

## Monthly Report to the Provost – Faculty of Science

The Faculty of Science (FoS) has the following to report for the month of **October 2022**:

### Engaging Learners

**Dr. Stefania Pizzirani**, Assistant Professor from the School of Land Use and Environmental Change was invited to speak at the UFV International Student Recruitment Day on October 6. She presented the Environmental Studies program, alongside two other programs (School of Creative Arts and General Studies).

**Dr. Lucy Lee** is hosting a visiting PhD student, **Mari Austad-Brandt**, from the Norwegian University of Life Sciences (NMBU) who is interested in developing cell lines from Coho salmon.

Agriculture students had a great time to engage with faculty (and share great food) at the annual Dr. P's Diwali Party on October 26, organized by **Dr. Renee Prasad** in the CEP campus. Agriculture also held an Open House on October 27 showcasing the various facilities in CEP. **Drs. Javad Hadian, Tadgh O'Leary** and **Lauren Erland** along with Department Admin Assistant, **Michelle Morier**, were on hand providing tours of the Greenhouses and the Barn areas.

### Transforming Lives

All The Departments of Math & Stats, Agriculture Technology, Biology, Chemistry, and the School of Land Use and Environmental Change (SLUEC) were on hand at the first-ever UFV Open House on October 22. In addition to hosting a table, Chemistry opened their doors to their lab and provided demonstrations as did Biology with their presentations, "The wonders of organisms!" and "Oh, look it's really, really small!". **Dr. Ruwan Karunanayaka** from Math & Stats held Sampling and Normal Distribution Demonstrations in the Math & Stats Centre. **Dr. Renee Prasad** from Agriculture Technology presented on "Evidence-based agriculture: what is it and how do we teach it". SLUEC presented, "Re-imagining community planning in the Fraser Valley" with **Dr. Afia Raja** and "Monitoring Water Quality in Fraser Valley Streams" with **Dr. Mariano Mapili, Steve Marsh**, and **Dr. Talha Qadri**. SLUEC also had ongoing water sampling demonstrations throughout the day.

### Building Community

Faculty of Science Associate Dean, **Dr. Ian Affleck** and Science Admin Assistant, **Caroline Majeau**, were interviewed recently by Michael Unger from Science Fair BC for their [Let's Innovate! Podcast](#). Season 3: Episode 302 where they talked about volunteering with the Fraser Valley Regional Science Fair. The interview link released earlier this month is here: <https://www.sciencefairs.ca/website/media/Podcasts/ian-affleck-caroline-majeau.mp3>

Biology Associate Professor, **Dr. Alan Reid**, hosted a walking tour on October 5 for the Reach Gallery Museum's Program 3C: Culture, Coffee, and Cookies. The group toured UFV's Pollinator Garden and the Indigenous Teaching Garden. They learned about how the gardens help the local ecosystem and are teaching spaces for biology, biodiversity, and conservation. <https://thereach.ca/events/c3-culture-coffee-cookies-2/>

Our annual Science Social held Sept 29 was a huge success. A write-up and photos can be seen in <https://blogs.ufv.ca/science/2022/10/17/pizza-prizes-and-squashes-science-social-2022-a-huge-success/>

Biology Adjunct professor, **Dr. Carin Bondar**, was successful in her re-election bid for the School Trustee position in Chilliwack. She is to be lauded for her civic involvement especially as she received the most votes for a Trustee that were cast in Chilliwack <https://www.theprogress.com/news/breaking-progressive-school-board-candidates-take-5-2-majority-in-chilliwack-municipal-election/>

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

Chong, G.L.W., Bohmert, B., Lee, L.E.J., Bols, N.C., and Dowd, G.C. (2022) A continuous myofibroblast precursor cell line from the tail muscle of Australasian snapper (*Chrysophrys auratus*) that responds to transforming growth factor beta and fibroblast growth factor. *In Vitro Cell Dev Biol-Anim* (accepted October 2022).

**K. Garaschuk** and A. Mosunov, Eds. (2022) “Authentic Publications” First Year Math and Stats in Canada <https://firstyearmath.ca/tlresources/>

Hatch-Tocaimaza, D., **Pizzirani, S.**, Post, K., and Martel, J. (2022) Creating Institutional Change for Social and Environmental Justice, Association for the Advancement of Sustainability in Higher Education conference, panel presentation, online.

Leung, E., Tremblay, C., Liao, D., **Huang, L., Sun, S.**, and Ko, J. (2022) Treatment patterns and outcomes of patients with locally advanced vulvar or vaginal cancer in British Columbia (modified). European Congress on Gynaecological Oncology (ESGO), Berlin, Germany. (Presentation, Oct 27-30)

Mahmud, T. S., Ng, K. T. W., Karimi, N., Adusei, K. K., **Pizzirani, S.** (2022) Evolution of COVID-19 municipal solid waste disposal behaviors using epidemiology-based periods defined by World Health Organization guidelines. *Sustainable Cities and Society*, 87: 104219. <https://doi.org/10.1016/j.scs.2022.104219>

**Qadri, S.M.T.**, Shah, A.A., Sahari, S., **Raja, A.**, Yaghmaei-Sabegh, S. and Younis Khan, M. (2022). Tectonic geomorphology-based modeling reveals dominance of transpression in Taxila and the contiguous region in Pakistan: implications for seismic hazards. *Model. Earth Syst. Environ.* <https://doi.org/10.1007/s40808-022-01542-z>

Warner, R., **Pizzirani, S.**, Hunter, K., and Ho, C. (2022). “Achieving Deep Sustainability Through Hands-on Learning”, Association for the Advancement of Sustainability in Higher Education conference, on-demand presentation, online.