

The Brace Centre for Water Resources Management is an interdisciplinary research centre of McGill University. Academic staff affiliated with the Centre are drawn from several faculties in the University. They provide expertise in the technical, social, economic, legal and environmental aspects of water management.

The work of the Centre is partially supported through a bequest to McGill University by James Henry Brace. He stipulated that the bequest be used "to provide for and carry on research for the development of methods for reducing the salt content of sea water so that it may be used economically and effectively for irrigation; and for research into methods of irrigation or other means to make desert or arid land available and economically useful for agricultural purposes".

The Centre applies to external agencies for grants and contracts to support its research and teaching activities.

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Centre for Water Resources Management

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**Fourteenth Annual Brace
Research Day
March 17 2016,
12:30-17:00
Faculty Lounge, MS2-022,
Macdonald Stewart
Building
Macdonald Campus /
McGill University**



World Water Day, March 22 2016

Water & Jobs

- 12:30 Welcoming Remarks, **Prof. Van-Thanh-Van Nguyen**, Director of the Brace Centre for Water Resources Management
- 12:45 Assessment of Agricultural Stream Design Used in Maintenance Operations in Quebec, **Esther Volmar**, Civil Engineering and Applied Mechanics
- 13:00 Streamflow Variability in Canada's Pristine Rivers and Its Linkages to Climate Oscillations, **Deasy Nalley**, Bioresource Engineering
- 13:15 N2O Emissions from Onion Fields Cultivated on Organic Soils under Sprinkler Irrigation in Quebec, **Kaitlin Lloyd**, Bioresource Engineering
- 13:30 Permeability Evolution in Carbonate Rocks Subjected to Triaxial Stresses, **Adrian Glowacki**, Civil Engineering and Applied Mechanics
- 13:45 Wormhole Generation in Carbonate Zones During CO₂-Acidized Water Flow - An Added Consideration for Defining Geological Storage Security, **Cyrille Couture**, Civil Engineering and Applied Mechanics
- 14:00 Participatory Modelling of Agricultural Systems in Guatemala, **Julien Malard**, Bioresource Engineering
- 14:15 Characterizing Components of the Organophosphorus Pool in Histosols of the Holland Marsh, **Aidan De Sena**, Bioresource Engineering
- 14:30 Break
- 14:45 Combating Estrogenic Endocrine Disruptors in Untreated Wastewater Irrigation Using a Sustainable Green Technology, **Christopher Nzediegwu**, Bioresource Engineering
- 15:00 Characterization of Silver Nanoparticles in Wastewaters and Understanding their Interaction with the Green Alga, *Chlamydomonas reinhardtii*, **Agil Azimzada**, Chemical Engineering
- 15:15 Use of Super Absorbent Polymers (SAP or hydrogels) and Plantain Peel Biochar (PPB) to Reduce Bioavailability of Cadmium in Potato Plants, **Jaskaran Dhiman**, Bioresource Engineering
- 15:30 Testing Various Subsurface Drainage Prediction Approaches in an Agricultural System Model, **Changchi Xian**, Bioresource Engineering
- 15:45 Remediation of Trichloroethene Contaminated Water Using Rhamnolipid Coated Palladium Doped Nanoscale Zerovalent Iron Particles, **Sourjya Bhattacharjee**, Civil Engineering
- 16:00 Statistical Modelling of Extreme Rainfall Events: A Decision-Support Tool for Rainfall Frequency Analyses, **Truong-Huy Nguyen**, Civil Engineering and Applied Mechanics
- 16:15 Effect of mulching on growth and Yield of chilli under drip fertigation, **Rasika Burghate**, Bioresource Engineering
- 16:30 Closing Remarks and presentation of Certificates: **Prof. Jan Adamowski**, Lilliane and David M. Stewart Scholar in Water Resources, Director - Integrated Water Resources Management Program, Faculty of Agriculture and Environmental Sciences

For further information, contact
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Abstracts can be viewed at www.mcgill.ca/brace/symposia/colloquium