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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Sixteenth Annual Brace Research Day

November 8 2017,

13:00-17:00

Faculty Lounge, MS2-022, Macdonald Stewart Building

Macdonald Campus / McGill University

McGill

Presentation schedule

13:00 Welcoming Remarks, **Prof. Jan Franklin Adamowski**, Interim Director, Brace Centre for Water Resources Management; Director, Integrated Water Resources Management Program; William Dawson Scholar

13:15 Water Quality Management in the Holland Marsh, Ontario, **Geneviève Grenon**, Bioresource Engineering

13:30 Developing and evaluating a phosphorus (P) module in RZWQM2 for phosphorus management in tile drained agricultural fields, **Debasis Sadhukhan**, Bioresource Engineering

13:45 Hydraulic characteristics of a coarse grained soil used for drainage experiments, **Naresh Gaj**, Bioresource Engineering

14:00 SMExRain: A Decision Support Tool for Constructing Intensity-Duration-Frequency Relations for Urban Water Infrastructure Design, **Truong-Huy Nguyen**, Civil Engineering and Applied Mechanics

14:15 Are There Nanoplastics in Your Personal Care Products? **Laura Hernandez**, Chemical Engineering

14:30 Feasibility of spectral reflectance indices for mapping water stress and improving agricultural water management, **Samuel Ihuoma**, Bioresource Engineering

14:45 Deciding a suitable sorbent for soil and water contaminant immobilization: An experimental approach, **Christopher Nzediegwu**, Bioresource Engineering

15:00 Break

15:15 Stakeholder-friendly modelling: Tinamït and other tools, **Julien Malard**, Bioresource Engineering

15:30 Detection and fate of engineered nanoparticles in lake waters, **Sarayu Rao**, Civil Engineering and Applied Mechanics

15:45 Stochastic Modelling of Daily Rainfall Process, **Sarah El Outayek**, Civil Engineering and Applied Mechanics

16:00 Development of a Group Built Coupled Physical – Socio – Economic Modelling Framework for Policy Impact Evaluations in Agricultural Watersheds in Developing Countries, **Muhammad Azhar Inam**, Bioresource Engineering

16:15 Role of freeze-thaw and humic acids on the survivability and transport behaviour of Salmonella typhimurium, **Kartikey Handa**, Civil Engineering

16:30 Use of hydrogels and Biochar to Reduce uptake of heavy metals in food crops, **Jaskaran Dhiman**, Bioresource Engineering

16:45 Mitigating the greenhouse gas emission under different agronomic management in a sub-surface drained field using RZWQM2, **Qianjing Jiang**, Bioresource Engineering

17:00 Closing Remarks and presentation of certificates: **Prof. Jan Adamowski,** Director, Brace Centre for Water Resources Management

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