



Centre for Water Resources Management

Brace Displays
February 14 2008, 9:00 - 17:00
Macdonald Stewart Foyer,
Macdonald Campus / McGill University

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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Photos by
Caroline Begg &
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Seventh Annual Brace Research Day
February 14 2008, 9:30-17:00
Macdonald Stewart, Faculty Lounge
Macdonald Campus / McGill University



Schedule

- 9:15** Opening Remarks, Prof. Chandra Madramootoo, *Dean, Faculty of Agriculture and Environmental Sciences*
- 9:25** Keynote Speaker: Professor A.P.S. Selvadurai: Advective Transport in Porous Media: Analytical, Computational and Experimental Approaches. *Civil Engineering and Applied Mechanics*
- 10:10** Coastal Erosion by Waves. Lai Wai Tan, *Civil Engineering and Applied Mechanics*
- 10:30** Environmental Prediction in Canadian Cities: Measuring Montreal and Vancouver's Urban Energy Balance. Eric Christensen, *Natural Resource Sciences*
- 10:50** **Break**
- 11:00** Studying Bacterial Growth Environmental Biotechnology: How to Use Genomic Data. Mohammad Tajparast, *Civil Engineering and Applied Mechanics*
- 11:20** Examining the Importance of Oxygen Tension on Bacterial Adhesion and Migration in Artificial Groundwaters. Felipe Castro, *Chemical Engineering*
- 11:40** From Forest to Lake: An overview of the Effect of Hydroelectric Reservoir Impoundment on CO₂ Fluxes. Marie-Eve Lemieux, *Natural Resource Sciences*
- 12:00** **Lunch (MS2-084)**
- 13:00** Plant Water Status and Soil Moisture Condition as Indicators of Irrigation Needs of Peaches and Grapes in Southern Ontario. Rufa Doria, *Bioresource Engineering*
- 13:30** Removal of Veterinary Antibiotics by a Constructed Wetland. Azfar Hussain, *Bioresource Engineering*
- 13:50** Implementing Scientific Irrigation Scheduling to Improve the On-Farm Water Use Efficiency. Marie Helene Bernier, *Bioresource Engineering*
- 14:10** Reuse of Domestic Greywater for Irrigation of Food Crops. Sara Finley, *Bioresource Engineering*
- 14:30** A Quartz Crystal Microbalance Based Biosensor for Detection of Pathogenic Bacteria in Water. Charles Poitras, *Chemical Engineering*
- 14:50** **Break**
- 15:05** Nitrate and Orthophosphate Reduction from Agricultural Runoff in a Surface-Flow Constructed Wetland. Charlotte Yates, *Bioresource Engineering*
- 15:25** Optimizing Drain Water Reuse in Greenhouses. Moshe Halpern, *Natural Resource Sciences*
- 15:45** Predicting Concentrations of Micropollutants along the Wastewater Treatment and Collection Train: Making a Case for Source Separation. Usman Khan, *Civil Engineering and Applied Mechanics*
- 16:05** Water and Nitrogen Use Efficiency of Corn under Different Water Table Management Condition. Ajay Singh, *Bioresource Engineering*
- 16:25** Estimation of Design Storms in Consideration of Climate Variability and Change. Nicolas Desramaut, *Civil Engineering and Applied Mechanics*
- 16:50** Closing Remarks, Prof. Christophe Pierre, Dean, Faculty of Engineering
- 17:00** Wine and Cheese, Faculty Lounge, Presentation of Competition Awards, Prof. V-T-V Nguyen, Director, Brace Centre for Water

For further information, contact
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Abstracts can be viewed at www.mcgill.ca/brace/publications/reports
Resources Management