

Monthly Report to the Provost – Faculty of Science

The Faculty of Science (FoS) has the following to report for **October 2023**:

Engaging Learners

The Environmental Studies program collaborated with the Office of Sustainability to participate in Student Wellness Week. They co-hosted a table on October 12th to discuss eco-anxiety with dozens of students.

Dr. Stefania Pizzirani, Associate Professor of Planning, Geography, and Environmental Studies (PGES), took her GEOG 331 class to the Browne Creek Wetlands in Chilliwack. They studied and worked alongside Natasha Cox, Director of the Fraser Valley Watershed Coalition. Her ENV 310 class visited Abbotsford City Hall, where they met with City Councillor Patricia Ross and Laura Midan, Head of Abbotsford Recycling and Compost, to discuss leadership in governance.

UFV Geoscience Associate Professor **Dr. Scott Shupe**, was a featured speaker at the Science Café hosted by the UFV Library earlier this month. He discussed BC's drought in the aftermath of another hot summer, the Chilliwack aquifer, and the environmental consequences of our changing climate.

Dr. Carin Bondar, a Biology Adjunct Professor, hosted her first Celebrate STEM workshop on October 13 in the Indigenous meeting space at CEP. This program is designed for middle and high-school-aged girls. On the advice from Betty Peters, the director of the Indigenous Student Centre, she invited Carrielynn Victor, a local Indigenous artist and biologist, to join her. The participants received an Indigenous scientific introduction by way of storytelling and learning about the scientific method and how to keep a field notebook. Many of the participants have registered for the next iteration on November 17.

Dr. Alida Janmaat, Biology Associate Professor, wrote an article for the BC Nature Kids, NatureWild entitled, "What Plants Can you identify this summer?" It included a pullout guide to some common BC plants.

<https://naturekidsbc.ca/>

Dr. Lenore Newman, CRC, Associate Professor from PGES and Director of the Food and Agriculture Institute, was an invited keynote speaker at the University of Guelph's Ontario Agricultural College.

<https://www.uoguelph.ca/oac/event/future-thinkers-speaker-series-feat-dr-lenore-newman>

The Agriculture Technology Department is busy planning for its Open House on November 23 in Chilliwack. Visitors will be able to tour the facilities and learn more about the agriculture programs offered. Read more:

<https://www.eventbrite.com/e/agriculture-technology-open-house-tickets-740458500307>

Transforming Lives

Dr. Ian Affleck, Associate Dean, attended the National Indigenous Education Symposium in Regina October 16-18. The Colleges and Institutes of Canada hosted the event. The theme was Operationalizing Reconciliation. It brought together more than 200 college and institute leaders serving Indigenous peoples across Canada.

Dr. Lauren Erland, Director of Berry Horticulture Research and Assistant Professor in Agriculture, is leading an SSHRC-NSERC research proposal, "Carbon-Neutral & Sustainable Year-Round Berry Production Systems for Food Security Applications in Rural Canada". Co-investigators are **Drs. Renee Prasad (Agriculture), Stefania Pizzirani (PGES), Michael Hitch**, Science Dean, **Lenore Newman**, CRC (PGES), and **Bosu Seo** (Economics). **Dr. Pizzirani**

collaborates on the SSHRC-NSERC research proposal, “Stimulating Collective Action to Catalyze Sustainable Agriculture: Towards a more circular, diversified, and inclusive Agriculture at the County level.”

Dr. Olav Lian, Geoscience Professor and Director of the Luminescence Dating Laboratory welcomed **Dr. Sam Woor**, a Postdoctoral fellow who recently completed his DPhil (PhD) at Oxford University (UK). He will join existing postdoc **Dr. Maria Schaarschmidt**, who joined the lab from Australia via Germany a couple of years ago, and undergraduate and graduate students to expand the lab’s research capacity.

Building Community

The Faculty of Science joined other areas from UFV for the second annual UFV Open House held on Saturday, October 21. Faculty and staff from all six departments hosted a table at the event.

Dr. Cherie Enns, PGES Associate Professor, has had a busy month. She attended an IDRC workshop on Oct 4 on writing their research findings as a Canadian and Kenyan team. Read more about the project here: <https://idrc-crdi.ca/en/project/catalyzing-womens-involvement-post-covid-19-recovery-through-agricultural-cooperatives> . Cherie was also invited to present at the International Symposium on Migration and Mobilities, hosted by the University of the Western Cape. The International Symposium on Migration and Mobilities at the University of the Western Cape responds to the evolving need to examine mobilities on various scales through collaborative local and global partnerships and interdisciplinary approaches.

Dr. Stefania Pizzirani, PGES Associate Professor, attended the Food Economy Working Group meeting on October 23rd held at Abbotsford City Hall.

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

Dove, D., Brennan, M., Cory, J. and **Janmaat, A.F.** 2023. Egg cannibalism by larvae of the weed biological control agent, *Neogalerucella calmariensis* *Biocontrol Science and Technology* 33:10, 985-990
<https://doi.org/10.1080/09583157.2023.2255394>

Dzal, Y.A. and Gillam, E.H. 2023. The nose knows: a review of the diversity, form, and function of the external and internal features of the bat nose. *Can. J. Zool.* 00: 1-10 <http://dx.doi.org/10.1139/cjz-2022-0195>

Enns, C., Owour, S., and Pioth, W.K. 2023. *Cities of Contagion: Food Insecurity Challenges of Young South Sudanese Refugees in Urban Kenya: Perspectives on Policy, Intervention, and Innovation*. International Symposium on Migration and Mobilities, Nairobi, Kenya. October 12-16, 2023.

Garaschuk, K. and Ugenti, C. 2023. Tips for New (and Seasoned) Instructors. *CMS Notes*. 55: 4.

Garaschuk, K. 2023. “Assessments, assessments, assessments” *CMS Notes* 55: 5.

Janmaat, A.F., Hinz, C., Kabaluk, T., and Cory, J.S. 2023. Horizontal transmission of *Metarhizium brunneum* conidia from sporulating cadavers to *Agriotes obscurus* adults. *Journal of Applied Entomology* 00, 1–4.
<https://doi.org/10.1111/jen.13189>

Newman, L. 2023. *The aurochs’ banshee wail: farming in an uncertain future*. Future Thinkers Speaker Series: University of Guelph’s Ontario Agricultural College, Guelph, Ontario. October 16, 2023.
<https://www.uoguelph.ca/oac/event/future-thinkers-speaker-series-feat-dr-lenore-newman>