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CHEMISTRY SOCIETY
The 102nd Canadian Chemistry Conference and Exhibition (CCCE) was held in Quebec City, Quebec from June 3-7, 2019. This annual gathering continues to be Canada’s premier conference for chemistry and the chemical sciences.

Our graduate student Maryam Abdinejad with the Kraatz and Zhang lab had three posters titled: "Designing Two New Experiments Based on Original Research for an Advanced Chemistry Laboratory Course", "Using Porphyrin Complexes for Homogeneous Electrocatalytic Reduction of CO2", and "Enhanced Student Learning using Augmented and Virtual Reality in Chemistry Education".

Maryam has won the 1st place poster prize in chemistry education for her poster on using novel technology, such as AR and VR in chemistry.

Congratulations to Maryam! DPES is very proud of you!
Brian Pentz wins IBD Scholarship

Brian is a fourth-year PhD candidate in environmental studies at the University of Toronto Scarborough. He is training to become a social scientist under the supervision of Dr. Nicole Klenk in the Environmental Science in Society Lab.

His research interests are centred on sustainable development, environmental politics, and environmental governance.

Brian recently received the Abbvie IBD Scholarship, a competitive award competition run by Crohn’s and Colitis Canada, a national non-profit organization based in Toronto. The award (worth $5,000) seeks to recognize students with Crohn’s disease or colitis (Brian has Crohn’s) who have found academic success and who have made a positive contribution to their community. Brian is one of ten winners of this year’s national competition.

Congratulations to Brian! DPES is very proud of your achievement!
This semester, a new course, PSCB90H, Physical Sciences Research Experience, was introduced into the curriculum. This new course provides an opportunity for students in 2nd and 3rd year to work with a faculty member on a research project. Students have gained first-hand exposure to current research methods, and share in the excitement of discovery of knowledge acquisition. Here is a photo gallery of the poster presentations of their projects from the students.
Dr. William Gough’s Climate Lab is on the move!

In May 2019, Megan Sheremata, Ph.D. Candidate, attended the International Arctic Science Committee at the week-long Arctic Science Summit Week (ASSW 2019) in Arkhangelsk, Russia as the incoming 2019 IASC Fellow of the Social & Human Working Group. The International Arctic Science Committee (IASC) is a non-governmental, international scientific organization that pursues a mission of encouraging and facilitating cooperation in all aspects of Arctic research.

As an incoming fellow, Megan presented to the IASC Council at their annual business meeting, participated in Social & Human Working Group and Indigenous Inclusion Action group meetings, and presented on her own research on Inuit knowledge of environmental change at ASSW 2019. The fellowship has given her the chance to engage with other fellows and early career researchers and scholars from across disciplines in the environmental science, as well as scholars collaborating with Indigenous communities throughout the circumpolar north.

As a direct result of her engagement with the IASC Marine Working group at ASSW 2019, Megan will attend the Conservation of Arctic Flora and Fauna (CAFF) marine monitoring group meeting this November in Nuuk, Greenland, where she will contribute to creation of the Circumpolar Biodiversity Monitoring Programme’s four-year workplan.
Dr. Yukari Hori (aka Hannah), a former DPES Postdoc, has received a project funding with Dr. William Gough from the National Trade Corridors Fund (NTCF): Northern Call program by Transport Canada. The NTCF Northern Call helps fund for transportation infrastructure projects in the Territorial North (Yukon, Northwest Territories, and Nunavut). The press release went out on August 12.

In this project, her team will work with Dr. Amy Kim at University of Alberta, Dr. Paul arrette at National Research Council Canada, and Dr. Leonard Tsuji at DPES as a project partner. The main goal of the project is to develop a user-friendly and open-access web-based portal that can synthesize and centralize, in one comprehensive network database, climate data and simulations, logistical and operational data, physical, socio-economic and cultural aspects of winter road/trail networks in Canada’s Territorial North. This project will assess the unique ultimodal northern transportation system, specifically regarding modal connectivity and operability of the networks in Canada’s three Territories, mostly in the NWT and Nunavut. This tool will combine an interactive database with map visualization, and this will guide effective decision-making and policy prioritization on the management of winter roads, access roads, and trails in Canada’s Territorial North. Her team will be active in September!
Dr. William Gough’s Climate Lab - Dr. Vidya Anderson

Recent DPES graduate, Dr. Vidya Anderson, has received grant funding from the International Society of Biometeorology and the University of Twente in the Netherlands for a workshop and year-long international project to study the effect of weather and climate change on human, animal, and plant health. The purpose of this project is to investigate novel sensing technologies and to test emerging sensing techniques in the health and meteorology domain. Project participants will research and evaluate novel sensors and platforms for the assessment of weather and climate change on health.

As part of this project, Vidya will use iosensing to evaluate the health effects of weather and climate change, with biosensors for temperature and air pollutants to evaluate how specific applications of green infrastructure can be used to reduce the disproportionate exposure of vulnerable populations to the impacts of climate change and to improve health outcomes. This work builds on her thesis research in complex climate change adaptation and mitigation on the capacity of multiple green infrastructure applications to regulate temperature, reduce air pollutants, and reduce carbon dioxide concentrations.

Vidya will attend the inaugural workshop at the University of Twente in the Netherlands in December. The international project will commence in January 2020.
DPES DIGEST IS LOOKING FOR YOU!

Interested in assisting with the DPES newsletter? Have any great ideas you want to come to light? Send us your resume by September 16th, 2019

Email: karyna.hanif@mail.utoronto.ca
WE ARE HIRING!

CHEM-AID TUTORS WANTED

APPLY BY SEPT 6TH WITH THE FOLLOWING:

1) Statement of interest (max 250 words)
2) Unofficial transcript (having taken at least 2 courses of CHMA10/11, CHMB41/42, CHMB16, CHMB31)
3) Copy of 2019/2020 Timetable (Fall and Spring)
   Note: must commit to a 3 hr shift per week
4) Resume or CV
5) Send application to chemistrydirector@myepsa.ca
The Chemistry Society at UTSC (CSU) is a club that operates on the University of Toronto Scarborough Campus for the purpose of strengthening student success in the various fields of science, particularly Chemistry. Our approach towards student success includes increasing student passion towards science through workshops, seminars, field trips, lab visits and volunteer opportunities.

Who are we?

Upcoming
Refurbished Lab Notebook Sale ($2) September 5 - 13

Contact Us:
@CSUforU