

THE SOILED PROFILE



NEWSLETTER DEPARTMENT OF SOIL SCIENCE UNIVERSITY OF MANITOBA “bringing you the latest dirt”



UNIVERSITY
OF MANITOBA

For general inquiries or if you have material to include in the newsletter:

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Past issues of the Soiled Profile are on our
webpage: [umanitoba.ca/afs/soil science/](http://umanitoba.ca/afs/soil%20science/)

1 December 2017

Upcoming:

Friday, Dec 1, 12:30 p.m., Room 346 Ellis Building – Soil Science seminar series. Presenter: Dr. Saman Dharmakeerthi, Dept of Soil Science, University of Peradeniya, Sri Lanka. Title: Organic Carbon Dynamics in Pyrogenic Organic Matter Amended Soils.

Friday, Dec 8, 12:30 p.m., Room 346 Ellis Building – Soil Science seminar series. Presenter: Dr. Alex Koiter, Department of Geography, Brandon University. Title: The Geography of My Academic Path

Wednesday, Dec 20, 12:00 noon, Room 346 Ellis Building – Department of Soil Science annual holiday potluck. There is a signup sheet in the main office. Bring your favourite dish. The band is preparing some holiday tunes. It will be another great holiday celebration. Don't miss out!

Dec 2 to Jan 1 – Winter holiday. University closed.

Department Staff Away:

David Lobb	Sabbatical July 01 – December 31, 2017
Mario Tenuta	Sabbatical July 01 – December 31, 2017

News:

Celebrate World Soil Day, December 5

The Global Soil Partnership is dedicating World Soil Day 2017 to the theme "Caring for the Planet starts from the Ground". Lots and lots of information at this website: <http://www.fao.org/world-soil-day/en/>.

Celebrate Christmas and Mario's 50th Birthday with a Manitoba Kitchen Party

Friday, December 8 from 6 p.m. to 4 a.m. (or when WPS shuts us down), 6 Willow Creek Road, Bridgwater Trails. Dinner at 6:30 p.m. Welcome to bring alcohol, desserts and musical instruments (guitars and piano on hand). Open performance floor all night. Children's movie and craft room. Please no presents.

RSVP by December 4. 204-254-5364. Mario.tenuta@umanitoba.ca or jtenuta@pulsecanada.ca.

Reverse Osmosis System Shutdown

Physical Plant will be performing a shutdown of the reverse osmosis water system at the Fort Garry campus to conduct sanitation maintenance. Reverse osmosis water will not be available during this timeframe. Users are asked to store treated water in advance if it is required. Domestic hot and cold water will not be affected. Questions or concerns regarding this disruption can be directed to Greg Kowk at greg.kowk@umanitoba.ca or 272-1513. For updates, please visit the [service disruption webpage](#).

Paper of the week:

Amiro, B.D., M. Tenuta, M. Gervais, A. Glenn, and X. Gao. 2017. A decade of carbon flux measurements with annual and perennial crop rotations on the Canadian Prairies. *Agricultural and Forest Meteorology* 247:491-502.

Opportunities:

M.Sc. Funding, Bell MTS Innovations in Agriculture, Faculty of Agricultural and Food Sciences.

The vision of this program is to provide students in the Faculty of Agricultural and Food Sciences with enhanced awareness of and research and training opportunities in “Internet of Things” (IoT) applications as they relate to agri-food and bioresource issues. Examples include, but are not limited to sensors on farm equipment, animals, plants and processing facilities, satellite images, weather tracking equipment, cloud computing and intelligent software have the potential to improve on-farm productivity, ensure food quality and source, increase the efficiency of land, water, fertilizer and pesticide use, and to address consumer inquiry, and thereby improve market access and through the increased transparency of farming.

You are invited to submit proposals for graduate student support to me via email by close of business on **Friday, December 1st** for support for graduate students beginning their M.Sc. program in January, 2018. Support provided under the IoT program will be for a maximum of \$10,000 per year for two years, and must be topped up by the advisor to the minimum level of support required by your Department’s regulations, where applicable. An additional \$5,000 in research (i.e. technical, not travel) support will be available for each student. A separate call for graduate students beginning their program in September, 2018 will follow early in 2018. A total of 2-3 projects will be funded in total between the two calls this year.

Your brief (1-2 page) proposal should include the name of the student, an overview of the research envisioned, and a discussion of how the proposed research relates to the Bell MTS Innovations in Agriculture program as described above. Proposals will be reviewed by a committee of Dr. Jared Carlberg, Dr. Martin Scanlon, Associate Dean (Research), and Dr. Jitendra Paliwal, Associate Dean (Graduate Studies). If you have any questions, contact Jared Carlberg, Associate Dean (Academic), Faculty of Agricultural and Food Sciences, 204.474.9395, Jared.Carlberg@umanitoba.ca.

Executive Director, Winter Cereals Canada Inc.

Winter Cereals Canada Inc. is the management organization responsible for the operation of Winter Cereals Manitoba Inc. and the Saskatchewan Winter Cereals Development Commission, both of which represent the growers of winter cereals in Manitoba and Saskatchewan and manage provincially collected levy. A dynamic individual is being sought to assume the responsibilities of Executive Director of Winter Cereals Canada and the two provincial organizations under ongoing management contracts. The successful

candidate will have a good understanding of winter wheat, fall rye and winter triticale production in western Canada.

Duties will include: Day to day office management, maintenance of finances for all three organizations, liaison with Levy Central concerning levy collection, liaison with provincial and federal regulatory agencies, liaison with other levy collection agencies in Manitoba and Saskatchewan and coordination with research institutions funded by both provincial bodies. The executive Director also designs and edits a three issue per year full color newsletter and coordinates annual general meetings and board meetings.

The successful applicant will live in Manitoba or Saskatchewan and may choose to work from a home office environment. The successful candidate is preferred to be a member of or become a member of the Saskatchewan or Manitoba Institute of Agrologists.

This position is equivalent to approximately 60% full time employment. Salary commensurate with experience. Some travel is required.

Interested parties should e-mail applications and resumes to apply@wintercerealscanada.org by **Dec 15, 2017**. Only those candidates selected for an interview will be contacted.

For additional information contact: Winter Cereals Canada Inc., 866-472-4611, WINTER CEREALS CANADA INC., P.O. BOX 689, MINNEDOSA, MANITOBA R0J 1E0, 866-472-4611

Post-doctoral Opportunity, Adaptive Capacity and Resilience, University of Leeds, United Kingdom

Join this interdisciplinary team to lead the collaborative assessment of stakeholder adaptive capacity within case study catchments and the co-design of key adaptive strategies to improve resilience to phosphorus scarcity and pollution. The project has been designed so that it has a strong practical component in interaction with stakeholders across the whole food supply chain, as well as cutting-edge theoretical aspirations for the advancement of resilience and sustainability science. While the project will take place in the UK, the project team is international and you will work closely with social sustainability researchers at our Australian partner institution, the Institute for Sustainable Futures (ISF) at the University of Technology Sydney (co-founders of the Global Phosphorus Research Initiative).

You will be based at the Sustainability Research Institute in the School of Earth and Environment and will be reporting to Dr Julia Martin-Ortega, but will require interaction with the School of Civil Engineering as well as at partner institutions in the Bangor University (Wales), the Agri-Food and BioSciences Institute (Northern Ireland) and the Centre of Ecology and Hydrology (Wallingford). Interactions with ISF will be in person in the UK for some collaborative fieldwork tasks, or remotely via skype/email, with the potential for a visit to ISF in Sydney.

While it is not a requirement for this post, you will have the opportunity to engage with teaching activities at the School of Earth and the Environment and interact with the wide range of researchers at water@leeds, one of the largest interdisciplinary centres for water research in any university in the world, encompassing expertise from across the physical, biological, chemical, social and economic sciences and engineering as well as the arts.

To explore the post further or for any queries, please contact: Dr Julia Martin Ortega, Associate Professor of Ecological Economics, Socio-economics Project Lead, Tel: +44 (0)113 343 9752,

J.MartinOrtega@leeds.ac.uk.

[More information.](#)

Location: Leeds - Main Campus
Faculty/Service: Faculty of Environment
School/Institute: School of Earth and Environment
Category: Research
Salary: £32,548 to £38,833 p.a.
Working Time: 100%
Post Type: Full Time
Contract Type: Fixed Term (for 36 months due to external funding)
Closing Date: **Friday 05 January 2018**
Reference: ENVEE1210

Ph.D. Funding Opportunity, Water Use in Canadian Agriculture

The Canadian Agri-Food Policy Institute (CAPI) is an independent and non-partisan think-tank, based in Ottawa, Ontario, that provides insight, evidence and balance to emerging issues in the field of agriculture and agri-food. CAPI will be launching and conducting, in 2018, a policy research project focusing on water use in Canadian agriculture. CAPI proposes to develop expertise, original tools and strategies to grasp the complexity of water related challenges in agriculture, as well as to address issues arising from the interaction of agricultural production and water use, including both quality and quantity. Because of multi-dimensional nature of water challenges and their implication, CAPI is aiming to create a small dynamic, innovative and transdisciplinary research network specializing in this field and will fund up to 6 Ph.D. candidates whose research focus on the various aspects and implications of water use in the agriculture and agri-food sector. Each selected researcher will receive a research grant up to \$10,000 per year for a maximum of 2 years. This project-based funding requires no physical presence in Ottawa. The outcome of selected projects will contribute to the production of a report by CAPI, which will be published and disseminated broadly to policy makers and various stakeholders.

Applications from any discipline will be considered, as long as the applicant is currently enrolled in a Ph.D. program and that the Ph.D. research of the applicant is related to water in Canadian agriculture. Areas of study of the applicants could include, but are not be limited to: policy, economics, hydrology, agricultural and biological sciences, geography, law, etc.

If you are interested by this opportunity, please submit:

- An up-to-date curriculum vitae;
- A cover letter demonstrating your interest and qualification in the field of water in agriculture (no more than one page); and
- Your proposed research project, including objectives, short background information, methodology and expected outcomes (no more than two pages).

Your application should be sent to Dr. Tulay Yildirim, Director of Policy Research at CAPI (Yildirimt@capi-icpa.ca), no later than **January 15th, 2018**. Selected candidates will be notified before April 30th, 2018. For further information, contact: info@capi-icpa.ca.

Events:

“Rising Up” Graduate Student Conference on Indigenous Knowledge and Research in Indigenous Studies, Mar 9-10, 2018, University of Manitoba

Rising Up is an international gathering held annually and attracts scholars in all forms of Indigenous research with approximately 80 representatives from around the world to showcase their work.

The University of Manitoba Native Studies Graduate Students Association (NSGSA) is hosting the third annual two-day conference for all graduate students to lead the discussion across all disciplines and allow graduates to present their knowledge and research. Due to the interdisciplinary and international character, the Review Committee welcomes a very broad range of topics and approaches. Rising Up 2018 will focus on Indigenous Knowledge and Indigenous Research.

This is a free event, open to all.

Deadline for abstract submission: **December 29th, 2017**. Send online via risingup@umanitoba.ca. Title: 120 character limit. Abstracts: 250 words. Include: Authors First and last name, University, Program or Department, and email address.

International Conference and 69th International Executive Council Meeting of the International Commission on Irrigation and Drainage, Aug 12-17, 2018, Saskatoon, SK

Abstracts are now being accepted and may be submitted under the following themes:

- Theme 1: Competing Water Demands
- Theme 2: Resilient Agriculture - Adapting Agriculture to Climate Change
- Theme 3: Irrigation and Drainage in Perspective

For more information and abstract guidelines, please visit the ICID 2018 Website. ([click here](#))

21st World Congress of Soil Science, Aug 12-17, 2018, Rio de Janeiro, Brazil

Theme: “Soil Science: Beyond food and fuel”

The congress will review the key role of soil science in answering some of the topical key questions regarding future food and water security, environmental protection and climate change mitigation. There will be 8 conferences, 16 interdivisional symposia, 72 symposia organized by the four Divisions of IUSS, 16 symposia organized by the IUSS Working groups, and numerous oral presentations and poster sessions. Around 7,000 participants are expected from more than 100 countries. The organizers are looking forward to receiving your abstracts and to your registration through the 21WCSS online registration system. A conference folder showing all the details is available at the IUSS website.

Important dates:

Abstract submission ends by **January 20, 2018**. Abstract acceptance after March 15, 2018

Early registration ends March 31, 2018. Regular registration until May 12, 2018

More: <https://www.21wcsc.org/>.

Download the congress information: <http://iuss.boku.ac.at/files/21wcsc - meeting information.pdf>.