

# 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/)

**2 February 2018**

### Upcoming:

Tuesday, Feb 13, 1:00 p.m., Room 346 Ellis Building – Department of Soil Science, Ph.D. thesis defence, Oscar Molina Tirado. “Identification of *Verticillium* species and control methods for Verticillium Wilt of potato in Manitoba”

Wednesday, Feb 14, 3:30 p.m., Room 130 Agriculture Building – Faculty seminar. Dr. Paul Bullock, Department of Soil Science. “Canopy Reflectance for Agricultural Crop Assessment”. (refreshments served at 3:00 pm).

### Department Staff Away:

Terri Ramm                      Jan 22 – Feb 2

### News:

#### 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](http://umanitoba.ca/faculties/graduate_studies/funding/igssfaq.html). Full details: [click here](#).

### Fire Suppression System Inspections

Vipond Fire Protection company will be performing legislated inspections of the University of Manitoba's fire suppression systems for 2018. This work will require access to all buildings and rooms therein. All Vipond Fire Protection employees will be wearing uniforms as means of identification.

Inspection in the Ellis Building is scheduled for February. During these inspections, all life safety systems will remain active. Therefore, if the alarm goes off, please follow all emergency procedures and evacuate the building.

### New Travel Procedure -- What You Need to Know

The revised Travel and Business Expense Claims Procedure was released on December 13, 2017. The revised Procedure can be found [here](#).

Sessions on the new Procedure are being offered through Learning and Organizational Development (LOD). Register for a session here: <https://umanitoba.gosignmeup.com/Public/Course/Browse>. If you have any questions, please contact Travel Services at [travinfo@umanitoba.ca](mailto:travinfo@umanitoba.ca), or at 480-1001 ext. 1.

### Proposed Steam Plant Shutdown

Sunday, June 3 (1800 h) to Wednesday, Jun 13 (1200 h). During this time, domestic hot water where electric hot water stand-by heaters are available. Air conditioning and normal building ventilation will continue to operate. Steam at 30 psig will be available by Thursday, June 14 (0800 h).

If you have concerns, please contact Greg Kwok, Manager Chief Power Engineer, Physical Plant.

### Paper of the week:

**Amiro, B.D., M. Tenuta, K. Hanis-Gervais, X. Gao, D. Flaten,** and C. Rawluk. 2017. Agronomists' views on the potential to adopt beneficial greenhouse gas nitrogen management practices through fertilizer management. *Canadian Journal of Soil Science* 97:801-804.

## **Opportunities:**

### **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](#).

### **Research Scientist, Integrated Field Sciences R&D, Dow Agrosiences, Edmonton, AB**

[www.dow.com/careers](http://www.dow.com/careers) Competition # 1711875

Plan and implement field research and development programs to validate the field biology and performance of new product concepts; recognize future marketplace needs and influence the development of new product concepts; and provide technical support to maximize sales of new and existing products.

Basic Qualifications: M.Sc. or higher.

#### Preferred Qualifications:

- PhD or higher in Weed Science, Entomology, Plant Pathology, Plant Molecular Biology, Soil Science, Agronomy or related Biological Science.
- In-depth knowledge of the theories and practices of agricultural science.
- Demonstrated proficiency in conducting and publishing refereed research.
- A working knowledge of agronomic production practices, crop protection, biotechnology, molecular biology and/or plant genetics.
- Strong communication skills and demonstrated ability to transfer technology through scientific presentation and publication. Comfortable engaging and interacting with internal (marketing, sales, regulatory) and external (producers, academics, consultants) stakeholders.
- Practical knowledge of education techniques and experience transferring technical information to diverse audiences.

Learn more at [www.dowagro.com/enca/canada](http://www.dowagro.com/enca/canada) and <http://www.dow-dupont.com/about-dow-dupont/agriculture/default.aspx>. The closing date is **February 16, 2018** and applicants must apply online.

#### 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](mailto:admin-scholarships-bourses@cbie.ca) or 613-237-4820

#### Canada-ASEAN Scholarships and Educational Exchanges for Development

Applications are now open for the Canada-ASEAN Scholarships and Educational Exchanges for Development (SEED). The SEED program provides students and researchers from member states of the Association of Southeast Asian Nations (ASEAN) with short-term exchange opportunities for study or research in Canadian post-secondary institutions at the college, undergraduate and graduate levels. ASEAN member states: Brunei Darussalam, Cambodia, Indonesia, Laos (Lao People's Democratic Republic (Lao PDR)), Malaysia, Myanmar, The Philippines, Singapore, Thailand, or Vietnam).

Undergraduate or graduate students from post-secondary institutions in ASEAN are eligible to apply For college and undergraduate applications, a written institutional collaboration and student exchange

agreement MUST be in place at the time of application. For graduate applications, an agreement is desirable but NOT mandatory. All University of Manitoba's applications have to be submitted by the International Centre.

The scholarship value varies depending on the duration and level of study. The scholarship value for students is:

- CAD 8,700 for college, undergraduate or graduate students (Master's and PhD) for a minimum of four months or one academic term of study or research;
- CAD 11,200 for graduate students (Master's and PhD) for a period of five to six months of study or research; or
- CAD 14,400 for undergraduate and college students for a period of eight months or two academic terms of study or research.

Full details: [click here](#). Internal application deadline: Tuesday, **April 3, 2018** 4:30pm DST

International Centre contact: Kennis Fung, International Partnership Officer (Asia and Oceania), [Kennis.Fung@umanitoba.ca](mailto:Kennis.Fung@umanitoba.ca).

### **Ph.D. positions in Environmental chemistry/Analytical chemistry/Biogeochemistry, Université de Sherbrooke, Sherbrooke, QC**

Importance of trace metal bioavailability and management protocols on carbon sequestration and green house gas emissions in brownfield sites. The main objective of the proposed PhD project is to better evaluate how trace metal availability influences key microbial processes contributing to carbon exchange and GHG emissions (CH<sub>4</sub> production and consumption, N<sub>2</sub>O emissions) under divers reclamation practices. 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 barren brownfield mine and mine waste sites to semibarren smelter-impacted terrestrial and aquatic ecosystems.

Good skill in analytical/environmental chemistry is required. Knowledge on biogeochemistry or microbiology would be appreciated. Basic knowledge in ecology would be a plus but is not obligatory.

Scholarship: 18,000 to 21,000\$ per year (for three years).

Starting date: as soon as possible

To apply send CV, M.Sc. official transcript, a cover letter and 2 letters of reference to [jean-philippe.bellenger@usherbrooke.ca](mailto:jean-philippe.bellenger@usherbrooke.ca). Complete files will be reviewed within few days after reception. Positions will be filled as soon as possible.

### **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](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](mailto:international@umanitoba.ca).

## **SOIL Apprenticeships**

**Stewards Of Irreplaceable Land - Grow Food. Sustain the Future. Together.**

Now accepting apprenticeships for 2018. Apprenticeships are available to anyone over 18 years old who is healthy, self motivated and eager to learn. A time commitment of eight weeks is usually required. A full-season commitment is usually preferred. Most apprenticeships involve labor in exchange for room, board and the opportunity to learn, although some farms provide a wage or small allowance.

To find out more: [www.soilapprenticeships.com](http://www.soilapprenticeships.com). For questions: [soilapprenticeships@gmail.com](mailto:soilapprenticeships@gmail.com).

## **Events:**

### **UAV Ground School for Agriculture, Feb 21-22, 2018, Portage la Prairie, MB (Southport)**

Learn the rules and regulations for unmanned aerial vehicles with a focus on data acquisition, processing, analysis for agriculture-related UAV operations. For more information and to register: <https://www.m3aerial.com/uav-ground-school/>.

### **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.

### **Manitoba Institute of Agrologists, AGM, Apr 11, 2018, Portage la Prairie, MB**

Save the date.