

University Divisional Report – Faculty of Science, November 2018

The Faculty of Science (FoS) has the following to report:

Dean's Office:

Dr. Lucy Lee returned from her administrative leave in September. She had a busy year and reported her milestones in <https://blogs.ufv.ca/science/2018/09/19/dr-lucy-lee-returns/>. We thank **Dr. Greg Schlitt** who was acting Dean for the past year and has now taken the position of interim Director Research Services & Industry Liaison for the fall term. FoS was busy during the summer months with various outreach events. The



Science Rocks (SR) 2018 Summer Camp finished up August 17th. This was our 10th year and most successful yet! Over the 6 week period, we welcomed 142 campers from grades 4-7. They enjoyed week long science based demonstrations and activities. The SR Camp Coordinator, **Robin Endelman**, and science faculty members **Dr. Derek Harnett**, **Dr. Alan Reid**, **Dr. Ian Affleck**, **Dr. Cory Beshara** and Biology Lab Technician **Avril Alfred** supervised a camp each. The Science Rocks Team Leaders who attended each of the camps were UFV students, **Marlee Fisher**, **Korissa**

Heibner and **Nathan Enns**. The Canadian Mathematical Society generously donated funds to assist with the costs of the camp. The BC Greenhouse Growers Association and the Clearbrook Kiwanis Club each sponsored a child for a week.

The FoS sent **Nikola Trotsuk**, UFV Physics student, to the London International Youth Science Forum (LIYSF) in London, UK from July 25-August 8th. He joined 500 other leading young scientists from more than 70 participating countries. Nikola continued his adventure by extending his stay by attending the CERN Summer Student Programme in Geneva, Switzerland. His activities can be read on the FoS blog articles at <https://blogs.ufv.ca/science/category/trips/science-in-london/>



Nikola Trotsuk, LIYSF 2018

The Let's Talk Science (LTS) Outreach program is now at UFV <http://outreach.letstalkscience.ca/ufv>. We have now joined other universities from across Canada who connect educators and youth along with outstanding volunteers to deliver a wide variety of meaningful science, technology, engineering and mathematics (STEM) learning experiences to both classroom and community settings. UFV BSc Alumnus, **David Mora Perea**, is UFV's Site Coordinator for this year and Chemistry Professor, **Dr. Jason Thomas**, is the faculty advisor.

SR and LTS were invited to host a display at the Abbotsford International Airshow in August. **David Mora Perea**, Site Coordinator of LTS; **Robin Endelman**, SR Coordinator, **Caroline Majeau**, FoS Dean's Office and 2018 SR Camp Leader, **Nathan Enns** entertained the kids and adults with a few hands on activities and demonstrations.





Over 100 UFV science students, faculty and staff enjoyed pizza, music and door prizes at our 11th Annual Science Social held on September 28th at U-House. Science Student Clubs and Associations were on hand to provide information about their groups. UFV President, **Joanne Maclean** stopped by to visit with the students. Thanks to the event organizers, **Caroline Majeau** and **Janice Nagtegaal** from the FoS Dean's Office and **Karen Cooper** and **Rilla Apostolakis** from the Advising Centre.



Brenna Hay, Bob McDonald & Dr. Lucy Lee, CEW 2018

4th year Biology student, **Brenna Hay** and her supervisor, **Dr. Lucy Lee**, presented at the Canadian Ecotoxicity Workshop (CEW) held in Vancouver earlier this month. Brenna was awarded second place for her poster and received a certificate and a \$400 cheque. They had the pleasure of meeting Keynote Speaker, Bob McDonald, from CBC's Quirks & Quarks.

The 2018 FoS greenSPEAK Seminar Series was kicked off with Biology Professor, **Dr. Alan Reid** on October

11th where he led a walk around UFV's D Building "Swamp".

<https://blogs.ufv.ca/science/2018/10/15/greenspeak-campus-walk/>.

The next installment of the series is with Physics Professor, **Dr. Tim Cooper**, who will be presenting November 15th on "Climate Change &

Global Warming" <https://blogs.ufv.ca/science/2018/10/03/greenspeak-series-climate-change/>



The Super Science Club, which is coordinated by **Robin Endelman**, is currently in the process of interviewing students for the upcoming term.

Biology:

On June 26, 2018 a group of 36 UFV students, Biology Professors **Sharon Gillies**, **Gregory Schmaltz**, **Allan Arndt**, **Stephen Thomas** and Biology Department Assistant **Pauleen Nuite** travelled to Eyrarbakki (Iceland), London and Paris.



Biology Field School 2018 (Paris)

They spent 16 days exploring these diverse cities as part of Biology's 2018 Field School.



Biology Field School 2018 (Iceland)

<https://blogs.ufv.ca/science/2018/07/30/welcome-home-travelers-biology-study-tour-2018/> Planning has begun for next year's Clayoquot Biosphere Field School April 27 – May 10, 2019.



Jessica Barclay, 4th Year Biology Student

Jessica Barclay, 4th year UFV Biology student and her Biology Research Professor, **Christine Dalton** appeared in the October 26th edition of the Vancouver Sun <https://vancouversun.com/news/local-news/ufv-researchers-implant-salamanders-with-microchips-to-track-movement>

As part of her undergraduate degree, Jessica has taken on an independent research project with her professor by studying the northwestern salamanders.

Math & Stats

The Data Analysis Certificate (DAC) program has had a surge in popularity this year with 16 students enrolled, and 11 of these planning to do the Co-op option. For next year, we have over 70 applicants, many of whom are foreign students.

Professors **Stan Manu**, **Kseniya Garaschuk**, and **Vanessa Radzimski** (our Math Ed specialists) are planning to organize an annual Indigenous Math Education conference that will be hosted by the Math & Stats department on the Friday of Reading break each year at CEP. Plans are under way now to secure speakers and facilitators for the one coming this February 22, 2019.

Dr. Stan Manu has been visiting the Nuxalk College in Bella Coola to provide a section of MATH 105 to about 30 future schoolteachers on three weekends. **Dr. Cynthia Loten** and the Math Mania Team are back in full swing. They hosted their first event of this year on October 3rd at Vedder Elementary School, Chilliwack. **Dr. Ian Affleck** as well as being the head of the Department of Mathematics & Statistics, is also the current Chair for the articulation committee for Mathematics and Statistics of the BC Council on Admissions and Transfers (BCCAT). **Dr. Kseniya Garaschuk** is busy not only as an instructor in the Math & Stats department, but also as Editor in Chief of "Crux Mathematicorum", an educational journal published by the Canadian Mathematical Society that is internationally respected as a source of unique and challenging mathematical problems.

Chemistry

Dr. Cory Beshara had a manuscript published in the Canadian Journal of Chemistry, <https://doi.org/10.1139/cjc-2018-0407> Shustov GV & Beshara CS (2018) Inside-Protonated 1-Azaadamantane. Computational Studies on the Structure, Stability and Generation.

Dr. Noham Weinberg was promoted to full professor as of June 2018.