**Thesis Defense Seminars**

**BISI**  MSc Final Seminar: “Membrane Interactions of Gadolinium” by Colin Unruh (Supervisor: Elmar Prenner) on **Tuesday, August 30 at 10:00am** in Bl 211.

**CMD**  PhD Final Seminar: “Investigating the Design of an Immersive Smart Home System for Supporting Seniors Living with Neurocognitive Disorders” by Lorans Alabood (Supervisor: Dr. Frank Mauer) on **Thursday, September 1 at 10:00am** in ICT618B.

**CHEM**  MSc Final Seminar: “Identification of Disinfection By-products from Chlorination and Bromination of Benzotriazole” by Md Fahim Hossain (Supervisor: Dr. Susana Kimura-Hara) on **Thursday, September 1 at 1:00pm**. Please contact the Chemistry Department for zoom details (chem.info@ucalgary.ca).

**MTST**  MSc Final Seminar: “Causal inference with non-probability sample and misclassified covariate” by Emir Sevinc (Supervisor: Dr. Hua Shen) on **Wednesday, September 7 at 2:00pm**. Please contact the Mathematics and Statistics Department for zoom details (mathadmin@ucalgary.ca).

**BISI**  PhD Final Seminar: “Physical and chemical alterations to the intestinal mucus barrier during Giardia spp. Infection” by Elena Fekete (Supervisor: Dr. Andre Buret) on **Thursday, September 15 at 9:00am** in BI211.

**Seminars & Events**

**HBI** The **1st Annual Computational Neuroscience Townhall** will be taking place on **Thursday, September 1st at 10:30 am** and we would like to invite Faculty, Staff and Trainees of the University of Calgary to join Dr. Joern Davidsen and HBI Leadership for announcements on the Neuroscience Platform. This Townhall is taking place in-person at the Health Sciences Centre, Theatre G500 as well as via Zoom Webinar. Registration is required to attend. Registration deadline is **August 31, 12:00pm**. Please register [here](#).

**BISCI** The **37 ½ th Darwin Lecture** "Dinner With the Darwins: A Journey Into Evolutionary Thought In Three (Or Four) Courses" by Dr. Rees Kassen (Professor and University Research Chair in Experimental Evolution, University of Ottawa). **Friday, September 9 at 4:00 pm** in ICT 122. The lecture is free and open to all, with no advance registration required. See attached pdf for more information.

**MTST** The **42nd Alberta Statisticians Meeting** will be held on **Saturday, September 17** at the University of Alberta. All statisticians, postdocs, students are welcome to join the meeting. If you are interested to participate the meeting please drop your name, email address and whether you are going to attend the conference dinner Please contact the Mathematics and Statistics Department for zoom details ([mathadmin@ucalgary.ca](mailto:mathadmin@ucalgary.ca)) for the registration link.

**Information for NSERC Discovery Grants & RTI Applicants**

**Faculty of Science – NSERC DG and RTI Timelines** The timelines are available [here](#). Please contact our Research Facilitator Rhian Gunn if you have any questions or concerns.

**Reminder: EDI in Research Lunch and Learn Panel: Mentorship and the Training Environment**
The Office of EDI and Research Services are hosting this session on **Wednesday, August 31, from 12:00 – 1:00 pm**. This session will use some of the key areas of evaluation from the NSERC Discovery Grant application to frame the questions to frame the questions and advice from the panel. See attachment for further details. Please contact sci.ad.admin@ucalgary.ca for more information.

**Opportunities**

**Japan Pharma Reverse Pitch Session** The Embassy of Canada to Japan will hold this special session hosting leading Japanese pharmaceutical companies as they present their current business models, licensing strategies, and research collaboration interests. This session would be suited for life sciences companies with therapeutic compounds, drug development technologies, academic researchers with novel technologies and molecules, and public organizations who are interested in gaining intelligence on Japanese pharma companies.

A B2B meeting application form will be distributed at the end of this session. The applications will be reviewed by the speaker companies to arrange B2B meetings.

**Date:** 6:00PM (MST) **September 28, 2022**

**Tentative Program:**

6:00PM Opening Remarks by Embassy of Canada to Japan  
Presentation 1: Daiichi Sankyo Co., Ltd  
Presentation 2: Kissei Pharmaceutical Co., Ltd.  
Presentation 3: Sumitomo Pharma Co., Ltd.  
Presentation 4: Asahi Kasei Pharma Corporation  
Q&A Session  
7:30PM Closing Remarks

To register, please contact sci.ad.admin@ucalgary.ca for zoom link. If you have any questions, please feel free to contact TOKYO-ForeignDirectInvest@international.gc.ca The Embassy of Canada to Japan via KYT will send you a ZOOM link to the webinar, approximately one week prior to the event.

**Weston Family Foundation Homegrown Innovation Challenge**

In a climate-changing world, Canada’s high dependence on imported fresh fruits and vegetables make it vulnerable to food systems disruption. By solving the interconnected challenges that currently prevent out-of-season production at scale, the Homegrown Innovation Challenge will catalyze a range of solutions relevant to a broad array of fruit and vegetable crops in Canada and around the world.

**Shepherd Phase - Due December 20, 2022**

The top 10 innovation teams selected by an independent judging panel will be awarded up to $1 million each across an 18 month period to develop and demonstrate a small-scale proof of concept of their system, generating evidence and learning to be assessed for progression to the Scaling Phase. Solutions should be reaching Technology Readiness Level 5 or higher by the end of the Shepherd Phase (when being submitted to the Scaling Phase).

- Amount: up to $1 million for 18 months  
- RSO Internal Deadline: December 15, 2022 at noon

For more information please contact Stephanie Patrick

**UofC Teaching and Learning Grants** are an excellent way to gain funding support for teaching ideas you want to implement and provide avenues for collaborating with peers and students on teaching projects. Information session in late September, contact Yvonne Murray to register. Details here. **Deadline October 31, 2022.**

**Reminder: Alberta Innovates: Advancing Hydrogen - Competition 1**

This program is directed towards developing projects that support goals outlined in Alberta’s Hydrogen Roadmap following the identification of hydrogen as an emerging market in the Natural Gas Vision and Strategy. Submissions
will be evaluated using a two-stage application stage. Intake proposals should be submitted electronically using the SmartSimple intake form by September 6 at 5:00 MST. If invited to full proposal, the internal deadline is noon on November 15.

**Reminder: Alberta Innovates: Water Innovation Program** is interested in water projects in three streams (details can be found in the program guide):

- **Stream 1:** Integrated Approaches to Water Management
- **Stream 2:** Management of Climate Change Impacts
- **Stream 3:** Water and Wastewater Management in Rural, Indigenous and/or Remote Communities.

Expressions of interest must be submitted via the SmartSimple online intake system by September 15 at 3pm. If you are invited to full proposal, the internal deadline is noon on January 9, 2023.

**Opportunities – Awards**

For any award, including those listed below, 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. Other opportunities can be found on the FOS awards site, and in the RSO awards database.

**Guggenheim Memorial Foundation Fellowships** are intended for mid-career individuals who have demonstrated exceptional capacity for productive scholarship and exhibit great promise for their future endeavors. Details here. **Deadline: September 16, 2022.**

**12th Annual Mitacs Awards** recognize outstanding students, fellows, and professors who have demonstrated excellence and leadership during their work supported by the Mitacs Accelerate, Elevate, Business Strategy Internship, Training, or Globalink programs. Details here. **Deadline: September 18, 2022 at 9:00PM MT.**

**Blue Planet Prize** is presented to individuals or organizations from around the world in recognition of outstanding achievements in scientific research and its application that have helped provide solutions to global environmental problems. Details here. **Deadline: October 1, 2022.**

**NSERC Awards for Science Promotion** honours individuals and groups who have made an outstanding contribution to the promotion of science in Canada, for at least five years, through activities encouraging popular interest in science or developing science abilities. Details here. **Deadline: November 25, 2022.**

**Peter Gruber Foundation Cosmology Prize** celebrates individuals whose achievements have produced fundamental advances in our understanding of the structure and evolution of the universe may be nominated. Details here. **Deadline: December 15, 2022.**

**Opportunities – Health Sciences**

**Reminder: Heart & Stroke - New Investigator Award** is a salary award to support new investigators who have demonstrated excellence in their doctoral and post-doctoral training. Salary awards provide an added incentive for researchers to continue or begin their program of cardiovascular or cerebrovascular research within Canada. At the time of submission, the applicant must have a full-time appointment at the Assistant Professor level or above in Canada.

- Research Services’ final internal deadline for the full application is **Thursday, September 1, 2022 at noon**

  RSO Contact: Anna LeMarquand
**Crohn’s and Colitis Grant in Aid of Research** supports research projects directly related to IBD that are aligned with Crohn's and Colitis Canada’s Promise and strategic directions.

- Amount: $125,000 per year for up to 3 years
- RSO NOI Deadline: **September 12, 2022 at noon**
- RSO Internal Deadline: **November 25, 2022 at noon**

For more information please contact **Stephanie Patrick**

**Crohn’s and Colitis Innovations in IBD Research** This grant is intended to stimulate and support research which may not be encompassed within the boundaries of traditional medical research.

- Amount: $50,000 for one year
- RSO Internal Deadline: **November 25, 2022 at noon**

For more information please contact **Stephanie Patrick**

**OPTions Initiative - Next Generation Methods** aims to support women’s, girls’, and people with diverse sexual and gender identities’ access to safe abortion in low- and middle-income countries. We seek innovative and transformative approaches that put women, girls, and people with diverse sexual and gender identities in control of where, when, and how they terminate their pregnancy. The focus of this call is to support the development and testing of next generation methods of pregnancy termination, menses induction or conception interruption. Eligible organizations may submit only one application. Please see [funding calendar entry](#) for further details. INOI due to RSO by noon on **October 14**.

Contact: **Anna LeMarquand**

**Opportunities – Social Sciences**

**Reminder: SSHRC Insight Grants Info Session (hosted by SSHRC)**

SSHRC will host a webinar for applicants and research administrators to provide information concerning the upcoming Insight Grant Competition October 2022 competition via WebEx, including a question-and-answer session. Advance registration is not required.

**Webinar:** Insight Grants (English)
**Date:** September 1 @ 11AM MST
**WebEx Link:** contact sci.ad.admin@ucalgary.ca for link
RSO contact **Stephanie Patrick**

**Opportunities – Postdocs and Graduate**

**PIMS VXML** The PIMS Virtual Experimental Mathematics Lab (VXML), brings together faculty & postdocs with graduate and undergraduate students from across the PIMS network to work on challenging and exciting research mathematics questions. Please propose a project using the online [form](#) by **Thursday, September 15**. For more information visit the [PIMS VXML website](#).

**Reminder: IDRC International Doctoral Research Awards** of up to $20,000 are available for doctoral students to undertake field research for their dissertation in a developing country in one of five areas (climate-resilient food systems, democratic and inclusive governance, education and science, global health, or sustainable inclusive economies). Applicants must be enrolled at a Canadian university and may be a citizen or permanent resident of Canada or a citizen of a developing country as defined by OECD. Applicants apply [directly to the IDRC portal](#). Deadline: **August 31, 1pm ET**. Guidelines available [here](#).

**Reminder: Innovation Catalyst Grant** is an entrepreneurial fellowship designed to support recent graduates (Master’s or PhD) in STEM disciplines, providing a 2-year runway to develop and commercialize
innovative, science-based products and services that contain a hardware component. For further information, please contact Miranda Stahn at Innovate Calgary. An Expression of Interest must be submitted by August 31.

Did You Know

The Science Research and Innovation Newsletter (SRIN) is moving to Marketo in late fall. Please note if you have unsubscribed to any Marketo email (e.g., published emails from the President or Dean) you will not receive the newsletter. If you think this might apply to you, please reach out to sci.ad.admin@ucalgary.ca

F2022 Special Topics Courses for Science Grad students

Please see our new (or relatively new) F22 graduate courses for your consideration. Please contact sci.grad@ucalgary.ca for information.

SCIE 699.01 Communication & Effectiveness This course develops skills in communication and effectiveness. Students learn about good visualization and science storyboarding. Using this framework, they write a research proposal and give an oral presentation. Students practice collaboration considering diversity in personality and culture. They reflect on career planning as they prepare a resume and CV. They consider their strategies to achieve their career goals, and strive to improve effectiveness skills, such as time management. Course outcomes are a research proposal for the Graduate Awards Competition, a resume, and a Three-Minute-Thesis (3MT) presentation. Tuesday and Thursday, 9:30am to 10:45am in ENA 101.
Prerequisite: Consent of the Faculty
Students who wish to register for this course should contact the Graduate Science Centre

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. 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. Tuesday, 12:30-3:20pm; Instructor: Jennifer Adams

W2023 Special Topics Courses for Science Grad students

Law 693.02 Law, Science, and the Regulatory State This course will provide students with a theoretical and practical understanding of how law and science operate in the Canadian regulatory state, with a particular focus on environmental law and policy. Substantively, the course touches on constitutional law, administrative law, and
environmental law, as well as the norms and principles of the scientific method. The first part will provide a basic understanding of democratic governance in Canada, including the separation of powers and how laws and regulations are passed. This part will also provide an overview of the scientific method and the role that science has come to play in modern democracies. Part II is more substantive and sets out in detail which level of government has jurisdiction over which aspects of the environment. We will consider federal, provincial, municipal, territorial, and Indigenous governments and jurisdiction. Drawing on the concepts and principles from Part I, Part III will introduce students to some of the unique features of environmental law and policy and, applying a case study approach, will illustrate the various opportunities and challenges for science to inform and influence its development and implementation. The course will end with student presentations based on group work. A planned key feature of this course is the opportunity for interdisciplinarity: the course will be offered to J.D. students but also graduate students in science and public policy. **Tuesday and Thursdays, 10 am to 11:45 am, Jan 30-April 14, 2023. Instructor: Martin Olszynski**

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.