## Poster Session (in Faculty Lounge)

Genotoxicity of MeHg in Wild Mink (*Mustela Vison*) and North American River Otter (*Lutra Canadensis*). CHRISTIANNE LOUPELLE, Natural Resource Sciences

Targeted P Applications Based on Grid Soil Sampling. **PETER ENRIGHT**, Brace Centre for Water Resources Management

Addressing Water Scarcity and Drought in Central Asia due to Climate Change. **CATHERINE SENECAL**, Brace Centre for Water Resources Management

Assessment of Water Stress on Soybean and the Impact of LCO Spray on that Stress. SARA ATTI, Agricultural & Biosystems Engineering

Development of a Quantitative Method to Study Hysteresis Behaviour of Dissolved Ion Transport in Surface Runoff. JACQUES LANGLOIS, Natural Resource Sciences

Maize Residue Breakdown and N Dynamics Under Different Tillage Systems. MAGDA BURGESS, Natural Resource Sciences

Measuring Greenhouse Gas Emissions at the Farm-Scale Using the Nocturnal Boundary Layer Budget Method. LAURA WHITBOL, Natural Resource Sciences

Application of Hyper-Spectral Aerial Remote Sensing for Precision Weed and Nitrogen Management in Corn Fields. **PRADEEP KUMAR GOEL**, Agricultural & Biosystems Engineering

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".

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**Second Annual** 

## GRADUATE STUDENT COLLOQUIUM

## Thursday, March 20, 2003

Raymond Building, Room R2-046 Macdonald Campus of McGill University Ste-Anne-de-Bellevue, Qc



Photo: Peter Enright

## Schedule

09:00	Opening Remarks Dean Deborah Buszard
09:20	Regional Estimation of Floods for Ungaged Medium-Sized Basins in Quebec <i>Nelly Peyron,</i> Civil Engineering & Applied Mechanics
09:40	Tertiary Treatment of Municipal Wastewater Using Floodplain Filtration Technique Sobhalatha P. Kunjikutty, Agricultural & Biosystems Engineering
10:00	Effectiveness of Polyacrylamide for Short-Term Erosion Control on Steep Slopes <i>Mark Partington,</i> Natural Resource Sciences
10:20	Break
10:40	Managing Our Water Resources: The Case for Demand Management <i>Walid Khawam,</i> Civil Engineering & Applied Mechanics
11:00	Modeling Phosphorus Dynamics in Tile Drained Fields Joumana Abou Nohra, Agricultural & Biosystems Engineering
11:20	A New Method for Defining Regional Homogeneity and its Application to Extreme Rainfall Estimation for Ungaged Sites <i>Tan Danh Nguyen,</i> Civil Engineering & Applied Mechanics
11:40	Sustainable Water Management in Mexico City Jamie Carrera, Civil Engineering & Applied Mechanics
12:00	Lunch (Faculty Lounge)
13:00	Effects of an Entomophilic Parasite on an Aquatic Insect Community: An Exercise in Reality Science <i>Emily Wallace</i> , Natural Resource Sciences
13:20	Development of User Interface in GIS for Watershed Management Dr. Arjamadutta Sarangi, Agricultural & Biosystems Engineering

·	13:40	Toward a Theoretical Basis for Ecosystem Engineering Tania Lanphere, Agricultural & Biosystems Engineering
	14:00	Red-Breasted Merganser ( <i>Mergus Serrator</i> ) Brood Movements, Habitat Use and Survival Rates in Eastern New Brunswick <i>Shawn Craik</i> , Natural Resource Sciences
	14:20	Entomological Assessment of Malaria Mosquitoes in Two Regions of Southern Sri Lanka: Is Risk of Contracting Malaria Related to Mosquito Breeding? <i>Angela Goodfellow</i> , Natural Resource Sciences
	14:40	Break
	15:00	A Field Filter to Effectively Manage Agricultural Wastewater Sophie Morin, Agricultural & Biosystems Engineering
	15:20	Combining Crop Growth Model with Remote Sensing Yousef Karimi, Agricultural & Biosystems Engineering
	15:40	Nighttime Measurement of Greenhouse Gases over Agricultural Fields <i>Nathalie Mathieu,</i> Natural Resource Sciences
	16:00	Nitrogen and Phosphorus Leaching as Influenced by Tillage, Crops and Fertilizer Sources <i>You Jiao</i> , Natural Resource Sciences
	16:20	The effect of <i>Bradyrhizobium Japonicum and</i> Methyl Jasmonate (Meja) on Soybean ( <i>Glycine Max</i> ) Nodulation, Nitrogen Fixation and Grain Yield Under Short Season Conditions <i>Fazli Mabood</i> , Plant Science
	16:40	Presentation of Undergraduate Essay Award & Closing Remarks Dr. Vijaya Raghavan, James McGill Professor and Chair, Agricultural & Biosystems Engineering

For further information, please contact:

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Abstracts can be viewed at: www.mcgill.ca/brace/publications/reports