Second Global Workshop on Proximal Soil Sensing

Welcome to Canada/Quebec/ Montreal/McGill

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James McGill Professor & Chair

Department of Bioresource Engineering
McGill University



OUTLINE • Quick Facts — Canada — Quebec — Montreal • McGill University • Macdonald Campus • Faculty of Agricultural and Environmental Sciences • Department of Bioresource Engineering

McGil

CANADA

Quick Facts

Capital: Ottawa

Official languages: English and French

Government: Federation, Parliamentary democracy

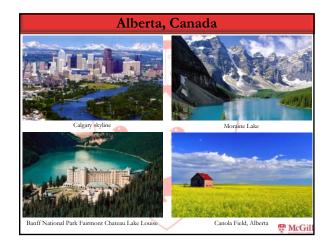
Area: Total 9,984,670 km² (2nd) 3,854,085 mi² Water (%) 8.92 (891,163 km²/344,080 mi²)

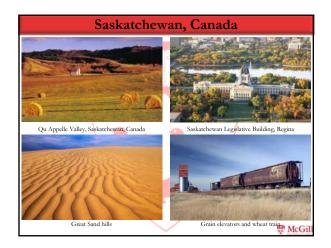
Population: 2010 estimate 34,279,000 (36th in the world)

Currency: Canadian Dollar (\$) (CAD)







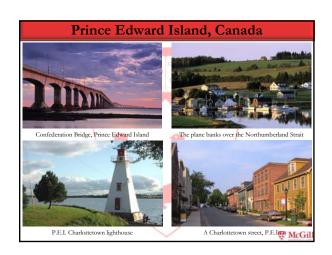






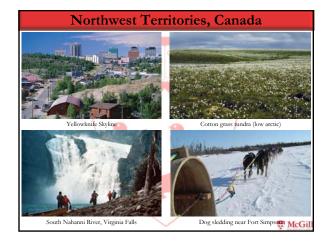


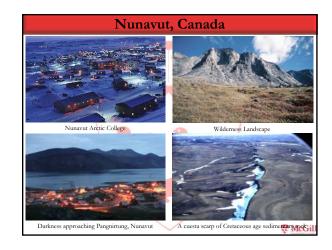














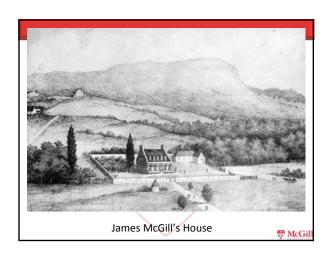




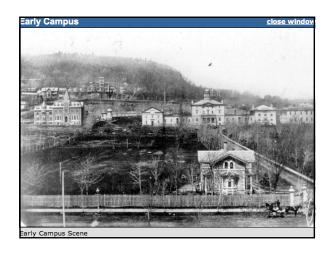


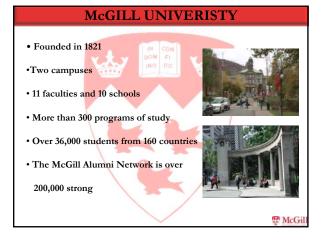


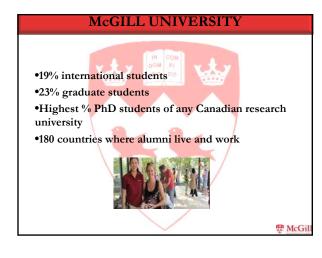


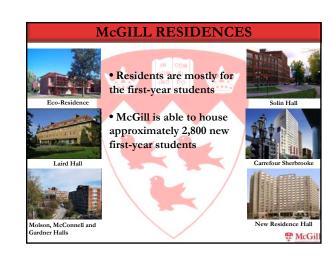


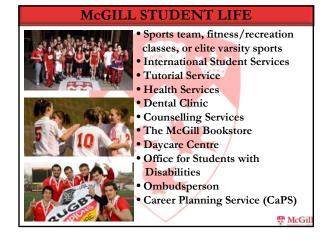






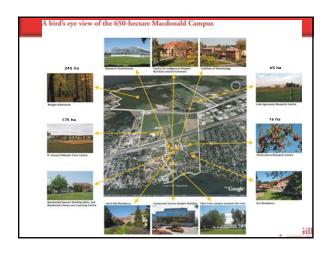




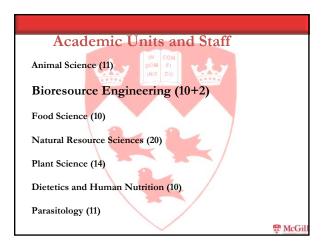


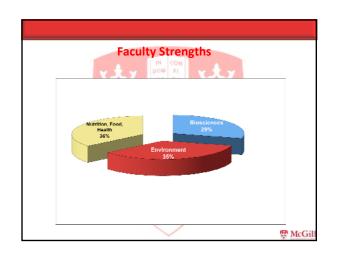


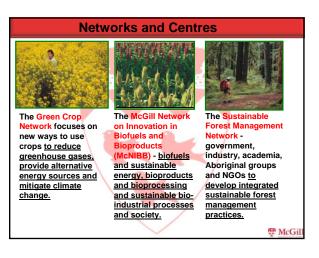


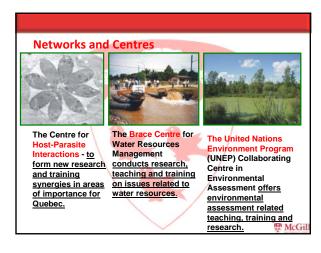


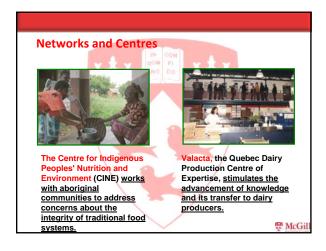
















McGill Institute of Food Security

Birth The Institute builds on the momentum of two highly successful McGill Conferences on Global Food Security

Research Themes

- Plant and Animal Biotechnology
- Biofuels
- Water, land, climate
- Markets & Trade
- Nutrition
- Food Safety

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GRADUATE STUDIES @ McGILL

Bioresource Engineering

- Interdisciplinary program that integrates engineering, design and biological sciences
- Applies engineering principles to the enhancement and sustainability of the world's natural resources

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BIORESOURCE STAFF

Shiv O. Prasher

Chair and Professor in the Department of Bioresource Engineering



- Remote sensing applications in agriculture
- Best management practices for pollution control
- · Remediation systems for contaminated sites
- Machine learning methods in agriculture, machine vision



BIORESOURCE STAFF

Chandra Madramootoo

Dean and Professor in the Department of Bioresource Engineering



- Water resources management
- Irrigation, hydrology
- Soil and water conservation
- Water quality

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BIORESOURCE STAFF

Suzelle Barrington

Professor in the Department of Bioresource Engineering



- · Agricultural structures
- Waste management
- Environment, odour management and control
- Bioremediation



BIORESOURCE STAFF

Edward McKyes

Professor in the Department of Bioresource Engineering



- •Soil mechanics
- Cultivation and tillage
- Machinery, structures
- Water resources
- Environment

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BIORESOURCE STAFF

Vijaya Raghavan

Professor in the Department of Bioresource Engineering



- Heat and mass transfer
- Hybrid drying methods for quality food
- Shelf life extension of fruits and vegetables
- Food processing
- Electrotechnology for biotech applications



BIORESOURCE STAFF

Viacheslav Adamchuk

Associate Professor in the Department of Bioresource Engineering



- •Precision agriculture
- Soil and crop sensing
- Spatial data management, including GIS
- Data acquisition systems



BIORESOURCE STAFF

Michael Ngadi

Associate Professor in the Department of Bioresource Engineering



- Food and bioprocess engineering
- · Heat and mass transfer
- Non-thermal processing of foods, microstructure, hyperspectral imaging
- Food quality and food safety



BIORESOURCE STAFF

Jan Adamowski

Assistant Professor in the Department of Bioresource Engineering



- Director of the IWRM (Integrated Water Resources
- Management) program
- Agricultural/Urban Hydrology
- Water Resources Management



BIORESOURCE STAFF

Grant Clark

Assistant Professor in the Department of Bioresource Engineering



- Ecological engineering
- Scientific computing
- Microbiological systems
- Agricultural systems and Complex adaptive systems



BIORESOURCE STAFF

Mark Lefsrud

Assistant Professor in the Department of Bioresource Engineering



- •Biofuels
- Biomass production
- Controlled environments
- Secondary compoundsProteomics

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BIORESOURCE STAFF

Valerie Orsat

Assistant Professor in the Department of Bioresource Engineering



- Impact of food processing on product quality and functionality
- Extraction methods and by-product recovery
- Engineered systems for functional ingredient production



STUDIES @ McGILL

An international Learning Experience

- McGill is truly Canada's most international university, and certainly one of North America's
- The highest percentage of international students in Canada, numerous faculty members coming from across the world, and many dynamic international partnerships
- Approximately 20 per cent of our master's students, and 30 per cent of our doctoral students come from outside of Canada, hailing from over 150 countries
- International students are eligible to obtain a work permit for up to 3 years after graduation.

http://www.mcgill.ca/gradapplicants/





