

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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Centre for Water
Resources Management

**Twelfth Annual Brace
Research Day
April 5 2013,
10:00-14:00
Faculty Lounge, MS2-022,
Macdonald Stewart
Building
Macdonald Campus /
McGill University**



World Water Day 2013- International Year of Water Cooperation

- 10:00 Welcoming Remarks, Professor Van-Thanh-Van Nguyen, Director of the Brace Centre for Water Resources Management
- 10:10 Alaba Boluwade, Modeling the Impacts of Spatial Heterogeneity in the Castor Watershed on Runoff, Sediment and Phosphorus Loss using SWAT: I. Impacts of Spatial Variability of Soil Properties, *Bioresource Engineering*
- 10:24 Vijay Kolinjivadi, Targeting payments for ecosystem services: A reductionist approach for socio-ecological sustainability, *Bioresource Engineering and Natural Resource Sciences*
- 10:38 Daniel Gillis, Factors affecting the catch rate of American lobster, *Homarus americanus*, in the eastern Gulf of St. Lawrence, *Bioresource Engineering*
- 10:52 Julie Anne Ames , Property for the Anthropocene, *Natural Resource Sciences*
- 11:06 Divya Gupta, Minimizing Foodborne Outbreaks from Contaminated Irrigation Water, *Bioresource Engineering*
- 11:20 Naresh Gaj, An analysis of the drainage requirements and hydrology of a sugar cane field in Guyana, *Bioresource Engineering*
- 11:34 Bahareh Asadishad, Inactivation Rates of Selected Gram-Positive and Gram-Negative Bacteria Attached to Metal Oxide Surfaces: Role of Solution and Surface Chemistry, *Chemical Engineering and Civil Engineering*
- 11:48 Mohan Basnet, Transport of Palladium-Doped Nanosized Zero Valent Iron (Pd-nZVI) Particles in a Model Ground Water Environment: Influence of Water Chemistry and Aquifer Grain Geochemistry, *Chemical Engineering and Civil Engineering*
- 12:02 Alejandro Perez-Alvarado, Mixing of a passive scalar emitted from a turbulent jet into a turbulent background, *Mechanical Engineering and Civil Engineering and Applied Mechanics*
- 12:16 Light Lunch
- 12:46 Sai Rajasekar Chandrasekar Rajajay, Effects of Sulfide and Sulfate Ions on Degradation Kinetics of Trichloroethylene by Nanoscale Zero Valent Iron, *Civil Engineering*
- 13:00 Hasina Andriamanamihaja, Erosion and Stream Sedimentation Due To Pipeline Construction in Laterite Soils - Madagascar, *Civil Engineering*
- 13:14 Ali Akbari, Pilot Scale Study of Bioremediation of Petroleum Hydrocarbon Contaminated Fine-Textured Soils from a Sub-Arctic Site, *Civil Engineering*
- 13:28 Vanita Sachdeva, Phosphorus in runoff and leaching potentially mitigated by biochar application in agricultural fields, *Natural Resource Sciences*
- 13:42 Tamer A. Gado, Modeling and Analysis of Non-stationary Flood Records in Quebec, *Civil Engineering and Applied Mechanics*
- 13:56 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*

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