



March 15, 2024 Loyola Conference Hall Saint Mary's University 1:00 to 4:30 p.m.



Agenda

1:00 PM

Event Opening Networking and visiting exhibitors

3:00 рм

Welcoming remarks by Dr. Adam Sarty, Associate Vice-President, Research and Danielle Goodfellow, Industry Liaison Officer

3:05 РМ

Three-Minute Pitch Presentations—Health Data Analytics Hosted by Danielle Goodfellow

4:00 PM

Opening remarks for the Research Reception and announcement of the Staff Research Recognition Award by Dr. Adam Sarty

4:30 рм

Closing of Research Reception

Presenters

Dr. Michael Zhang, Department of Finance, Information Systems and Management Science, *Measuring Emergency Department Resilience to Enhance Decision Making*

Timothy Froese, Channel Manager Adaptiiv Medical Technologies

Dr. Pawan Lingras, Department of Mathematics and Computing Science, *Descriptive and Prescriptive Health Care Analytics*

Sabiha Sultana, Research and Development Engineer Aruna Revolution Health

Dr. Majid Taghavi, Department of Finance, Information Systems and Management Science, *Predicting delayed discharge from hospitals: A decision support system using machine learning*

Ian Lemoine, COO and Biomedical Engineer Lead Parados Cerebral Solutions

Dr. Yigit Aydede, Department of Economics, *Developing New a Surveillance System for Asthma/COPD in Nova Scotia*

Dr. Dana Bhattacharyya, Research and Development Manager 3DBioFibR

Dr. Jason Rhinelander, Division of Engineering, *Using Large Language Models for Healthcare Applications: Challenges and Opportunities*

Dr. Lyna Kamintsky, Biomedical Engineer, Emagix

Exhibitors

- 1. Dr. Shirine Jeradi and Dr. Alexandra Merkx-Jacques, NSERC
- 2. Reid Sutherland, Mitacs
- 3. Jean-Marie James and Hector Fraser, Invest Nova Scotia
- 4. Michele Fash and Phil Romkey, ACENET
- 5. Erin Surette and Cindy O'Driscoll, Public Service and Procurement Canada
- 6. Dr. Yigit Aydede and Yi Xie, Department of Economics Nova Scotia Property Insights
- 7. Dr. Michael Zhang, Department of Finance, Information Systems and Management Science Enhancing Emergency Room Resilience using Business Analytics
- 8. Dr. Jason Rhinelander, Division of Engineering Applications of Artificial Intelligence
- 9. Dr. Majid Taghavi and Mahsa Pahlevani, Department of Finance, Information Systems and Management Science, Dr.
 Peter Vanberkel (Dalhousie University) and Dr. Enayat Rajabi (Cape Breton University)
- Dr. Christa Brosseau, Sumayyah Chotoye and Mary Stackaruk, Department of Chemistry Adventures in Plasmonics: From Sensing to Sustainability
- 11. Dr. Arla Day, CN Centre of Occupational Health & Safety
- Dr. Cheryl MacDonald and Quinn MacDonald, Scott McCain & Leslie McLean Centre for Sport, Business and Health

- **13. Dr. Ather Akbari** and **Ambreen Tabassum**, Atlantic Research Group on Economics of Immigration, Aging and Diversity
- **14. Dr. Linda Campbell, Erin Francheville,** and **Madison Bond**, Department of Environmental Science *Aquatic Invasive species: what is going on in the Maritimes?*
- 15. Dr. Linda Campbell, Heidi Gavel, David Lewis, Enobong Udoh, Lauren MacDonald, Sam Sequeira, Logan Phillips, and Bradley Knockwood, Department of Environmental Science Wetlands Contaminated By Historical Gold Mining Waste –

What Can Be Done To Promote Recovery?

16. Dr. Todd Ventura, Stephaniie Erhunmwunsee, Narges Ahangarian, Gamra Oueslati, Elish Redshaw, Anirban Chowdhury and Unyime Umoh, Department of Geology Environmental lipidomic baseline survey of near surface sediments from the Scotian Slope - Insights

Cold seep architecture – understanding subsurface hydrocarbon migration

Marine cold seeps and deep biosphere oases- rethinking the mechanism of seep gas into organic matter degradation and microbial interactions

Spatial distribution of archaeal lipids and respiratory menaquinones within three direct hydrocarbons indicators at the Scotian Slope

Microbial lipidomic ROV push core survey of active and prospective cold seep sediments

17. Dr. Jiju Poovvancheri, Prachi Kudeshia, Amr Ghoneim, Susrita Chatterjee, and Muhammad Altaf Agowun,

Department of Mathematics and Computing Science Exploring the Intersection of Geometry and Topology for Point Cloud Analysis

Deep Learning for Satellite Streak Segmentation and Image Composition

18. Dr. David Chiasson, **Sarina Scoville**, and **Sam Leverman**, Department of Biology *Legume plants and sustainable agriculture*

Synthetic Biology: nature-based solutions

- **19. Dr. Erin Cameron Stephen Paterson, Rachel Corney,** and **Maheshi Dharmasiri**, Department of Environmental Science
- 20. Dr. Jacob Hanley, Anna Terekhova, Josh Jackman, Delaney Carter, and Priyal Daya, Department of Geology Microanalytical insight into the geological origin of critical metal deposits and archaeological provenance of metals: Current research in the Mineral Exploration and Ore Fluids Laboratory
- **21. Greg Baker**, Maritime Provinces Spatial Analysis Research Centre
- 22. Dr. Danika van Proosdij, Jane Heeny and Kelly Umlah, TransCoastal Adaptions: Centre for Nature-Based Solutions TransCoastal Adaptations: Transforming landscapes for coastal resilience.

Green Shores for the Maritimes: Building capacity for naturebased coastal resilience

- 23. Dr. Tony Charles, Victoria Cullen, Meylin Zink Yi, Abdul-Aziz Alawy Mussa, and Sharair Nazrul Community Conservation Research Network
- 24. Senate Committee of Learning & Teaching and the Studio
- 25. Dr. Myles McCallum, Department of Languages and Culture
- **26. Dr. Daphne Rixon**, Centre of Excellence in Accounting and Reporting for Co-operatives
- **27. Dr. Wendy Carroll** and **Dr. Camilla Holmvall**, Department of Management Employee silence after unjust events: Exploring primary and secondary appraisal for speaking up

28. Dr. Patricia Matsumoto and Dr. Mathew Novak,

Wicked Problems Lab, Department of Geography and Environmental Studies Atlantic Canada's Hidden Histories Geotour and Community-Engaged Mapping

- 29. Dr. Kirrily Freeman, Director of Outreach and Experiential Learning, Faculty of Arts, Loyalist Connections Podcost Atlantic Canada's Hidden Histories Geotour
- **30. Dr. Karly Kehoe** and **Mathias Rodorff**, Gorsebrook Research Institute, *Gorsebrook Research Institute (GRI) for Atlantic Canada Studies*
- **31. Dr. Adel Merabet** and **Mohammad Rahimipour**, Division of Engineering, *Indoor Navigation in Retail Environments Using a ROS-Based Robot*
- **32. Dr. Aldona Wiacek** and **Kagan Akiyama**, Environmental Science, Research Update form the SMU Atmospheric Observatory (SAO) and the Wiacek Atmospheric Research Group (WARG)

- **33. Dr. Claudia De Fuentes**, **Halo Lu, Joseph Jung, Fariba Seeyedjafarrangaz,** and **Soheil Ahmadi**, Department of Management *Impact assessment of government support on innovation for green transitions*
- 34. Deborah Sanni and Katerina Msafari, Tribe Network
- **35. Meredith Drost**, Arthur L. Irving Entrepreneurship Centre
- 36. Nasil Nam, Michael Carew, Schnell D'souza, Spencer Griffin, and George Wu, Dal Innovates
- 37. Theresa MacLeod, Chris Fevens, Gail Lethbridge, and Shelley Hessian, Springboard Atlantic

Office of Innovation & Community Engagement

About Us

The Office of Innovation and Community Engagement (OICE) facilitates and fosters relationships by providing partners with a variety of services to benefit the development of new collaborations and project ideas.

OICE assists faculty with commercializing products and services that have been developed within Saint Mary's University. The office is the gateway for external partners wishing to connect with researchers to develop research relationships.

Every year OICE hosts a series of events to spark connections. Stay informed of upcoming events and recent business and research news by visiting our website,, <u>SMU.ca/oice</u>.

Services for External Partners

- Match research needs with expertise on campus
- Foster collaborations
- Assist with contract development
- Facilitate technology transfer

Contact Us

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