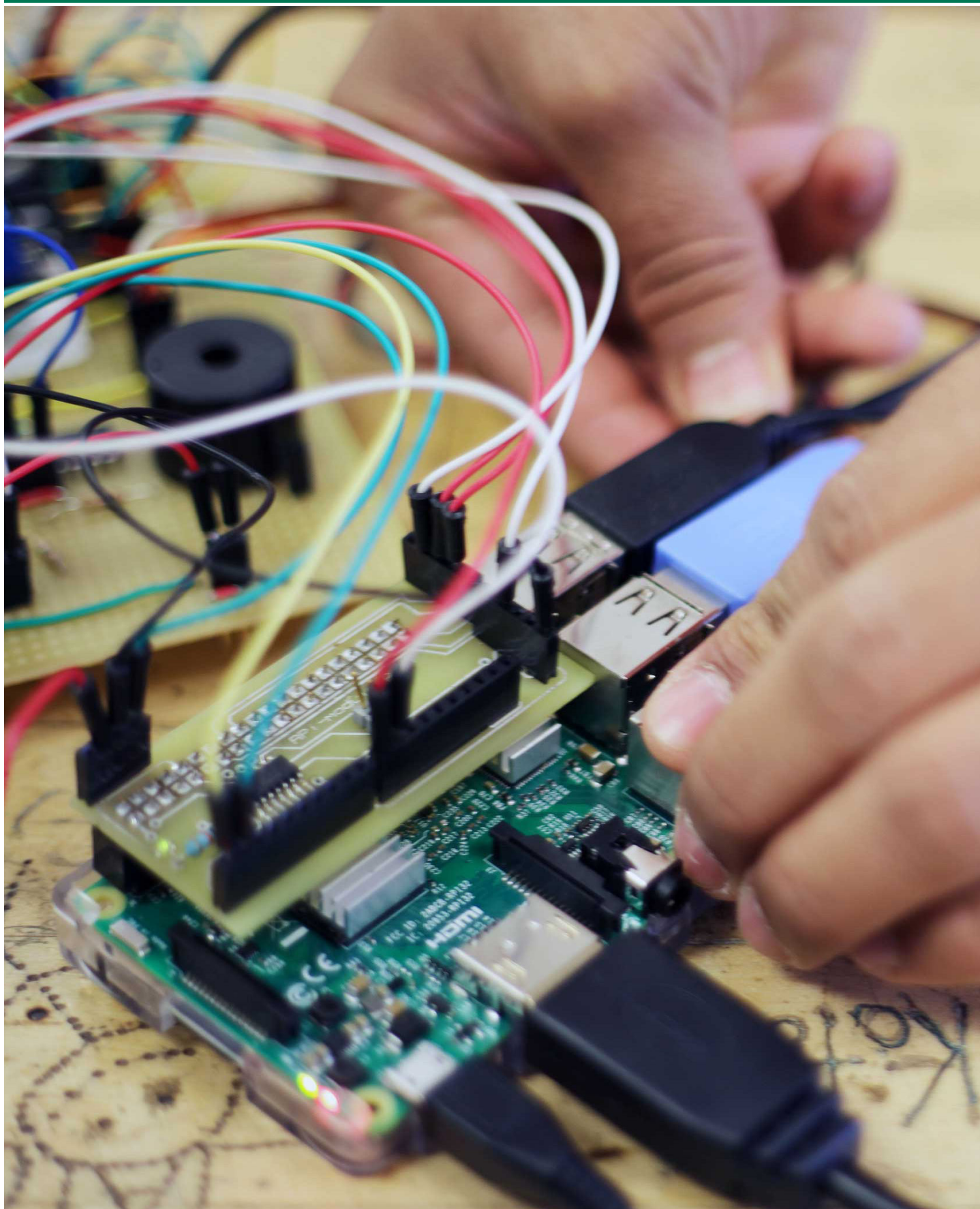




EXHIBIT 01

College student study habits: patterns and implications

GENERAL ARTS AND SCIENCE – LIBERAL ARTS UOIT TRANSFER - FORENSIC

Presenters: **Iain Weber**

Lead professor: **Lynne Kennette**

This research project describes the study behaviours of college students and compares them to university students (Gurung, Weidert, & Jeske, 2010). Results show that the sample used elaborative study habits but were weak in their use of metacognitive skills.

EXHIBIT 02

Heated and humidified oxygen treatment for hypothermic patients in the pre-hospital setting: opinions of Ontario-based hospitals - a work in progress

PARAMEDIC

Presenters: **Cameron Hodgson**

Lead professor: **Vlad Chiriac**

This poster presents Cameron's story from Paramedic student to Paramedic student interested in researching at Durham College. Since his project is a work in progress, the poster presents Cameron's idea, updates on the project status and lessons learned so far.



EXHIBIT 03

Grass Rüts Zenergy Bites

HORTICULTURE - FOOD AND FARMING

Presenters: **Alexandra Gillis, Jennifer Butt**

Lead professor: **Wendy Smith**

Zenergy Bites are a portable, nutritious and delicious low-sugar snack naturally sweetened with yacón syrup and designed to give you continuous energy without the crash. Perfect for pre- and post-workout, travelling, school, work – whenever and wherever you need a lift.

EXHIBIT 04

VinnArt

HORTICULTURE - FOOD AND FARMING

Presenters: **Brad Abel, Patricia Revita, Ibing Maharlika**

Lead professor: **Wendy Smith**

A vinegar produced from hemp seed.

EXHIBIT 05

Canadian Eh Cider... "Grade Eh! Canadian Cider"

HORTICULTURE - FOOD AND FARMING

Presenters: **Christopher Hart, Sean Ellis**

Lead professor: **Wendy Smith**

Canadian Eh cider offers a unique and well-balanced flavour blend of pear and apple that will excite the taste buds while leaving you wanting more. Be invited by our premium product while allowing us to bring this countryside taste to your home.



EXHIBIT 06

Pickled Microgreens – Pea and Sunflower Shoots

HORTICULTURE - FOOD AND FARMING

Presenters: **Daniel Morse, Aysha Naureen**
Lead professor: **Wendy Smith**

An exhibit of both fresh and pickled sunflower and pea shoots presented in several exciting flavours.

EXHIBIT 07

Vegan Meat Burger

HORTICULTURE - FOOD AND FARMING

Presenters: **Navdeep Dhillon, Manpreet Singh Kaura**
Lead professor: **Wendy Smith**

Vegan burger made with high-quality, hand-picked ingredients with the same mouth-watering taste as a chicken burger.

EXHIBIT 08

Vegan Lemon Loaf

HORTICULTURE - FOOD AND FARMING

Presenters: **Brooklyn Van Renselaar, Kasi Post**
Lead professor: **Wendy Smith**

A soft, fluffy, moist vegan lemon loaf with blueberries. Drenched on top with a sweet light-purple-coloured glaze with hints of lemon zest and lavender. Beautifully garnished with dried flowers on top and packaged in mini loaves as an easy on-the-go snack.



EXHIBIT 09

Venison jerky with unique and traditional flavours

HORTICULTURE - FOOD AND FARMING

Presenters: **Alice Gunner, Michael McIntosh**
Lead professor: **Wendy Smith**

Change up your snack game! Visit our booth to sample venison jerky in a wide variety of flavours. There is something to please everyone.

EXHIBIT 10

Pop Kefir Soda

HORTICULTURE - FOOD AND FARMING

Presenters: **Mahmoud El Maaraoui, Terran Vaivars-Szwarc, Jeffery Kovacevich**
Lead professor: **Wendy Smith**

Kefir is an effervescent fruity drink packed with trillions of healthy probiotics. It's a living product that your body will love. Traditionally fermented to provide you with digestive enzymes, pre-digested nutrients, amino acids, vitamins and minerals.

EXHIBIT 11

Sourdough on the Rise

HORTICULTURE - FOOD AND FARMING

Presenters: **Hayley Fisher, Dion Gekopoulos**
Lead professor: **Wendy Smith**

Providing the home-baker with dry and live sourdough culture kits to bring a rise to bread and gut health.

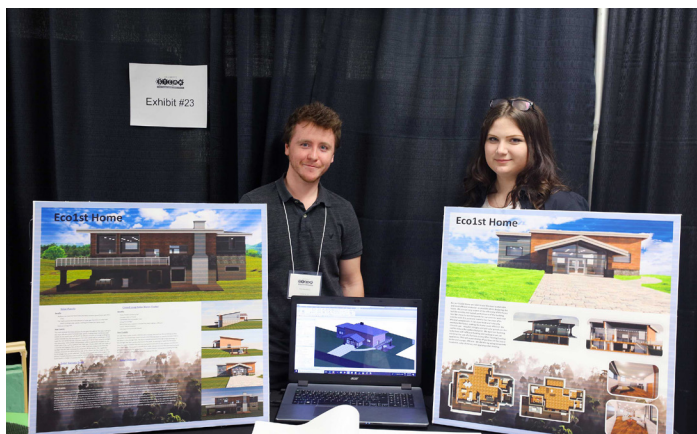


EXHIBIT 12

NutriNoodles

PHARMACEUTICAL AND FOOD SCIENCE TECHNOLOGY

Presenters: **Hailey Orosz, Tiffany Pitre, Samantha Rushton, Kandra Cole, Amanda John**

Lead professor: **Iraj Mehrnia**

A low-carb pasta made with almond flour, NutriNoodles includes two veggie noodles in one package (spinach, beet and regular).



EXHIBIT 15

Veggie Protein Bar

PHARMACEUTICAL AND FOOD SCIENCE TECHNOLOGY

Presenters: **Akash, Niyati, Christin, Hajera, Sanna, Reshmi, Adil, Manpreet**

Lead professor: **Iraj Mehrnia**

A bar high in vegetarian protein that is also gluten-free.

EXHIBIT 13

Crunch-Creamy Wafer Rolls

PHARMACEUTICAL AND FOOD SCIENCE TECHNOLOGY

Presenters: **Vikas Gupta, Akshay Juneja, Jashandeep Kaur, Arpita, Ilda Iaho, Kirti**

Lead professor: **Iraj Mehrnia**

This chocolate-flavoured product is enriched with high fibre and a sweet taste. It comes in rolls and is a healthy snack for all consumers, including diabetics and athletes in particular.

EXHIBIT 16

Cho-cocoa

PHARMACEUTICAL AND FOOD SCIENCE TECHNOLOGY

Presenters: **Kyle Agmata, Amel Ahmed, Dmitriy Suzdaleu, Sheldon Thomas, Simeon Uwagbale, Vivien Wang**

Lead professor: **Iraj Mehrnia**

A twist on a better, guilt-free chocolate. This chocolate contains omega-3 in an enjoyable way.

EXHIBIT 14

Savouresso – Flavouring Tablets

PHARMACEUTICAL AND FOOD SCIENCE TECHNOLOGY

Presenters: **Adam Monast, Sinthujah Paskaran, Mike Vanhuele, Spencer Murphy, Maharshi Desai, Jaymer Viola**

Lead professor: **Iraj Mehrnia**

Convenient naturally flavoured coffee/beverage flavouring tablets that dissolve rapidly, contain no sugar and have added vitamins and minerals.

EXHIBIT 17

Frnds Chickpea Cookies

PHARMACEUTICAL AND FOOD SCIENCE TECHNOLOGY

Presenters: **Kiranjit Kaur, Manpreet Kaur, Vikramjit Singh, Manpreet Kaur, Arshpreet Singh Grewal**

Lead professor: **Iraj Mehrnia**

Frnds chickpea cookies are made with fibre-rich chickpea flour which is very beneficial for your health.



EXHIBIT 18

Beetroot Tofu Nuggets

PHARMACEUTICAL AND FOOD SCIENCE TECHNOLOGY

Presenters: Neha, Ankita Khodiyar, Kulwinder Kaur
Lead professor: Iraj Mehrnia

Made with iron-rich beetroot to help make hemoglobin and soybean milk tofu for protein and calcium, which are essential for healthy bones and muscles, these nuggets are cheaper in price than chicken nuggets and contain less fat content.

EXHIBIT 19

Choco Ta Vie

PHARMACEUTICAL AND FOOD SCIENCE TECHNOLOGY

Presenters: Krystal Kenley, Jenny Tjioe, Gresi Gjongeci, Saba Zulefqar
Lead professor: Iraj Mehrnia

Choco Ta Vie is a chlorella-infused, chocolate-flavoured cereal. This nutrient-packed cereal will make you feel good about having chocolate in the morning.

EXHIBIT 20

Spirulina Bread

PHARMACEUTICAL AND FOOD SCIENCE TECHNOLOGY

Presenters: Kaushikkumar Patel, Nitesh Jain, Avinash Patel, Dharmit Patel, Nikhil Bajaj, Navneet Kaur, Divya Bansal, Hetvi Raval
Lead professor: Iraj Mehrnia

This new product offers significant proportions of vitamins, minerals and protein. While existing bread has about 3 grams of protein per 100 grams, Spirulina Bread has 30 grams of protein per 100 grams.



EXHIBIT 21

Happy Stacks

PHARMACEUTICAL AND FOOD SCIENCE TECHNOLOGY

Presenters: Jade Yip, Jennipher Pensamiento, Alice Monteiro, Chelsea Roy, Rumbi Mariga, Aleena Vimal
Lead professor: Iraj Mehrnia

Happy Stacks is a vegetable pancake mix that doesn't taste like vegetables. Make a quick and healthy breakfast with this gluten-free pancake mix to get your serving of vegetables. We are bringing the greens to a happy stack.

EXHIBIT 22

Banana Bytes

PHARMACEUTICAL AND FOOD SCIENCE TECHNOLOGY

Presenters: Nissy Anu Wilson, Gagan Deep, Gurjot Cheema, Mayur Vasani, Xuyen Hoang
Lead professor: Iraj Mehrnia

A new healthy snack that is a good source of nutrition and good for health as well.

EXHIBIT 23

Oat Meal Ice Cream (dairy-free)

PHARMACEUTICAL AND FOOD SCIENCE TECHNOLOGY

Presenters: Anitta Jose, Ashna Alias, Jeevan Mathew, Laisy Jose
Lead professor: Iraj Mehrnia

A dairy-free product to address the many people who are lactose intolerant. This is a low-sugar ice cream that is rich in dietary fibre thanks to the inclusion of oats.



EXHIBIT 24

Plant Protein Bar

PHARMACEUTICAL AND FOOD SCIENCE TECHNOLOGY

Presenters: **Smrit, Navpreet Kaur, Amandeep Kaur, Jaspreet Kaur, Gurpreet Kaur Dhaliwal, Balpreet Kaur, Md. Golam Azam**
Lead professor: **Iraj Mehrnia**

A plant protein bar enhanced with probiotics (to promote gut and immune health) that is vegan, free from gluten, soy, dairy, etc. A blend of sunflower, pumpkin or other plant-source protein along with a variety of nuts and seeds (healthy proteins and fats). It also contains antioxidant-rich dark chocolate, cherry, almond, coconut or a combination of Indian ginseng (ashwagandha to reduce stress) or cinnamon or other medicinal plant sources.

EXHIBIT 25

RawNeeds Co.

PHARMACEUTICAL AND FOOD SCIENCE TECHNOLOGY

Presenters: **Kuljeetkaur Dhanda, Sashniha Sundareswaran, Gunjan Gelot**
Lead professor: **Iraj Mehrnia**

This product is a nutritious, filling and tasty bite-sized snack that is rich in plant-based omega-3, fibre and protein. It is packed with power-fueling ingredients which provide more than the daily recommended value of plant-based omega-3. The simple and convenient packaging make it a great travel snack, breakfast fuel or a perfect snack to satisfy midnight cravings. This bite-sized snack is also a great pre-workout indulgence.

EXHIBIT 26

Coconut bliss - dairy-free ice-cream

PHARMACEUTICAL AND FOOD SCIENCE TECHNOLOGY

Presenters: **Jasmeen Kaur, Pawanpreet Kaur, Parminder Kaur Grewal, Shahbaz Ahmed**
Lead professor: **Iraj Mehrnia**

Providing a better dessert option for vegans with less sugar at a cheaper price.

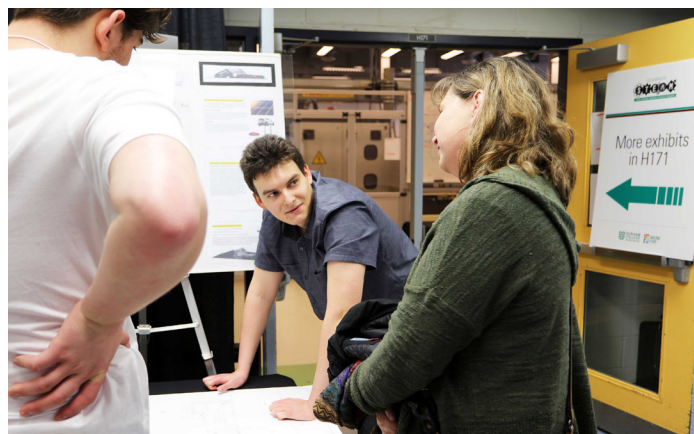


EXHIBIT 27

Sweet Spongy Plum

PHARMACEUTICAL AND FOOD SCIENCE TECHNOLOGY

Presenters: **Ramanpreet kaur, aaroshi, amanjot, supinder, khushpreet**
Lead professor: **Iraj Mehrnia**

Sweet Spongy Plum is a low-calorie sweet dish that can be eaten by those with diabetes. The texture is smooth and the taste is sweet. On the market, there are many sweet dishes which are rich in sugar content and not very healthy. This sweet dish has comparatively less sugar content.

EXHIBIT 28

Finger Millet Cookie (Cal -Coo)

PHARMACEUTICAL AND FOOD SCIENCE TECHNOLOGY

Presenters: **Karanam Fathima Nilesh, Yoginath Reddy Poreddy, Sarika Reddy Banoori, Akshay Kumar Reddy Teegala, Sumanpreet Kaur, Aakriti Gupta, Kurra Sri Sai Varun**
Lead professor: **Iraj Mehrnia**

Cal-Coo is a finger millet cookie, which is mainly responsible for supplying calcium to help make bones strong.

EXHIBIT 29

Multipulses Nuggets

PHARMACEUTICAL AND FOOD SCIENCE TECHNOLOGY

Presenters: **Teena Thomas, Cimija James, Christena Salimon**
Lead professor: **Iraj Mehrnia**

Multipulses Nuggets are high in protein, rich in fibre and low in fat. They are a healthy snack for all age groups. A ready to eat snack which comes in a handy packet.



EXHIBIT 30

Senior Solace Centre Intergenerational Program

GERONTOLOGY – ACTIVATION CO-ORDINATION

Presenters: Kathryn Bombino, Rachel Rutt, Ben Patton, Ryan Thomas, Kaylyn Baptist, Heather Ballantyne
Lead professor: Kimberlee Neault

A collaboration of college programs, faculty, facility resources and students to provide curricular and non-curricular intergenerational programming for older adults in the community on college property.



EXHIBIT 32

DC Housing Connect

GERONTOLOGY – ACTIVATION CO-ORDINATION

Presenters: Archchanna Uthayakumar, Rumeysa Deniz, Palak Thakkar, Marlon Campbell
Lead professor: Kimberlee Neault

DC Housing Connect is a program based out of Durham College. The agency connects older adults with resources and affordable housing, specifically co-housing. The agency uses students and faculty to coordinate and provide services.

EXHIBIT 31

Community Care Box

GERONTOLOGY – ACTIVATION CO-ORDINATION

Presenters: Farideh Namjoo, Jaskaranpreet Kaur, Maricris Ortiz, Madison Ruiter
Lead professor: Kimberlee Neault

This project aims to provide sensory stimulation and support to the older adults who are aging in place and are at high-risk of isolation and lack of enough sensory stimulation.

EXHIBIT 33

Lab located in Gordon Willey building, Room B114. Tours to the lab begin departing the CFCE Atrium at 9:45 a.m.

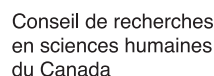
Human Interface Devices

GAME - ART AND GAME DEVELOPMENT

Lead professor: John Goodwin

Join us for a sneak peak at DC's (Durham College) new immersive studio space. Explore the use of Human Interface Devices in the development of training and simulation applications and, of course, games! Students and faculty will discuss innovative VR / AR / MR and motion-capture technologies at DC and their use in current and future applied research projects. Demonstrations of our motion capture, VR and live compositing will be on display.

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Innovation and Entrepreneurship
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the following funders and supporters.





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