Science Research and Innovation Newsletter – February 7, 2022

Seminars

**SSE** Schulich Research Talks: “Microfluidic Electrochemical Biosensing Platform for Point of Care and Precision Diagnosis” By Dr. Amir Sanati-Nezhad (Department of Biomedical Engineering) & “Calgary’s Wastewater Monitoring Program for SARS-CoV-2” by Dr. Gopal Achari (Department of Civil Engineering) and Dr. Nicole Acosta (Cumming School of Medicine) on **Wednesday, February 9 at 12:00pm**. For Zoom link or questions, please email schulichresearch@ucalgary.ca

**CHEM** NANOtalk: “Sustainable Synthesis of Low-Value Chemicals, Fuels and Materials” by Dr. Md Golam Kibria (Department of Chemical and Petroleum Engineering, UofC) on **Wednesday, February 9 at 4:00pm**. Click here for Registration and the Zoom Link.

**GEOS** G.O.L.D. Seminar Series: “The Geoscience digital revolution: translating research into impact” by Dr. Adam Pidlisecky (Department of Geoscience, UofC) on **Wednesday, February 9 at 12:00pm**. Please contact the Geoscience Department for zoom details (geoscience@ucalgary.ca)

**PHAS** Colloquium Speaker Series: “Cascading interactions between climate and social tipping elements in the Anthropocene Earth system: Risks and Opportunities” by Dr. Jonathan Donges (Group Leader, Potsdam Institute for Climate Impact Research, Potsdam, Germany) on **Thursday, February 10 at 2:00pm**. See attached PDF for further details. Please contact the Physics and Astronomy Department for zoom details (phasoffice@ucalgary.ca).

**BISI** Ecology and Evolution Biology Seminar: “The use of eDNA by Indigenous Communities to Construct Pre-development Baselines” by Dr. Ave Dersch (Facilitator, Moccasin Flower Inc.) on **Friday, February 11 at 12:00pm**. Please contact the Biological Sciences Department for zoom details (biosci@ucalgary.ca)

**MTST** PIMS Geometric Analysis Seminar: “Lorentzian Calderón problem under curvature bounds” by Dr. Ali Feizmohammadi (Fields Institute) on **Friday, February 11 at 3:00pm**. Please contact the Mathematics and Statistics Department for zoom details (mathadmin@ucalgary.ca).

**MTST** Mathematical and Computational Finance Laboratory (MCFL)- Lunch at the Lab series: “Mastering Vectorization to Backtest Trading Strategies” by Lucas Lalor (Department of Mathematics & Statistics, UofC) on **Tuesday, February 15 at 12:00pm**. Please contact the Mathematics and Statistics Department for zoom details (mathadmin@ucalgary.ca).
Opportunities

Call for Nominations for Science Advisory Committee on Pest Control Projects
On January 27, 2022 the Minister of Health announced a call for nominations for a new science advisory committee on pest control products. Interested scientific experts are encouraged to self-nominate. The committee will provide scientific and technical advice to the Executive Director of the Pest Management Regulatory Agency. Deadline to apply is March 11. Apply here.

Reminder: From Lab 2 Fulfillment (FL2F) workshop
This purpose-driven workshop is for female faculty to help transform their research and discoveries into products and companies. The workshop was created by Dr. Yadid-Pecht (Department of Electrical and Computer Engineering) to guide women in STEM and Medicine towards commercialization. For more information on this workshop please check out their website http://www.fl2f.ca/. They are willing to accommodate up to two female faculty members from Science this year. If you would like more information or are interested in attending, please Contact: Dr. Orly Yadid-Pecht (orly.yadid-pecht@ucalgary.ca)

Reminder: Emissions Reduction Alberta (ERA): Carbon Capture Kickstart is seeking proposals to develop critical insights, build momentum, and accelerate decision-making for investments into industrial scale carbon capture and transport projects in Alberta. See ERA’s program page and Expression of Interest guidelines pages, and the UC funding calendar page for more information.
Research Services EOI deadline: February 28 at 12:00pm RSO Contact: Lisa Singh

Opportunities – Awards
If you are planning on submitting a nomination for yourself or someone else, and would like support in developing the nomination package, please contact Danielle Demiantschuk as early as possible.

UCalgary Sustainability Awards honor students, faculty and staff members for their outstanding positive contributions to the sustainable future of UCalgary and our world. Nominations for any of the six categories (undergraduate student, graduate student, research, teaching and staff – individual or group), and self-nominations are welcome until February 22, 2022.

Balzan Prize: The Balzan Prizes are awarded to scholars, artists and scientists who have distinguished themselves in their fields on an international level. Deadline: March 15, 2022. The 2022 Balzan Prizes will be awarded in the following fields related to science:

- Balzan Prize in Biomaterials for nanomedicine and tissue engineering
- Balzan Prize in Glaciation and ice-sheet dynamics

The Global Energy Prize is awarded to the world’s leading scientists, whose discoveries and technological innovations meet global energy challenges. More information is here. Deadline: March 20.

The Timothy R. Parsons Medal was established by Fisheries and Oceans Canada to recognize distinguished accomplishments in multidisciplinary facets of ocean sciences. Details here. Deadline: March 31, 2022

Royal Society of Canada Awards and Medals nominations are open from January 15 to March 31 and details are here for eight opportunities in geological, biological, mathematical, medical, environmental, chemical, and atmospheric science, and physics.
The Charles A. Whitten Medal (American Geophysical Union) is awarded to a senior scientist in recognition of outstanding achievement in research on the form and dynamics of the Earth and planets (usually in geodesy, nonlinear geophysics, planetary sciences, seismology or tectonophysics). **Deadline: April 1, 2022**

The Waldo E. Smith Award (American Geophysical Union) is awarded to a senior scientist in recognition of extraordinary service to Earth and space science. Successful candidates have strengthened and helped advance our scientific disciplines, as well as played unique leadership roles in scientific associations, education, legislation, research, management, philanthropy, or the public understanding of science. **Deadline: April 1, 2022**

The Grawemeyer Award in Education is intended to stimulate the dissemination, public scrutiny and implementation of ideas that have potential to bring about significant improvement in educational practice and advances in educational attainment. The award is designed to recognize a specific recent idea/study rather than a lifetime of accomplishment. Info [here](#). **Deadline: April 15, 2022.**

**Calgary’s Top 40 Under 40** features young business and community leaders who are excelling in their careers, are giving back to the community, and who, through personal and professional efforts, are raising the profile of Calgary. Please visit the [website](#) for more information. **Deadline: April 30.**

**Opportunities – Health Sciences**

**UPDATE: CIHR Project Grant - Reminder to Register & Extended Deadlines!** In light of the disruptions caused by the Omicron variant of COVID-19, CIHR is extending the registration and application deadlines for the Spring 2022 Project Grant competition. RSO’s final deadline for full application 9:00am on March 14, 2022. RSO Contact: Lindsey Hritzuk

**Sick Kids New Investigator Research Grant** enables early-career researchers to make a meaningful contribution to the fight for children’s health. Grant recipients may obtain up to three years of support for research in the biomedical, clinical, health systems and services, population and public health sectors. Value: $100,000 per year for up to 3 years **RSO Deadline for Full application:** April 15, 2022 at noon; contact Stephanie Patrick

**Canadian Blood Services Intramural Research Grant Program** supports research that will advance knowledge in specific research priorities ($200,000 per year for up to 2 yrs). **RSO Deadline for Full application:** April 19, 2022 at noon, contact Stephanie Patrick

**Reminder: Alberta Innovates/CIHR: Computer Modeling and Simulation to Accelerate Health Research** for priority research area of Computer Modeling and Simulation to Accelerate Health Research through CIHR’s 2022 Spring Project Grant Competition (202203PJT) and aims to develop novel tools, techniques, methods, or technologies for computational modelling and simulation to accelerate health research OR radically advance existing computational modelling and simulation approaches to accelerate health research. Up to $150,000 per project for 1 year is available. **RSO internal application deadline March 14 @ 9am.**

**Opportunities – Postdocs and Graduate**

**REMEMBER: 2022 Killam Postdoctoral Fellowship** to engage in training at the University of Calgary in all faculties and research areas, consolidate their research training, develop and initiate original research in their discipline, and contribute to the activities of the host unit. Postdocs who have completed their PhD or equivalent degree from another institution between 1 September 2019 and 1 September 2022 are eligible; details are [here](#). **Award:** $50,000 per year for two years and a one-time $6,000 research allowance **Deadline:** Friday, February 18 at 11:59 p.m. MST **Contact:** vprawards@ucalgary.ca
National Science Foundation- STEM Education Postdoctoral Fellowship (new!) is soliciting applications for postdoctoral fellowships. The Fellowships are open to U.S. citizens, national or legally admitted permanent resident alien of the United States. Details: here Deadline: March 1

GSA Peer Beyond Graduate Research Conference is now open for presentation registration. The virtual conference will be Feb 23 to 25. Graduate students are invited to present their research by registering here. Last year, 95 Graduate students presented from 10 Faculties and shared their research with over 200 attendees.

Hugh C. Morris Experiential Learning Fellowship is open to any graduate student studying in Canada working in a field related to earth, geoscience, environment, alternative energy, water, climate change, sustainability or to the social impact, social sciences or design sciences related to these areas. It is designed to provide a unique experiential travel program designed by the student. Award: $40,000 Deadline: February 15 - Details here


EDGE Program is a workshop at Roots of Unity Workshop (June 12-16, 2022) designed to support women, particularly women of color, who have completed 1-3 years of graduate school and are considering research in algebra, combinatorics, geometry, topology, or number theory. Details here Deadline: February 15

Canada-ASEAN Scholarships and Educational Exchanges for Development (SEED) Global Affairs Canada has opened the 2022/23 call for funding for short-term exchange opportunities for study or research at Canadian institutions. $10,200-12,700 available for undergraduate or graduate students from ASEAN member states (Brunei Darussalam, Cambodia, Indonesia, Laos, Malaysia, Myanmar, the Philippines, Singapore, Thailand, or Vietnam) for research or study lasting 4-6 months. Details and internal application here. For application advice and support, contact Heather Clitheroe. Deadline: February 20.

Emerging Leaders in the Americas (ELAP) Scholarships Global Affairs Canada has opened the 2022/23 call for Emerging Leaders in the Americas Program (ELAP) scholarships for undergraduate and graduate students to undertake short-term research or study at Canadian institutions. $8,200-11,100 available for 4-6 months for students from the Caribbean, Central America, Mexico, and South America (full list of eligible countries in guidelines). Details here, contact Heather Clitheroe. Deadline: March 7.

2022-2023 Study in Canada Scholarships Global Affairs Canada has opened the 2022/23 call for Study in Canada Scholarships, which provide short-term opportunities for study or research at Canadian post-secondary institutions from eligible countries in Asia, Europe, Middle East and North Africa, and Sub-Saharan Africa. $10,200-12,700 available for research visits lasting 4-6 months. Details and internal application here. For application advice and support, contact Heather Clitheroe. Deadline: March 7.

Congratulations

Congratulations to Sarah Marie Reid, a Graduate student in Geoscience on her well-deserved Equity, Diversity and Inclusion (EDI) Award from University of Calgary for her work on improving the field school experience and promoting positive cultural change in the Department of Geoscience. To read more in UToday and to watch her video please click here.
Congratulations to Dr. Ian Hunt, Department of Chemistry, for his Innovation and Curiosity – U Make A Difference Award. He was recognized for countless efforts in creating online content for undergraduate students to learn and practice, which included creating an in-house system, which is equivalent to commercially available examination packages, without the cost.

Congratulations to Dean Kristin Baetz. She is the recipient of the 2022 Jeanne Manery-Fisher Memorial Award. This award recognizes an eminent Canadian woman scientist who has a distinguished career in the fields of biochemistry, molecular or cellular biology or genetics, resulting from her outstanding contributions to research, teaching or society.

NanoCanada is pleased to announce their New Board of Directors Chair is Dr. Barry Sanders (PHAS). To read more click here.

Dr. Benjamin Tutolo has been selected to be part of the NASA Mars Science Laboratory Curiosity Rover team as it explores Gale Crater over the next three years. He will be working to interpret the signals of planetary habitability recorded in the Gale Crater sediments analyzed by Curiosity. To enhance the impact of data returned by the rover, he will be running numerical models of geochemical reactions and fluid flow that occurred during the deposition of these sediments in the ancient Gale Crater Lake, as well as comparing them to active lake systems of the Cariboo Plateau, British Columbia. Congratulations, Dr. Tutolo!

Congratulations to Dr. Ian Lewis in the Department of Biological Sciences, who was part of a team who received funding this week to implement a province-wide diagnostics platform for medical research. The Government of Alberta is contributing $3 million over three years to the project, the Alberta Diagnostics Ecosystem Platform for Translation (ADEPT).

Did You Know?

Science Research and Innovation Newsletter (SRIN) comes out every Monday afternoon. If you have a seminar notice, congratulations or awards for the newsletter. Please submit it by noon on Friday to sci.borg@ucalgary.ca to ensure it is added.