

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/)

26 January 2018

Upcoming:

Wednesday, Jan 31, 12:30 p.m., Room 346 Ellis Building – Soil Science seminar series. Presenter: Dr. Steve Crittenden, Agriculture and Agri-Food Canada, Brandon. Title: A Soil Quality Story from The Netherlands.

Thursday-Friday, Feb 1-2, Holiday Inn South – Manitoba Soil Science Society 61st Annual Meeting

Department Staff Away:

Terri Ramm Jan 22 – Feb 2

News:

Three Minute Thesis

The Three Minute Thesis competition is a research communication competition that provides a valuable opportunity for master's and doctoral students to come together, get to know one another and share their research with a non-specialist audience.

Graduate students have three minutes to explain their research and its importance with only a single static image or slide to illustrate what they're talking about. A panel of judges drawn from the community will evaluate their presentations on criteria including confidence, ease in understanding, significance of the research, and quality of the presentation itself.

Student competitors are selected by the Faculty of Graduate Studies on the basis of short, simple videos submitted as part of the application process. They are then grouped into sets of challengers who compete in heats before a live audience and preliminary judges. The top three winners from each heat will receive prizes, and the winners of the heats go on to the finals that will be held on March 21, 2018.

The 3MT competition offers an experience that promotes professional development, while also being fun and competitive! The application deadline is **January 29**. Apply online today:

http://umanitoba.ca/faculties/graduate_studies/3mt/apply.html

International Graduate Student Scholarship

The Faculty of Graduate Studies offers scholarships valued at up to the international differential tuition fee amount, to graduate students who:

- (1) are international students (i.e., those in Canada on study permits);
- (2) are enrolled full-time in the Faculty of Graduate Studies in:
 - a. the second year of a Ph.D. program with a two-year fee structure (Plant Science/Soil Science);
 - b. the first year of a Ph.D. program after completing a Master's degree at the Univ of Manitoba;
- (3) are paying the international student differential tuition fee;
- (4) are not recipients of external award funding that pays for their tuition.

If you are planning to transfer from a Master's to a PhD program, or to apply to a PhD program for the Summer 2018, Fall 2018 or Winter 2019 term after April 1st, 2018, you are encouraged to apply and must apply by the April 11th deadline if you wish to be considered for the IGSS for the 2018 -2019 academic year. Even if you are unsure of what you will do, you are encouraged to submit an application. International Students who are unsure if they are eligible to apply are encouraged to submit an application. An assessment of eligibility will be performed once your complete application is received.

Deadline: **April 11, 2018**. Before you apply, please review the information on the FAQ page: http://umanitoba.ca/faculties/graduate_studies/funding/igssfaq.html. Full details: [click here](#).

Opportunities:

Bell MTS Internet of Things Summer Internship, Faculty of Agricultural and Food Sci, U of Manitoba

The vision of the Bell MTS Innovations in Agriculture Program is to provide students in the Faculty of Agricultural and Food Sciences with enhanced awareness along with research and training opportunities in IoT applications as related to agri-food and bioresource issues. Proposals are being accepted for summer internships that will provide a maximum of \$10,000 per project for undergraduate student support plus a maximum additional amount of \$5,000 per project for associated technology support/costs. Bell MTS has graciously agreed to provide additional advice and technical support as needed. Four of these positions will be offered over the summer of 2018 (in exceptional circumstances a winter or fall internship would be considered) and will be awarded on a competitive basis. Note that current graduate students are not eligible for support under this program but students graduating in May and beginning their graduate studies in Fall 2018 are eligible. Successful applicants will be notified by Friday, February 2nd and will be required to provide the name of the student recruited before the end of February to ensure the internship can move forward as scheduled beginning in May.

Proposals (maximum two pages) should be submitted by 4:30 pm on Wednesday, **January 31st** to Dr. Jared Carlberg, Associate Dean Academic (Jared.Carlberg@Umanitoba.ca) and should include the following information:

- Title of Project
- Project Description & Timeline
- Specific Role of Undergraduate Student in Project
- Description of How Project Enhances Student Training in IoT

Product Excellence Agronomist, Bayer Crop Science

Permanent Position; Location: Field/Home-based, Brandon, MB, Regina, SK or Yorkton, SK

This position is accountable to the Product Excellence Manager, and responsible for developing trial protocols as well as establishing and maintaining field trial and Digital Farming sites production for the purpose of evaluation, statistical analysis and summary with the goal of developing agronomic recommendations and identifying targeted seed quality enhancements that will provide the highest return to growers.

Responsibilities:

- Ability to independently conduct field research experiments as assigned
- Responsible for a Minimum of 5 locations
- Develop successful, sustainable and productive relationships with growers and industry
- Take in-depth phenotypic evaluation notes
- Others

Qualifications:

- Masters Degree or Degree plus equivalent experience in Agriculture or related discipline
- Minimum of 2-8 years as an agronomist
- Agronomic expertise and well-rounded technical skills and understanding of research and the seed industry
- Thorough understanding of the InVigor Hybridization System and Seed Technology
- Advanced computer and data analysis skills
- Ability to work in a team as well as operate independently
- Professional written and verbal communication skills
- Skilled in Presentation Skills, Time Management and Managing and Understanding Behaviour differences
- Trained with Forklift (where applicable), First Aid, Dangerous Goods, WHMIS Skills
- Training related to technical aspects of Agriculture specifically as it applies to Breeding/Research

To Apply: visit <https://www.cropscience.bayer.ca/Our-Company/Careers.aspx> and search for positions in the Seeds Operations Department. Application deadline: **2 February 2018**.

Inspector/Auditor, Pro-Cert Organic Systems Ltd.

Canadian family- owned business and managed by Professional Agrologists, with offices in Saskatoon, SK and Cambray, ON. More information: [click here](#).

University of Manitoba Distinguished Dissertation Award

The Faculty of Graduate Studies will offer six awards to graduate students, one in each of the following areas: applied sciences, health sciences, humanities, interdisciplinary sciences, natural sciences, and social sciences. A citation certificate and a cash prize will be awarded recognizing the successful nominee at an award reception, hosted by the Faculty of Graduate Studies.

Eligible dissertations must have been completed (final copies of thesis submitted) between January 1 and December 31 of the previous calendar year. In case there are no qualified candidates in a given

Faculty/School, the Faculty/School selection committee may choose not to submit a nominee. The Faculty of Graduate Studies will verify the eligibility of nominees submitted.

Deadline: **February 18**. More information: [click here](#).

Canada-China Scholars' Exchange Program

Global Affairs Canada and the Chinese Ministry of Education are offering short-term scholarships to support Canadians (citizens and permanent residents) wishing to study abroad in China. Scholarships are awarded for studies, research, language studies or a combination of studies and language studies at participating Chinese institutions.

The award component provided by the Chinese Government Scholarship includes:

- tuition fees at participating Chinese institutions;
- a monthly stipend appropriate to the recipient's status (Approximate values):
 - 2,500 Yuan for undergraduate and language students;
 - 3,000 Yuan for Master's degree students; and
 - 3,500 Yuan for PhD students and senior scholars.
- on-campus accommodation or a subsidy for off-campus accommodation (if permitted); and
- comprehensive medical insurance.

Application deadline: **March 6, 2018**. Full program details: [click here](#)

All inquiries regarding eligibility requirements: admin-scholarships-bourses@cbie.ca or 613-237-4820

University International Program & Project Seed Fund

Total funding of \$15,000 has been allocated for the UIPPSF, with up to \$5,000 per award. Funds requested from UIPPSF must be matched by Department and/or Faculty. Additional funding from other sources, either internal or external to the University will also be desirable.

The purpose of the UIPPSF is to support faculty members in the development of new or existing international initiatives that contribute towards the University's International Strategy objectives. This fund supports the enhancement of meaningful and sustained academic program enhancement, collaborative research and scholarly work with global partners, as well as faculty members' involvement in providing international learning experiences for students. These priorities are included in the University's Strategic Plan 2015-2020 and the International Strategy 2014. Funding is awarded on a competitive basis.

Application Form and Guidelines: http://umanitoba.ca/research/ors/um_funding.html. Forward completed and signed applications electronically to: International Centre, Phone: 204-474-8501, Email: international@umanitoba.ca.

Post-doctoral fellowship in ecosystem ecology and land reclamation, Laurentian Univ, Sudbury, ON

A post-doctoral fellow is being sought beginning May, 2018 to explore carbon storage and greenhouse gas dynamics across reclaimed model industrial landscapes. The Sudbury region- once the world's largest point source of S, Ni, and Cu pollution- will be used as a model system representing gradients of brownfield mine waste management areas to barren and semi-barren smelter-impacted terrestrial, peatland, and aquatic

ecosystems. Over \$2B has been invested in pollution emissions reductions by our industrial partners, which continues to facilitate the return of functioning ecosystems and now allows for managed carbon sequestration. Our partners are on the top 100 carbon emitters list in Ontario, and are actively committed to reductions in GHG footprints. The broader NSERC and Ontario Centres of Excellence- funded research project will examine ongoing reclamation strategies develop and test novel reclamation approaches on polluted industrial landscapes with impaired ecosystem functioning including low net primary production and storage of carbon in soils, sediments, and waters. The PDF will focus on C cycling and associated processes and biological communities primarily in upland (forest) and in actively managed mine waste management systems. They will be paid \$45,000 plus generous benefits per year for 2 years, with potential for a merit-based raise in the 2nd year. The primary supervisors will be the project co-PIs, Nathan Basiliko (Canada Research Chair in Environmental Microbiology) and John Gunn (Canada Research Chair in Disturbed Aquatic Ecosystems) at Laurentian University, and there will be important opportunities to work with other project investigators and collaborators from Laurentian, Trent University, McMaster University, Queens University, Université de Sherbrooke, Université du Québec à Montréal, Cambridge University (UK), Cornell University (USA), Canadian Forest Service, Ontario Ministry of Natural Resources and Forestry, and the Ontario Ministry of Environment and Climate Change. The PDF will be based at the world-class Vale Living with Lakes Centre, which opened in 2011 and consists of two LEEDsPlatinum buildings just meters from the shore of Lake Ramsey and a 5 minute walk to the main Laurentian campus (<http://www3.laurentian.ca/livingwithlakes/>).

Qualifications: PhD in environmental science (e.g. soil or plant science, ecology, environmental chemistry, micrometeorology, etc.) from a Canadian or equivalent university with clear evidence of strong scholarly research and communications abilities; fluent in the English language; ability to work both independently and in collaborative group research settings with other academics and governmental and industrial stakeholders; ability to conduct field work; an unrestricted Ontario driver's license or ability to obtain this quickly. An application should consist of a CV, cover letter or statement of your experience and interests, and contact information for 3 potential referees. For more information please contact Nathan Basiliko: nbasiliko@laurentian.ca.

Mitacs Globalink Research Award

Mitacs is now accepting applications for competitive international research opportunities for UM student travel. Effective January 2018, the Globalink Research Award (GRA) has increased its list of eligible destinations. The award provides \$6,000 for research collaborations between senior undergraduate and graduate students at Canadian universities. Students interested in travelling in Fall 2018 are encouraged to submit their completed applications in May. For further details visit the Mitacs website: [click here](#).

Events:

33rd Conference on Agricultural and Forest Meteorology/12th Fire and Forest Meteorology Symposium/Fourth Conference on Biogeosciences, May 14-18, 2018, Boise, ID

The abstract submission deadline has been extended to **February 2**.

Check out the Call for Papers for each conference and more information [here](#), or go directly to the [abstract submission portal](#).

Soils and Crops Workshop, March 6-7, 2018, Saskatoon, SK

Conference theme: Soils: What's in the Horizon?

For more information and registration please visit: <http://www.usask.ca/soilscrops>

Webinar option available.

AIC 2018 Conference, Apr 23-24, 2018, Guelph, ON

Add your voice to an important discussion of the future of Canadian education in agricultural sciences and technology at AIC's 2018 Conference. The deadline for Early Bird pricing is **February 2, 2018**. Save \$100 per registration.

To register: <https://aicstore.myshopify.com/collections/conference-registration>

Global Symposium on Soil Pollution, May 2-4, 2018, Rome, Italy

This Symposium, jointly organized by the Global Soil Partnership (GSP), the Intergovernmental Technical Panel on Soils (ITPS), the United Nations Environment Programme (UN Environment), the Basel, Rotterdam and Stockholm Conventions and the World Health Organization (WHO) is part of the implementation of the Voluntary Guidelines for Sustainable Soil Management and a direct contribution to the third UN Environment Assembly's resolution on managing soil pollution to achieve sustainable development.

The objectives of the Symposium are:

1. Examine the current scientific understanding of soil pollution and its effects on food production and safety, and human health;
2. Reflect on the impact of land use decisions on soil pollution at the national level;
3. Identify limitations and prioritize key challenges related to remediation;
4. Review existing international frameworks addressing sources of pollution to agricultural land; and,
5. Survey the use of soil thresholds globally.

Deadline for abstract submission | **15 February 2018**

Deadline for registration | 1 April 2018

Download the concept note: [click here](#).