Science Research and Innovation Newsletter – June 20, 2022

Thesis Defense Seminars

**GEOS** MSc Final Seminar: “Prolonged Post-Orogenic Extension in the Southeastern Canadian Cordillera: Miocene Reactivation of the Columbia River Fault” by Kade Damant (Supervisor: Dr. Eva Enkelmann) on Friday, June 24 at 9:00am. Please contact the Geoscience Department for zoom details (geoscience@ucalgary.ca)

**GEOS** PhD Final Seminar: “An alkalophilic cyanobacterial consortium for air-capture and conversion of carbon dioxide” by Maryam Ataeian (Supervisor: Dr. Marc Strous) on Thursday, June 30 at 9:00am. Location: ES 136

**MTST** PhD Final Seminar: “Derivatives Pricing with Fractional Discrete-time Models” by Sarath Kumar Jayaraman (Supervisor: Dr. Alexandru Badescu) on Thursday, June 30 at 9:30am. Location: Hybrid - MS337 or Please contact the Mathematics and Statistics Department for zoom details (mathadmin@ucalgary.ca)

**CPSC** MSc Final Seminar: “The Category of Kirchhoff Relations” by Amolak Kalra (Supervisor: Dr. Robin Cockett) on Monday, July 4 at 2:00pm. Please contact the Computer Science Department for zoom details (cpsc@ucalgary.ca)

**BISI** MSc Final Seminar: “Mutations of succinyl-CoA synthetase to study the swinging of the phosphohistidine loop” by Rishika Puri (Supervisor: Dr. Marie Fraser) on Tuesday, July 19 at 9:00am. Location: BI 211

Seminars

**MTST** Number Theory Talk: “A family of phi-congruence subgroups of the modular group” by Dr. Angelica Babei (PDF, Department of Mathematics & Statistics, McMaster University) on Thursday June 23 from 11:30 – 12:30am. Location: Hybrid – MS 337 or contact the Mathematics and Statistics Department for zoom details (mathadmin@ucalgary.ca)

**FoS** Science Dialogues: Q&A with Trevor Poffenroth, Interim Chief Information Officer and the UCalgary IT leadership team on Tuesday, June 28, 12:00-12:45pm in ST 148. The first session of increasing Science’s engagement with other groups across campus! All faculty and staff are welcome to attend this open dialogue Q&A session. Please see attached pdf for further details.

**FoS** ECR Workshop: Teaching Dossiers for Early Career Researchers on Tuesday June 28 from 1:00-2:30pm via Zoom. Facilitators: Drs. Wendy Benoit and Marcus Samuel. Preparing a teaching dossier is a significant, but deeply rewarding process that is also necessary for tenure, promotion, or teaching award applications. This workshop will discuss the fundamentals, provide resources, and share experiences. This workshop is open to all Science faculty members, PhD students, and PostDocs (please email cdawes@ucalgary.ca for zoom info).

Opportunities

**Seeking Arctic Researchers - Opportunity to meet with Premier of the Yukon Government**
If you are an Arctic researcher and would like opportunity to meet with the Premier of the Yukon Government the week of July 25, please contact Rhian Gunn to indicate your interest.

**Internal Discovery Grants (DG) Information Sessions**

**NSERC Discovery Grants – Internal (RSO) Info session for all applicants - June 22nd 3:00 – 4:15 PM** where RSO will be review recent updates to the NSERC Discovery DG program and internal submission process. Panelists
from Engineering, Science, Medicine will discuss the evaluation process and tips and tricks for successful
applications. Please register HERE.

NSERC DG – Internal (RSO) Info session for Early Career Researchers (ECR) July 7th 2:30 – 3:45 PM.
Panelists from Engineering, Science and Medicine will discuss DG applications from the ECR perspective, with a
focus on tips and tricks for success & strategies for specific application sections. Everyone (not only ECRs) is
welcome! Please register HERE.

Reminder: Clean Resource Innovation Network webinar on water treatment challenges in the oil and
gas industry on Tuesday, June 21 from 10:00-11:30am MST. Representatives from the oil sands, hydraulic
fracturing, and conventional oil and gas sectors will present their top challenges and explain the resources and
processes available to support technology development. A panel discussion and moderated question period will
follow. Please register here.

Reminder: Biopharmaceutical Symposium hosted by 3M Canada In collaboration with BioAlberta,
3M Canada will bring together top experts — in person — to discuss the future of the biomanufacturing industry in
Canada on Wednesday, June 22. For further information or to register please click here.

Reminder: 2022 New Frontiers in Research Fund – Exploration Stream is to inspire high-risk, high-
reward and interdisciplinary research that pushes boundaries into exciting new areas. Researchers are
couraged to think “outside of the box”, undertake research that would defy current paradigms, and bring
disciplines together in unexpected ways and from bold, innovative perspectives. Grants are for up to $100K/year
direct funds for 2 years. RSO deadline for Notice of Intent: June 21 @ 9am via the Convergence portal; Full
application: September 6 @ 9am. Webinar for NOI: May 27, 11am-1pm MST please email cdawes@ucalgary.ca for
zoom info.

Reminder: NSERC Discovery Grants Information Webinar - Submission of a Notification of
Intent to Apply June 23 or July 5 at 11:00am to 12:00pm MST. Links available for June 23, 2022, July 5, 2022,
and pre-recorded videos (2022 videos coming soon) and How to prepare a Discovery Grant Notification of Intent to
Apply (NOI)!

Reminder: “Media Relations for Researchers” - a virtual session from RSO’s Knowledge Engagement
team (open to all faculty, postdocs and grads). Learn the basics of media relations, how to best share research on
controversial topics, how to navigate media relations, and ways media can be effectively incorporated into your
knowledge mobilization plans. Register here.

Reminder: Ideas Fund provides financial support for undergraduate science students to engage in innovation,
leadership, educational, and professional development activities that are most meaningful to them. The range of
activities eligible for funding is intentionally broad, supporting professional development seminars and workshops,
field experiences and science competitions across the globe. Faculty and TAs are encouraged to share this with
undergraduate students. Any questions can be directed to Wendy Benoit or science.engagement@ucalgary.ca.
Please click here for more information. Deadline: July 4, 2022

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.

Steacie Prize in Natural Sciences (E.W.R. Steacie Memorial Fund): The award of $10K is presented to
a scientist or engineer of 40 years of age or less for outstanding scientific research carried out in Canada. It is
separate from the former NSERC Steacie Fellowships. Details here. Deadline: June 30, 2022
Royal Society of London Fellowships: Candidates must have made ‘a substantial contribution’ to the improvement of natural knowledge, including mathematics, engineering science and medical science. [Details here.]

Alexander von Humboldt Foundation: Offers several [awards and fellowships] for academics. The four major opportunities have [no nomination deadline].
- Humboldt Research Award
- Humboldt Research Fellowships for Experienced Researchers
- Friedrich Wilhelm Bessel Research Award
- Fraunhofer-Bessel Research Award

Opportunities – Postdocs and Graduate
Request for Input: Proposed Haskayne Master of Finance-Survey for Grad students
The Haskayne School of Business is in the proposal stage for a new Master of Finance program as an additional path for students with a quantitative degree or background in three streams: Investment Management, Advisory & Corporate Development and Financial Technology. They would value your input on whether this type of program is appealing to you. The 6 to 7 minutes survey will close on [July 15, 2022] and is here: [https://survey.ucalgary.ca/jfe/form/SV_3mDHEZBZo0lmIVM]

Reminder: GROWW Cohort Program strives to positively impact the lives of all people who identify as women and to inspire individuals who are dedicated to propelling women’s health. This 2-year training program will include seminars from academics within the field of women’s and girl’s health, experiential learning opportunities and workshops, mentorship partners, a summer institute, and professional networking to help co-create new research and/or employment opportunities. Award: $40,000 minimum per year for 2 years ($20,000 from partial scholarship & $20,000 minimum fund match from supervisor). RSO Final Internal Deadline (Full Application): Friday, June 24 12:00 p.m. MDT Contact: rsotrainee@ucalgary.ca

Reminder: Mitacs – Elevate is a two-year training program for postdoctoral fellows (PDFs), where participants lead and undertake a research project with an industry partner. Open to all disciplines and all industry sectors. Award: $70K minimum per year for 2 years RSO Final Internal Deadline (Full Application): Thursday, June 30 12:00 p.m. MDT Contact: rsotrainee@ucalgary.ca

Reminder: Mitacs - Accelerate puts your talent to work with a paid internship at an organization that needs your expertise. This application can be submitted at any time, with a minimum of $10K each four months for up to 3 years. Contact: rsotrainee@ucalgary.ca

Reminder: UEX Scholarship for Advanced Studies in Geology established by UEX Corporation in honour of Colin Campbell Macdonald. The scholarship that will be awarded annually to a student with Canadian residency pursuing a post-graduate degree where the student research and future professional career goals are in mineral exploration. Deadline August 31, 2022, at noon (12:00 p.m. MDT). Contact: uex@uexcorp.com

Opportunities – Heath Research
Team Grant: CIHR-JDRF Type 1 Diabetes and Precision Medicine
This funding opportunity will support projects relevant to precision medicine and T1D. Registration is required by CIHR by Thursday, July 21, 2022. RSO’s final internal deadline for the full application is noon on Thursday, August 18. RSO Contact: Lindsey Hritzuk
CIHR Catalyst Grant: Policy Research for Health System Transformation supports Policy Research for Health System Transformation grants, including retrospective policy evaluations or prospective policy development/implementation, that generate evidence to inform macro-level policies to support high-performing health care and public health systems in Canada with the aim of advancing the Quadruple Aim – improved population health outcomes, better patient and provider experience, and increased value – and health equity (sometimes referred to as the Quintuple Aim). Final internal deadline for the full application is noon on September 29, RSO Contact: Lindsey Hritzuk

CIHR Operating Grant: Diabetes, Psychosocial Health, Prevention and Self-Management will support research into approaches that will build on successful models of care, knowledge mobilization, and optimization of self-management. Final internal deadline for the full application is noon on October 27, RSO Contact: Lindsey Hritzuk

Opportunities – Social Sciences

RSO SSHRC Information Sessions – Insight Grant Session and Budget Workshop

SSHRC Budget Workshop: Tuesday June 21st from 11:00AM to 12:30PM
Join us on June 21, 2022 from 11:00am to 12:30pm as representatives from the External Grants and Institutional Programs Division teams discuss preparing a budget for a SSHRC research grant application (including Insight Grants, Partnership Grants, and Connection Grants). Topics covered include general budgeting considerations, common SSHRC cost categories, matching and in-kind contributions, as well as common post-award questions. Presentation will be followed by a short Q&A period.
Everyone is welcome. To join this session, please email RSO by June 20th to register. You will receive the Zoom link and password on the 20th.

SSHRC Insight Grant Information Session: Monday June 27th from 1:00PM to 2:30PM with Dr. Penny Pexman (AVPR) and RSO June 27 1:00pm to 2:30pm The session will include an overview of the program, institute success rates, application and submission instructions, as well as tips and tricks. Panelists include our own Dr. Jennifer Adams (Science) and Dr. Tonya Callaghan (Werklund) who will speak to their experiences, followed by an open discussion/Q&A period. Everyone is welcome, and can join by email to RSO by June 24th.
Contact Stephanie Patrick

Congratulations

Congratulations Dr. Wenyuan Liao (MTST) who has been appointed the new PIMS Calgary Site Director. He’ll be replacing Dr. Kristine Bauer (MTST) as she steps into her new role as PIMS co-Director (Industrial). For further information please click here.

Congratulations to Dr. Jennifer Adams (CHEM) who was awarded the Calgary Black Achievement Award for 2022 for STEM. The award is for an individual who excels in Science, Technology, Engineering, and Math and who is creating opportunities for Black community members to get involved and join the field. For more information please click here or to watch her acceptance video please click here.

Congratulations again to Dr. Jennifer Adams (CHEM) for her SSHRC Insight Grant, “Race in Postsecondary STEM Education,” with Postdoctoral Associate Dr. Sarah El Halwany (CHEM).

Congratulations to Dr. Barry Sanders (PHAS) who was awarded a City of Calgary 2022 Award for International Achievement. This award recognizes an exceptional Calgarian whose volunteer and/or professional activities have
gained international acclaim or brought recognition to Calgary. For further information please see the UToday article. Please click here for the City of Calgary Awards page with more information on this prestigious award.

Did you Know

NSERC is taking action to help the natural sciences and engineering research communities contribute to a more equitable, diverse and inclusive research enterprise, with the of the NSERC guide on integrating equity, diversity and inclusion consideration in research.

F2022 Special Topics Courses for Science Grad students

Below is a list of new (or relatively new) F23 graduate courses in ‘special topics’ courses and/or graduate courses that may be beneficial to, and attended by, students outside of the program in which the course is scheduled. If you are interested in enrolling in one of the below classes, please contact sci.grad@ucalgary.ca for assistance.

GEOG 508 Watershed System Science An introduction to advanced concepts in hydrology and watershed analysis, including the impacts of a changing climate and human influence. Involves hands-on computer modelling and experimental labs, and a design project. This course provides students with a new technical elective designed with the intent to be a multi-disciplinary course that bridges the gap between undergraduate education and careers in water resources
Meeting time: Tuesday and Thursday, 9:30-10:45am not including Lab times
Instructor: Tricia Stadnyk

SCIE 601 Theory and Practice of University Teaching and Learning in STEM Emphasizing a research-to-practice approach, this course will engage students in readings and discussions about current research, theory and methodological approaches, and pedagogical approaches in Discipline Based [STEM] Education (DBER) research. Course readings will be varied and include scholarly, practical, and popular readings in order for students to gain nuanced understandings of the social contexts and related issues and challenges of college and university STEM education. Course materials will also emphasize critical, antiracist and decolonizing frameworks to transforming postsecondary STEM education for the belonging of diverse students and cultural-scientific worldviews. While there will be seminal readings, aspects of the course will be co-designed with students’ interests and professional needs in mind. Activities will be geared towards designing environments for equitable postsecondary STEM education, broadening ideas about assessments and evidence of student learning, SoTL research and other topics that emerge from students’ interests and experiences.
Meeting Time: Tuesday, 12:30-3:20pm
Instructor: Jennifer Adams

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.