

Monthly Report to the Provost – Faculty of Science

The Faculty of Science (FoS) has the following to report for the month of **September 2020**:

Dean's Office:

The Honourable Rosa Galvez, Canadian Senator, has accepted our invitation to present at an upcoming FoS Dean's Seminar Series to be held in November <https://ufv.ca/science/deans-office/science-speaker-series/>. Her presentation will be screened in advance of the Q & A period to be held on November 12 from 10-11 am via Zoom. Dr. Charles Ikejiani, Orthopedic Surgeon from the Royal Victoria Hospital, Barrie Ontario has also accepted our invitation to present later this fall. It's interesting to note that Dr. Ikejiani was **Dr. Lucy Lee's** very first honours thesis student (at Acadia University in 1988/89).

Dr. Lee gave two presentations to grade 10 students at Abbotsford Christian School via Zoom on Monday Sept 21, relating to the salmon life cycle ("Life of salmon") and on their use of olfactory cues and the use of olfactory cell cultures for research ("Smelling your way home").

Each year the FoS invites all new and returning science students for an evening of fun to visit with classmates, science faculty and staff while getting information on the science related student groups here at UFV. This year we are hosting an online Science Welcome Week, October 5-9. Each day we will feature a series of UFV science student organizations and drawing for daily prizes which have been donated by each of our science departments.

<https://blogs.ufv.ca/science/2020/09/11/science-welcome-week-oct-5-9/>

Voting is underway for two Science Faculty Council Student Representatives for 2020/2021. We have 8 candidates. Voting will close on Friday, October 2 at 4:00 pm.

Biology Department:

Members of the department of Biology have been busy preparing for the face to face laboratories that started this fall term amid COVID-19, in both the Abbotsford and Chilliwack campuses. Technicians, lab instructors and several faculty put extra efforts to make this return to class as seamless and safe as possible.

Dr. Carin Bondar completed a Condensed University Block Experience (CUBE) course in Science Communications. Twenty-one students completed the 2 week accelerated course earlier in September. Dr. Bondar initially offered the course this summer term attracting a full complement of science students.

Chemistry Department

Technicians, Lab Instructors, sessionals and regular faculty were also very busy this past summer getting ready for their face to face offerings of labs which started safely this term. Additionally, **Dr. Linus Chiang** is busy despite the restrictions of COVID-19 and his students have begun to do research after shutting down the research lab for the summer months, and are now working in the lab under strict safety guidelines. See

<https://chianglabadventures.weebly.com>

Former students **Warren Vandeleven** and **Kaeden Teindl** started graduate studies in Chemistry at SFU and UBC respectively.

Mathematics & Statistics Department

Keara Parsons is our new Let's Talk Science (LTS) coordinator this year. LTS is a nationally coordinated and funded program that brings together undergraduate student volunteers and K-12 students in our communities to share their interests in STEM. **Dr. Gregg Schlitt** is our Let's Talk Science Site Supervisor and along with Keara, are coordinating the recruiting of volunteers for LTS this year.

School of Land Use and Environmental Change (SLUEC)

SLUEC students, **Donovan Toews** and **Michelle LeFebvre**, were recently featured in Skookum on the work they are doing with Stave Falls Elementary. The article, '[Planting Seeds](#)' is available online.

CityStudio Abbotsford has now relocated to the Centennial Building in the heart of historical Abbotsford. While the new space is awaiting the time when it's safe to welcome the students, the work of CityStudio continues with projects this fall. **Dr. Afia Raja's** Geography class is working closely with the City in the field of Data Analysis and **Dr. Cherie Enns'** class is engaged in an urban planning class that conducts best practices research and case studies in the area of repurposing public spaces using the equity, inclusivity and social justice lens. Read full article from UFV Today at <https://blogs.ufv.ca/blog/2020/09/citystudio-abbotsford-finds-new-home-in-historical-downtown/>

Sample List of Presentations/Publications (UFV student names underlined> by FoS personnel June-August:

Bollerup, M. "Directions to the Culture Grounds" In *Best Canadian Poetry*, eds. A. Jernigan, M. Dumont, A. Lahey, Biblioasis: Windsor, 2020.

Garaschuk, K. and Jungic, V. (2020) No, We're Not There Yet: Teaching Mathematics at the Time of COVID-19 and Beyond, *Canadian Mathematical Society (CMS) Notes*, September 2020: 52(4).

Jenik, K., Alkie, T., Moore, E., deJong, J., **Lee, L.E.J.**, DeWitte-Orr, S. (2020) Characterization of a Bovine Intestinal Myofibroblast Cell Line and Stimulation Using Phytoglycogen-Based Nanoparticles Bound to Inosine Monophosphate. *In Vitro Cell. Dev. Biol. Anim.* (submitted Sep 29, 2020)

McIntosh, P.D., Neudorf, C., **Lian, O.B.**, Slee, A.J., Walker, B., Eberhard, R., Doyle, R., and Dixon, G. (2020) Late Pleistocene and early Holocene aeolian deposits of Tasmania and their climatic implications. *Quaternary Research*, in press.

Paulen, R.C., Rice, J.M., Ross, M., and **Lian, O.B.** 2020. Glacial Lake Low: a previously unidentified proglacial lake in western Labrador. 2020 Geological Society of America annual meeting (virtual), October 26-30, 2020. Program with Abstracts, in press.

Paulen, R.C., Rice, J.M., Ross, M., and **Lian, O.B.** (2020) Timing and paleogeographic reconstruction of glacial Lake Low in western Labrador. 2020 Geoconvention (virtual conference), <https://geoconvention.com/2020-technical-program-oral-presentations/>. September 21-22, 2020.

Raja, A. (2020) Sustainable Housing Practices – Spatial Analysis of Housing Stress in Corvallis, Oregon. *J. Urban Planning and Development* (accepted)

Shewchuk, C., Ferbey, T., and **Lian, O.B.** (2020) Detecting porphyry Cu-Mo mineralization using major oxides and pathfinder elements in subglacial till, Highland Valley mine area, south-central British Columbia. In: *Geological Fieldwork 2019, British Columbia Ministry of Energy, Mines and Petroleum Resources*, British Columbia Geological Survey Paper: 2020-01, 169-187.

Talvila, E. (2020) The Continuous Primitive Integral in the Plane *Real Analysis Exchange* 45(2): 283-326.

Tiendl, K., Gill, H., Sahota, H., Carstensen, A., Kim, J., Chu, D., Ghafourifar, G. (2020) Determining the Digestive Effectiveness and Reusability of Formaldehyde and Glutaraldehyde. *Analyst* (pending re-submission following reviews)

Wolfe, S.A., and **Lian, O.B.** (2020) Timing, rates and geomorphic controls on Holocene eolian loess and dune deposition using multiple chronometric methods, southeastern Cordillera, Alberta, Canada. *Aeolian Research* in review.