

## Monthly Report to the Provost – Faculty of Science

The Faculty of Science (FoS) has the following to report for the month of **November 2021**:

### Engaging Learners

**Dr. Afia Raja**, Assistant Professor from School of Land Use and Environmental Change (SLUEC) invited Senior Abbotsford Planner, Mitchell Comb, from the City of Abbotsford to present to her GEOG 360 Community Planning & Policy class. He shared the latest plans for the McKee Neighbourhood in Abbotsford.

<https://letstalkabbotsford.ca/mckee-peak-neighbourhood-plan>

**Dr. Sandra Gillespie**, Assistant professor of Biology gave a talk on Nov 2 for Science Talks (<https://www.sciencetalks.ca/>) on an important topic for our agricultural community: “Beyond the honeybee: an introduction to native pollinators and their threats”.

### Transforming Lives

The **Chemistry Department** has been approved for the establishment of a Centre for High Pressure Research (CHPR). The mission of CHPR is to foster and coordinate collaborative research and disseminate the acquired knowledge in the field of high-pressure effects on condensed-phase systems.

Associate Professor, **Dr. Cherie Enns**, from the SLUEC is on a team working with Fair Trade Africa to revise their current Children and Vulnerable Adults Protection Policy. She recently completed two advisory roles for a policy project with Plan, Save the Children and the African Committee of Experts (African Union) involving the African Charter on Welfare and Rights of the Child (ARCWC). The second role was with the African Child Policy Forum on a framework for girls’ rights. Although these projects are outside of UFV they speak to the applied research and impact of her PhD research.

### Building Community

Biology Adjunct Professor and Sessional Instructor, **Dr. Carin Bondar**, contributed to two articles this month: Hakai Magazine, “Why Pair Bonding Seabirds Break Up” by Ian Rose <https://hakaimagazine.com/news/why-pair-bonding-seabirds-break-up/>; and MEL online magazine <https://melmagazine.com/en-us/story/doggy-style-animal-kingdom>. She was also interviewed for two podcasts: ‘She’s on Top’ (based out of Toronto) <https://www.shesontop.com/> and another called ‘Bigger than Me’ (based out of Chilliwack) <https://biggerthanmepodcast.buzzsprout.com/>. Both podcast interviews were about her work and her STEM Angels charity <https://stemangels.ca/>.

Science Rocks! Days camp for 12-13 years old students, was successfully held Nov 6 at the Abbotsford campus on the topic of Natural Disasters, but the Nov 20 camp in Chilliwack had to be postponed due to a natural disaster: the big flood of the valley. Registration for the Science Rocks! Days winter semester has opened, and the response rate continues to be remarkable. Our first camp of the year “What Food Can Do!” is on Jan 22 at our Abbotsford campus for kids 9-11 years old. <https://www.ufv.ca/science/science-in-the-community/science-rocks/science-rocks-days/>

This has been an awful year of disasters and on that topic, **Eryn Braley**, a recent graduate of our Biology program researched the effects of increasing temperatures on the metabolic activities of fish cells and was co-author in a recently accepted publication with **Dr. Lucy Lee** in the Journal of Thermal Biology.

Pumputis PG, Braley E, Hamilton ME, Dayeh VR, **Lee LEJ**, Bols NC (2021) Integrity and wound healing of rainbow trout intestinal epithelial cell sheets at hypo-, normo-, and hyper-thermic temperatures. *J Thermal Biol* (accepted Nov 29, 2021).