

Monthly Report to the Provost – Faculty of Science

The Faculty of Science has the following to report for the month of **January 2020**:

Dean's Office:

Once again, UFV will be sending one science student to London, UK this summer (all expenses paid) to attend the [London International Youth Science Forum](#) (LIYSF). Last year UFV Biology Student, **Isabelle St-Martin**, was the recipient of this two-week adventure. She shared her experience at our Information Session held on January 28th. The deadline for applications is February 25th and the shortlisted candidates will be presenting to our selection panel in early March.

Registration for the Fraser Valley Regional Science Fair (FVRSF) opened on January 8. The Science Fair will be held at UFV on April 1-4. Students from grades K-12 will be competing for cash prizes, awards and scholarships. Students from grades 7-12 will also be competing for a chance to receive an all-expense-paid trip to the [Canada Wide Science Fair](#) (CWSF) to be held in Edmonton, AB May 9-15, 2020. The UFV members of the 2019/2020 FVRSF Committee include **Dr. Lucy Lee**, Dean of Science; **Janice Nagtegaal**, Assistant to the Dean; and **Caroline Majeau**, Administrative Assistant; and from the Department of Chemistry, **Dr. Jason Thomas**, Chief Judge/Ethics Officer; **Dr. Linus Chiang**; and from Biology, **Dr. Nathan Bialas**.

As part of the Dean's Seminar Series, Molecular Biologist, Dr. Adam Ruben, Associate Director of Vaccine Stabilization & Logistics at Sanaria Inc, and standup comedian <http://adamruben.net/> will be giving a seminar on Tuesday February 11 in B101 from 3 to 4:15 pm. <https://blogs.ufv.ca/science/2020/01/08/faculty-of-science-deans-seminar-series-presents-tv-host-comedian-molecular-biologist-dr-adam-ruben-feb-11-3pm-b101/>

Dr. Nancy Turner, an ethnobotanist and professor emeritus from UVic will be discussing the cultural roles of plants at the Gathering Place on Feb 28. This event is co-hosted by the College of Arts and the Faculty of Science.

Dr. Lucy Lee took two weeks of vacation in Ontario but still managed to visit a new biotech company in Waterloo, CellScale for a research collaboration, and also connected with Wilfrid Laurier University research staff for whom she did a pedagogical evaluation for a Developmental Biology Lab Manual. Dr. Lee is also continuing her collaboration with scientists in Norway that was presented on January 24 (see section on publications/presentations on page 3 of this report) by her colleague Dr. Anita Solhaug.

Biology Department:

Dr. Justin Lee, a Limited Term faculty in Biology along with Dr. Lucy Lee are supervising directed studies students Daylan Pritchard and Eric Cho who submitted abstracts to the 2020 World Congress on In Vitro Biology which will be held in June in San Diego, California (see section on publications/presentations below).

Dr. Alan Reid along with Shirley Hardman and Rebekah Bracket are teaching indigenous students through IPK100 and IDS300, Shakespeare garden at CEP participating with stories and First Nation names and themes.

Dr. Alida Janmaat has joined the "Data in Introductory Biological Sciences Faculty Mentoring Group" of Quantitative Undergraduate Biology Education Synthesis (QUBES), an organization funded by the National Science Foundation, and she has been busy with this group. See <https://qubeshub.org/search/?terms=alida>

Dr. Janmaat's student **Donovan Toews** also gave an informal presentation on his invasive plant management plan for Stave Falls elementary during a board meeting of the Fraser Valley Invasive Species Society (<https://fviss.ca/>) last week. Alida is a member of the Board of Directors, along with **Dr. Renee Prasad** from Agriculture.

Biology student, **Shayne Oberhoffner** is happy to report that he was accepted for a graduate program at Wilfrid Laurier University and will start in September.

Chemistry Department

Chemistry lab instructors, **Jane Weber** and **Grant Fritzke**, are working with Chemistry Work-study student **Harveen Dhaliwal** creating more first year chemistry lab instructional videos.

Chemistry student, **Kaeden Teindl**, was also accepted for graduate studies at SFU.

Mathematics & Statistics Department

Professor Vanessa Radzimski has a new manuscript accepted in the Journal of Science, Math & Technol Educ (see section of publications/presentations below). Vanessa, along with **Drs. Kseniya Garaschuk** and **Stan Manu** are busy organizing the second Sq'ep that will be hosted here at UFV on Feb 29.

<https://www.ufv.ca/math/fraser-valley-mathematics-education-sqep/>

School of Land Use and Environmental Change (SoLUEC)

Dr. Jonathan Hughes officially started as Director of the new SoLUEC Jan 2, 2020; joining him, **Amy Huesken**, started as administrative assistant also on Jan 2, 2020.

Dr. Michelle Rhodes hosted the 5th UFV Environment and Planning Networking event at U-House Jan 29 attracting former students and 9 current students enrolled in ENV200. **Professor Patrick Harrison** from Biology also participated in this event as well as several other faculty and staff from SoLUEC.

Dr. Stefania Pizzirani is part of a research team led by Dr. John Bass from UBC that recently was awarded a grant from the India-Canada Centre for Innovative Multidisciplinary Partnership to Accelerate Community Transformation and Sustainability (IC-Impacts) <https://ic-impacts.com/>

The UFV Library held a public celebration and launch of **Dr. Lenore Newman's** new book "Lost Feast" on January 21. Dr. Newman shared readings from her book to a large audience which included the Mayor of Abbotsford, Henry Braun. Lenore also travelled to Victoria and briefed the Premier on the ongoing work of the Food Security Task Force on Jan 27. The Task Force will be releasing their report (see below Dhillon et al.) at the 2020 Agriculture Innovation Day on January 31 at the Tradex. Dr. Lee will be attending this event along with many other participants of the Pacific Agriculture Show.

Sample List of Presentations/Publications (UFV student names underlined) by FoS personnel in past month:

1. Cho ESJ, Braley EF, Kelly HM, Lee PW, **Lee JB**, **Lee LEJ** (2020) Astaxanthin Effects on Salmonid and Shrimp Cells in Vitro. 2020 World Congress on In Vitro Biology, San Diego, CA (submitted)
2. Dhillon P, **Newman L**, and Gupta, A (2020) The Future of B.C.'s Food System: Findings and Recommendations from the B.C. Food Security Task Force. Government of BC.
3. Leung FS, **Radzimski V**, Doolittle E (2020) Reimagining authentic mathematical tasks for non-STEM majors. Journal of Science, Mathematics, and Technology Education. (accepted)
4. Pritchard DT, **Lee JB**, Bols NC, **Lee LEJ** (2020) Use of fish epithelial cell lines to study the actions of nitrite in fish. 2020 World Congress on In Vitro Biology, San Diego, CA (submitted)
5. Solhaug A, Sindre H, Gjessing M, Dahle M, Sandvik M, Eriksen GS, Kristensen T, Ivanova L, Olsvik P, Nowak B, Slattery O, **Lee LEJ** (2020) Development of in vitro models to study environmental factors influencing gill epithelial function. Norwegian Meeting in Toxicology, Beito, Norway. January 23-26 2020
<http://nsft.net/file/nsft-beito-vintermote-programhefte-2020.pdf>