

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



Centre for Water  
Resources Management

**Eleventh Annual Brace  
Research Day  
March 29 2012,  
13:00-18:30  
Faculty Lounge, MS2-022,  
Macdonald Stewart  
Building  
Macdonald Campus /  
McGill University**



## World Water Day 2012 - Water and Food Security

- 13:00 Welcoming Remarks, Professor Van-Thanh-Van Nguyen, Director of the Brace Centre for Water Resources Management
- 13:10 **Keynote Speaker:** Prof Tom Gleeson, The groundwater footprint and global groundwater sustainability, *Civil Engineering and Applied Mechanics*
- 13:45 Adamo Petosa, Examining the Fate of Metal Oxide Nanoparticles in Water Saturated Soil Environments, *Chemical Engineering*
- 14:05 Sogol Rasouli, Stable isotopes of nitrogen and oxygen to pinpoint the source of soluble and particulate nitrogen losses from agricultural fields, *Natural Resource Sciences*
- 14:25 Shooka Karimpour Ghannadi, Super-critical exchanges in shallow flows, *Civil Engineering and Applied Mechanics*
- 14:45 Alaba Boluwade, Uncertainty in Soil Test Phosphorus Simulation (STP) Using Gaussian Sequential Simulation, *Bioresource Engineering*
- 15:05 Min Young Lee, Statistical Modelling of Extreme Rainfall Process in the Context of Climate Change for South Korea *Civil Engineering and Applied Mechanics*
- 15:25 Bing Guo, Positive Correlation between Cellular Levels of Storage Compounds and RNA in Activated Sludge Bacteria, *Civil Engineering and Applied Mechanics*
- 15:45 Vijay Kolinjivadi Examining environment and poverty trade-offs in payments for environmental services (PES) from a watershed-scale perspective, *Bioresource Engineering*
- 16:05 Tala Navab Daneshmand, Effect of High Temperature due to Joule Heating on Biosolids Electro-dewatering Kinetics and Microbial Inactivation, *Civil Engineering and Applied Mechanics*
- 16:25 Olanike Aladenola, Effect of radiation coefficients on reference evapotranspiration estimation in eastern Canada, *Bioresource Engineering*
- 16:45 Hailey Jueun Kim, Multi-site statistical downscaling of daily temperature extremes for climate-related impact assessment studies, *Civil Engineering and Applied Mechanics*
- 17:05 Ahmad S Suhaizi, Assessment of irrigation and soil water capacity on vegetable farm using electromagnetic inductance technique, *Bioresource Engineering*
- 17:25 Simon Dagher, Inter-Basin Water Transfer and its Role in Water Supply for Modern Society, *Civil Engineering and Applied Mechanics*
- 17:45 Nick Carriere, Role of Growth Temperature on the Transport Potential and Viability of the Pathogenic *Campylobacter jejuni* under Model Groundwater Conditions, *Chemical Engineering*
- 18:05 Daniel Gillis, Simulated versus measured transport of diazepam and iopromide by artificial rainfall in a re-packed soil column, *Bioresource Engineering*
- 18:25 Sanaz Alizadeh, New Approach for reducing Hormone pollution in soil, *Bioresource Engineering*
- 18:45 Closing Remarks: Prof. Jan Adamowski, *Inaugural Liliane and David M. Stewart Scholar in Water Resources, Director - Integrated Water Resources Management Program, Faculty of Agriculture and Environmental Sciences*
- 18:55 Reception: Wine and Cheese and presentation of Awards for the best presentations

**Refreshments will be provided throughout the presentations**

For further information, contact  
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Abstracts can be viewed at [www.mcgill.ca/brace/symposia/colloquium](http://www.mcgill.ca/brace/symposia/colloquium)