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# Welcoming the New 2023/24 Academic Year!

**Urban Water TMU - September 2023** 

### Welcome back Urban Water researchers! As the new school year commences, we

many new opportunities and initiatives that the academic year will bring! Reminder about SOPs and General Housekeeping

are thrilled to have you return to campus full-time and are excited to explore the

UW researchers are reminded that it is their individual responsibility to familiarize themselves and stay updated with the <u>UW TMU Standard Operating Procedures</u>.

UW researchers are required to input their time in the shared Google Calendars each visit. As an UW researcher, you will have access to the relevant Google Calendar(s)

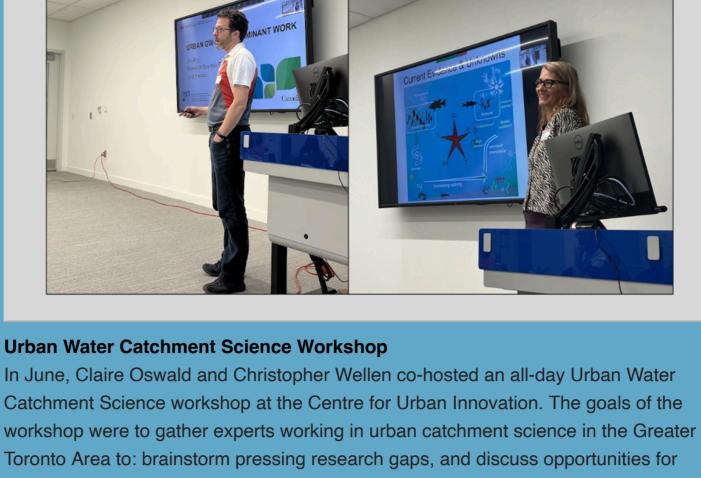
for your space. Please contact us if you cannot access the required Google Calendar(s). Every UW student performing work in the lab(s) is required to have completed a safety walkthrough. If you have not completed a safety walkthrough, please contact

If you no longer require desk space in CUI104A or CUI225, please notify us so that we can re-allocate the spaces as needed.

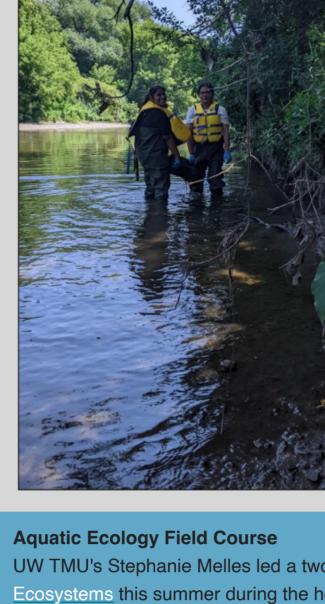
us at urbanwater@torontomu.ca.

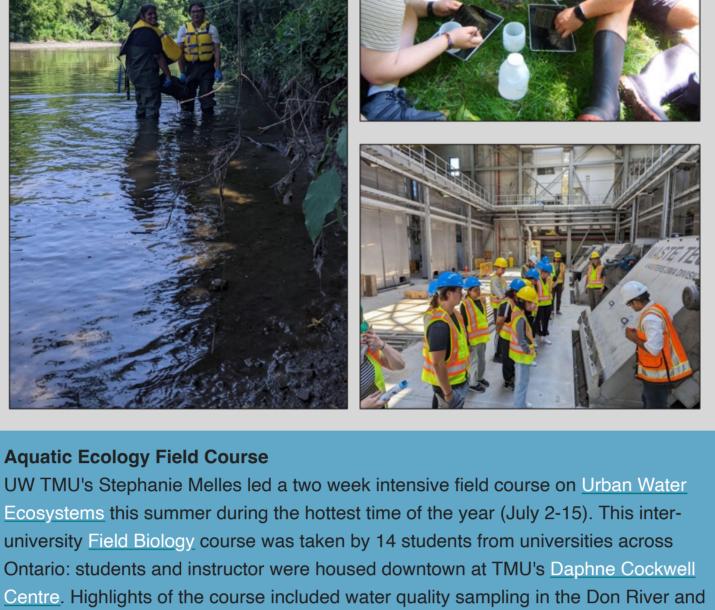
summer?

What were Urban Water researchers up to this



invigorating collaborative multi-sector research. The workshop was very well received, and has follow up actions for collaborative research. More information can be found on the web page linked here. Dr. Jim Roy, Research Scientist at ECCC (and UW TMU Board Member) describing his urban groundwater contaminant research (left); Dr. Stephanie Melles UW TMU researcher discussing her aquatic ecology research (right).





Wilcox), and tours of the RC Harris Water Treatment Plant and Ashbridges Bay Wastewater Treatment Plant. Students carrying out water quality and ecological sampling in the Don River (left); Students processing Hester-Dendy samplers (aka 'bug hotels') streamside. The Hester-Dendy sampler is anchored to the stream bed or suspended in the water column and allows aquatic macroinvertebrates to colonize the spaces between the sampler plates. Dr. Melles deployed these samplers 4 weeks prior to the field course so that bugs would settle and students would have large populations for lab analyses (bottom right); Students touring the Ashbridges Bay Wastewater Treatment Plant (top right).

Rouge National Park watersheds, zooplankton sampling in an urban lake (Lake

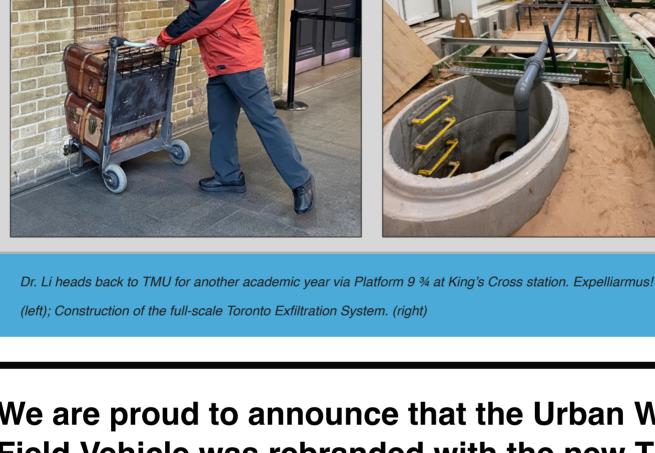


Jorge Leandro (University of Siegen, Germany). In June, the investigation was completed in the UK and now the data analyses continues, being performed by Patelle Fong (TMU) under the supervision of Prof. Li. The project has demonstrated international collaboration in urban drainage research. Drs. James Li and Darko Joksimovic outside of the ICAIR facility (above).

was built at the Integrated Civil and Infrastructure Research Centre at the University

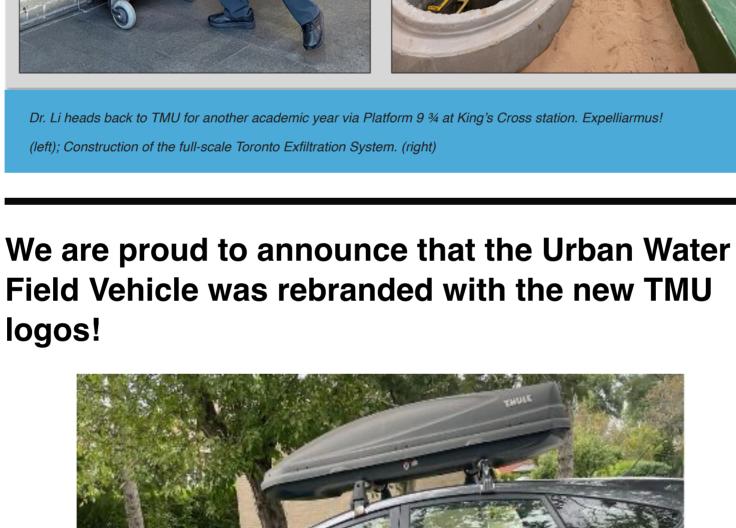
continents: Drs. Darko Joksimovic (TMU), May Chui (University of Hong Kong), and

of Sheffield, UK. The international research team included collaborators from 3



PLATFORM 93

logos!



Dr. Camille Nolasco is joining us on Tuesday, September 12th @ 10-11am in CUI-219 to speak on "The Nitrogen Footprint: A look at the Agri-Food Chain's Nitrogen Losses." Dr. Camille Nolasco hails from the National Institute for Space Research in Brazil. She is a visiting researcher with the Centre for Studies in Food Security at TMU. Please join us on Tuesday in CUI-219! See here for zoom link

Full Members are highly involved in the Centre and are regular contributors to Urban

Water research projects and initiatives. Check out their recent publications below and

Hamza. (2023) Impact of perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic

acid (PFOS) on secondary sludge microorganisms: removal, potential toxicity, and

**Recent Publications of Full Members** 

## a full list of publications on the UW website linked here. Zanina Ilieva\*, Patricia Hania, Roxana Suehring, Kimberley Gilbride, Rania

e0286584.

**Upcoming Seminar** 

their implications on existing wastewater treatment regulations in Canada. Environmental Science: Processes & Impacts, Accepted. lan Young, J Johanna Sanchez, Binyam Negussie Desta, Cole Heasley, Jordan

Tustin. (2023) Recreational water exposures and illness outcomes at a freshwater

Elizabeth Holton, Carla Louw, Edward Archer, Tobias Louw, Gideon Wolfaardt,

beach in Toronto, Canada: A prospective cohort pilot study. Plos one, 18(6),

Barbara Kasprzyk-Hordern. (2023) Quantifying community-wide antibiotic usage via urban water fingerprinting: Focus on contrasting resource settings in South Africa. Water Research, 240, 120110. Basem S Zakaria, Seyed Mohammad Mirsoleimani Azizi, Biplob Kumar Pramanik, Faisal I Hai, Elsayed Elbeshbishy, Bipro Ranjan Dhar. (2023) Responses of syntrophic microbial communities and their interactions with polystyrene nanoplastics

in a microbial electrolysis cell. Science of the Total Environment, 903(10), 166082.

Judith Castillo-Rodriguez, Pedro D Ortiz, Reeda Mahmood, Robert A Gossage, Jaime Llanos, Darío Espinoza, Ximena Zarate, **Bryan D Koivisto**, Eduardo Schott. (2023) The development of Au-titania photoanode composites toward semiflexible dye-sensitized solar cells. Solar Energy, Volume 263, 111955. Cody A. Ross\*, Anna K. Phillips\*, Larissa Gospodyn\*, Claire J. Oswald,

Christopher C. Wellen, Ryan J. Sorichetti. (2023) Improving the representation of

stream water sources in surrogate nutrient models with water isotope data. Science

Tyler J. Harrow-Lyle\*, Wai Ying Lam\*, Erik J.S. Emilson, Robert W. Mackereth, Carl

of the Total Environment, 892, 164544.

P.J. Mitchell, **Stephanie J. Melles**. (2023) Watershed characteristics and chemical properties govern methyl mercury concentrations within headwater streams of boreal forests in Ontario, Canada, Journal of Environmental Management, 345, 118526, https://doi.org/10.1016/j.jenvman.2023.118526. Eric Fries\* and Roxana Sühring. (2023) The unusual suspects: Screening for

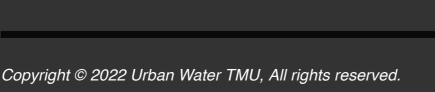
Albert W. König\*, Sarah S. Ariano\*, **Darko Joksimovic**. (2023) Analysis of sampling strategies for pulse loads of SARS-CoV-2: implications for wastewater-based epidemiology. Water Sci Technol, wst2023233. doi: https://doi.org/10.2166/wst.2023.233

**See Our Full Member Publications** 

persistent, mobile, and toxic plastic additives in plastic leachates. Environmental

Pollution, 335, 122263, https://doi.org/10.1016/j.envpol.2023.122263.





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