**Science Research and Innovation Newsletter – March 7, 2022**

**Graduate Seminars**

**GEOS** MSc Final Presentation: “Time-lapse VSP monitoring of CO₂ sequestration at the CaMI Field Research Station” by Brendan Kolkman-Quinn (Supervisor: Dr. Don Lawton) on **Tuesday, March 8, 2022, from 9:00-10:00am**. Please contact the Geoscience Department for zoom details (geoscience@ucalgary.ca)

**GEOS** MSc Final Presentation: “Assessing the relationship between localized hydrogen sulphide (H₂S) distribution and regional burial and uplift history within the Lower Triassic Montney Formation, northeastern British Columbia, Canada” by Samantha Mackie (Supervisor: Dr. Per Kent Pedersen) on **Friday, March 11, 2022, from 9:00-10:00am**. Please contact the Geoscience Department for zoom details (geoscience@ucalgary.ca)

**Seminars**

**PHAS/CHEM** Candidate Research Presentation- CRC Quantum Chemistry on CRC Quantum Computers. Candidate: Dr. Nike Dattani on **Tuesday, March 8, 2022, from 10:00-11:00am**. Please contact the Physics and Astronomy Department for zoom details (phasoffice@ucalgary.ca)

**PHAS/CHEM** Candidate Teaching Presentation- CRC Quantum Chemistry on CRC Quantum Computers. Candidate: Dr. Nike Dattani on **Wednesday, March 9, 2022, from 10:00-11:00am**. Please contact the Physics and Astronomy Department for zoom details (phasoffice@ucalgary.ca)

**SSE** Schulich Research Talks: “Human-Robot Interactions in Medical Robotics” by Dr. Jay Carriere (Department of Electrical and Software Engineering, UofC) and “Towards close physical human-robot interaction” by Dr. Marie Charbonneau (Department of Mechanical and Manufacturing Engineering, UofC) on **Wednesday, March 9, 2022, at 12pm**. Please contact Schulich School of Engineering for details (schulichresearch@ucalgary.ca)

**PHAS/CHEM** Candidate Research Presentation- CRC Quantum Chemistry on CRC Quantum Computers. Candidate: Dr. Fabjian Pavosevic on **Thursday, March 10, 2022, from 10:00-11:00am**. Please contact the Physics and Astronomy Department for zoom details (phasoffice@ucalgary.ca)

**PHAS** Physics University Physics Seminar Series (PUPSS) Colloquium: “The Electron-Ion Collider: A major new scientific facility to probe the heart of nuclear matter” by Dr. Garth Huber (Department of Physics, University of Regina) on **Thursday, March 10 at 2:00pm**. Please contact the Physics and Astronomy Department for zoom details (phasoffice@ucalgary.ca)
**PHAS/CHEM** Candidate Teaching Presentation- CRC Quantum Chemistry on CRC Quantum Computers. Candidate: Dr. Fabijan Pavosevic on Friday, March 11, 2022, from 10:00-11:00am. Please contact the Physics and Astronomy Department for zoom details (phasoffice@ucalgary.ca)

**BISI** Ecology and Evolution Biology Seminar: “Known Unknowns” - Targeted analyses and evidence-based approaches to mending the “leaky pipeline” of Black scientists in Canada by Dr. Evelyn Asiedu (Postdoctoral Research Fellow, Thompson Rivers University) on Friday, March 11 at 12:00pm. Please contact the Biological Sciences Department for zoom details (biosci@ucalgary.ca)

**MTST** PIMS Geometric Analysis Seminar: “The Neumann problem in graph Lipschitz domains in the plane” by Dr. Virgina Naibo (Department of Mathematics, Kansas State University) on Friday, March 11, 2022, at 3:00pm. Please contact the Mathematics and Statistics Department for zoom details (mathadmin@ucalgary.ca)

**PHAS/CHEM** Candidate Research Presentation- CRC Quantum Chemistry on CRC Quantum Computers. Candidate: Dr. Ryan MacDonell on Monday, March 14, 2022, from 2:00-3:00pm. Please contact the Physics and Astronomy Department for zoom details (phasoffice@ucalgary.ca)

**PHAS/CHEM** Candidate Teaching Presentation- CRC Quantum Chemistry on CRC Quantum Computers. Candidate: Dr. Ryan MacDonell on Tuesday, March 15, 2022, from 3:00-4:00pm. Please contact the Physics and Astronomy Department for zoom details (phasoffice@ucalgary.ca)

**MTST** Mathematical and Computational Finance Laboratory (MCFL), Lunch in the Lab series: “Predicting Market Movements with Machine Learning” by Luca Lalor (Department of Mathematics and Statistics, UofC) on Tuesday, March 15, 2022, 12:00 – 1:00pm. Please contact the Mathematics and Statistics Department for zoom details (mathadmin@ucalgary.ca)

**PHAS/CHEM** Candidate Research Presentation- CRC Quantum Machine Learning. Candidate: Dr. Jens Eisert on Thursday, March 17, 2022, from 10:00-11:00am. Please contact the Physics and Astronomy Department for zoom details (phasoffice@ucalgary.ca)

**GEOS** Howard Street Robinson Lecture: “Is this the oldest known animal fossil? A novel approach to Precambrian metazoan evolution?” by Dr. Elizabeth Turner (Harquail School of Earth Sciences, Laurentian University) on Thursday, March 17, 2022, from 3:30 to 4:30pm. For further information or to register please click here.

**PHAS/CHEM** Candidate Teaching Presentation- CRC Quantum Machine Learning. Candidate: Dr. Jens Eisert on Friday, March 18, 2022, from 10:00-11:00am. Please contact the Physics and Astronomy Department for zoom details (phasoffice@ucalgary.ca)

**Opportunities**

**Parex Resources Innovation Fellowships - 2022-2023**

Launched in 2019 the Parex Resources Innovation Fellowships are for researchers from across the university who are immersed in academic research and community partnerships leading to start-ups or technology advancements based on new discoveries, insight, and innovation. These Fellowships are supported by an endowment from alumnus Wayne Foo and Parex Resources Inc. With the goal of enabling researchers to focus on translating research results into societal impact.

Two types of fellowships are currently available to tenure track/tenured faculty

- Parex Resources Innovation Fellowship (5)
- Parex Resources Visiting Innovation Fellowship (1)

**Deadline:** April 18, 2022, 8:00am **Award:** $20,000 and 1 HCE Teaching Relief for Faculty of Science Faculty

For further information see the attached PDF. To apply click here
Looking to hire a student this summer?
The Science Internship team can help you post a role on the internal University of Calgary and Faculty of Science
Internship Job boards on the Elevate platform. Send an email to science.internship@ucalgary.ca with the following
information and the team will support you in posting your role

1. Position title and description – admin support, research, lab work, etc.
2. Target students – undergraduate, graduate or professional graduate
3. Length of position and ideal start date
4. Hours per week (please note, in order to be eligible for undergraduate internship, positions must be at
least 30hrs per week)

We recommend positions are posted for at least 2 weeks to provide ample time for students to apply. Any
questions regarding the Elevate platform, job postings or the student hiring processes can be directed
to science.internship@ucalgary.ca

Reminder: NFRF Special Call: 2022 Research for Postpandemic Recovery
The goal of this Special Call is to mobilize Canadian-led research efforts in support of a more equitable, sustainable
and resilient postpandemic reality. It will support a diverse portfolio of projects that directly address one or more
of the research priorities outlined in the UN Research Roadmap for the COVID-19 Recovery. Teams must include
a project lead plus a minimum of one co-PI or co-applicant. At least one expert in social, economic, or socio-
economic research and/or implementation science must lead or co-lead the project, and teams are expected to
include international members (with some specific exceptions).

Notices of Intent must be submitted to Research Services in the Convergence portal by 9 am, Tuesday April 19,
2022. Presentations and recordings of the webinars will be available on request via Research Services
at ipd@ucalgary.ca a few days following the sessions.

Reminder: Call for Nominations for 2022-2023 Gallagher Fellowship
This fellowship is funded by the Jack Gallagher Foundation to permit world class scholars to visit and interact with
our researchers over a 1–3-month time period in 2022-2023. Although not required, this is an ideal opportunity for
colleagues on sabbatical leave from their institutions abroad to spend some time at UCalgary. Please see attached
PDF for further information. Contact: Dr. Ben Tutolo (GEOS) Deadline: March 15, 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.

NSERC Arthur B. McDonald Fellowships recognize early-stage academic researchers and enhance their
research capacity (a candidate submitting a nomination in June 2022 would have been hired on or after June 1,
2012). The 2022 competition has not yet been announced – this call is preparation for the University of Calgary’s
internal selection process (NSERC awards up to six McDonald Fellowships each year and nominations must be
endorsed by the President). Those who wish to submit a nomination for this competition can do so until March 18,
2022, by contacting Danielle. NSERC details here.

Nominations for the Faculty of Science Awards of Excellence are open. Please consult each individual
award category and terms of reference for details about the submission process, eligibility and other
requirements. Deadline is April 4, 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. Details 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. Details here. Deadline: April 30.

Opportunities – Postdocs and Graduate

Parex Innovation Postdoctoral Fellowships 2022-2023
The Innovation Postdoctoral Fellowships are awarded to postdoctoral fellows with a track record of innovation activities. Innovation activities refers to the translation of research results into societal impact. Working with non-academic research partners, creating a start-up, working with innovation organizations, and engaging with government and not-for-profit organizations on policy development, are all examples of innovation activities.

- **Award:** Each fellowship is valued at $3,000. The fellowship will be paid out as a salary top-up.
- This fellowship is currently only available to postdoctoral fellows in the Faculties of Kinesiology, Medicine (Cummings), Science, Social Work, and the School of Architecture, Planning, and Landscape.
- For Further information see attached PDF. To apply click here
- **Deadline:** April 18, 2022, 8:00am

Eyes High Postdoctoral Match-Funding Program Spring Competition is designed to support UCalgary faculty to recruit and support outstanding postdoctoral scholars. Funding will be awarded on a competitive basis. This program will award partial salary support for postdocs who will be highly competitive for external awards and will help advance UCalgary’s strategic research and innovation plan. This funding is intended for postdocs who will be new to UCalgary at the start of their appointment.

- **Value:** $25,000 per year
- Supervisors may provide their portion of funding from grants, industry partners, donors, or other sources
- **Number:** Up to 25 in 2021/22
- Duration: Up to two years, subject to annual renewal
- **Deadline:** May 6, 2022

2022 Western Canada Water Conference – Fresh Ideas Poster Competition will be held at the WCW conference on September 15th and is targeted towards graduate students and young professionals. Abstracts accepted until May 31. The prize is an all-expenses paid trip the national AWWA competition at the 2023 annual conference (ACE) in Toronto, including free conference registration!

Postdoctoral Scholar Opportunity Athabasca University Research Centre is looking for a Postdoctoral Scholar for Data Quality in Magnetic Data. Applicants should hold a Ph.D. in Astronomy, Physics, or Mathematics,
with a strong background in programming and quantitative/statistical methods. Please see attached PDF for further information.

**Congratulations Graduate**

Congratulations to the Science Award winners at the 2022 Peer Beyond Conference hosted by the GSA and UofC.

**Best Talk Award: 1st place** Laura Sosa Ponce (supervisor: Dr. Vanina Zaremberg) BISI

**Best Posters and Exhibits: 3rd place** Jessica Meyer (supervisor: Dr. Darren Derksen) CHEM

**Faculty Award- Science: Amy Du** (supervisor: Dr. Michael Hynes) BISI

**Faculty Award- Science: Milanpreet Kaur** (supervisor: Dr. Jeff Van Humbeck) CHEM

**Creative Exhibit Award: Janine McCalder** (supervisor: Dr. Casey Hubert) BISI

**Creative Exhibit Award: Owen Brierley** (supervisor: Dr. Christian Jacob) CPSC

Congratulations to Elena Fekete (supervisor: Dr. Andre Buret) BISI on being the recipient of the 2022 ASIP Experimental Pathologist-in-Graduate-Training (EPIGT) Merit Award.

**Did you know**

Drs. Kelly Munkittrick and Fred Wrona’s have written an overview of their UCalgary Bow River Ecosystem Health Assessment Project for the March edition of the Bow River Basin Council Newsletter.

**Lab Safety**

A University of Calgary graduate student recently had a research lab acquired infection that required one of UC’s ‘emergency response protocols’. If you ever need one (and we hope you don’t), you can find them here. You could challenge your research group to find the relevant standard for this incident on ucalgary.ca (hint, it’s called “University of Calgary Post-Exposure Protocol for Biological Hazards”).

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.