

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 now on our
webpage: [umanitoba.ca/afs/soil science/](http://umanitoba.ca/afs/soil%20science/)

19 August 2016

Upcoming:

Friday, Aug 19, 12:00 noon – Prof BBQ. The Soil Science faculty are offering the department a free BBQ lunch. Everyone welcome.

Monday, Sep 5 – Labour Day Holiday. University closed.

Saturday, Sep 10 – Winnipeg Blue Bomber Game at Investors' Group Field. **Parking restrictions will be in effect for W lot starting at 1:30 p.m.**

Department Staff Away:

Bo Pan	Aug 15-26
Brian Amiro	Aug 31-Sep 2
Paul Bullock	Sep 1-2
Tee Boon Goh	Aug 7-22
Annemieke Farenhorst	Aug 8-26
Mario Tenuta	Aug 15-19, Aug 23-26
Francis Zvomuya	Aug 22-26

News:

More media interest in research on antibiotics and manure

Francis and Inoka have yet another media article on their work with antibiotics in manure. It is cross-referenced to the peer-reviewed paper in JEQ, too ... great stuff!

<http://www.agannex.com/sustainability/rethinking-stink-about-antibiotics-in-manure>

Amy Unger's article about the SMAP project

Amy Unger wrote an excellent article for the Western Producer about the SMAP soil moisture project that ran in June and July this year. She provided a perspective on being part of the team that collected and processed the field samples to support this project, while at the same time giving readers an understanding of the broader implications and the challenges of the research. There are some great photos as well. Excellent work!

<http://www.producer.com/2016/08/manitoba-smap-project-measures-collects-tests/>

Paper of the week:

Eragoda Amarawansa, G., Kumaragamage, D., Flaten, D.N., Zvomuya, F. and Tenuta, M. 2016. Predicting Phosphorus Release from Anaerobic, Alkaline, Flooded Soils. *J. Environ. Qual.* 45:1452–1459.

Opportunities:

Research Agronomist, Faculty of Agricultural and Food Sciences, University of Manitoba

The University of Manitoba, Faculty of Agricultural and Food Sciences, and Manitoba Pulse and Soybean Growers Association (MPSG), invite applications for a full-time Research Agronomist. This is a five year term position with an end date of March 31, 2021. This position requires strong knowledge and experience in western Canadian agriculture, leading applied research and working with farmers. The Research Agronomist has leadership responsibility for developing the research program, implementing the plan and reporting on the outcomes of a new applied agronomy research program focused on soybean and pulse crops. The research will be conducted at the Ian N. Morrison Research farm at Carman, MB, and applied research stations located throughout Manitoba. The applied agronomy program will include a broad scope of projects that address best management practices for soybeans, edible beans and field peas. The Research Agronomist will work hands-on in development, design and implementation of field research projects that include research in crop management, crop input evaluation, crop pest management and plant nutrition. The agronomist is expected to coordinate and collaborate with Manitoba's applied research station leaders; supervise multiple staff involved with field research; analyze, interpret and disseminate information from research projects; participate in outreach efforts; communicate freely with farmers, extension staff, agribusiness representatives and crop commodity organizations. A base of funding for the program will come from MPSG, and the agronomist would be expected to apply for additional funding to meet the needs of the program.

Position duties: 75% Research, 10% Extension and 15% Training. This position will report to the Department Head of Plant Science, with their research program overseen by a steering committee comprised of representatives from the University of Manitoba Faculty of Agricultural & Food Sciences and Manitoba Pulse & Soybean Growers.

Preferred Qualifications

- Ph.D. in agronomy or closely related field with experience leading an applied research program
- Documented evidence of preparing research proposals, proof of obtaining funding either as a project leader or a member of a research team; and evidence of collaborations and on-going research with other research leaders or groups
- Training and/or experience in field and laboratory research related to crop management, input evaluations, pest management, plant nutrition, cropping systems and alternative crops
- Experience in the supervision of multiple staff involved with field research

- Documented experience through active collaboration with scientists of other disciplines of agriculture (plant pathology, weed science, soil science etc.)

Salary will commensurate with experience and qualifications. Start Date: As soon as possible.

Closing Date: **August 31, 2016.**

More information: http://umanitoba.ca/cgi-bin/human_resources/jobs/view.pl?posting_id=91273.

Karl C. Ivarson Agricultural Scholarship.

The Agricultural Institute of Canada Foundation's Karl C. Ivarson Agricultural Scholarship is open for applications. Application guidelines and application form are available here:

<http://www.aicfoundation.ca/ivarson-agricultural-scholarship>.

Deadline: **August 31, 2016.**

Graduate Student Opportunities, Department of Soil Science, University of Saskatchewan

Two graduate student positions (1 MSc, \$21,000 per year for 2 years and 1 PhD, \$24,000 per year for 3 years) are available in Melissa Arcand's lab in the Department of Soil Science at the University of Saskatchewan, Canada. This project is funded by the Global Institute for Food Security, NSERC Discovery, and the Canada First Research Excellence Fund. The primary objective of the research is to link plant root traits to soil processes and crop productivity. The students will investigate differences in (i) root system architecture, (ii) rhizodeposition, and (iii) how these factors relate to the development of the microbiomes and biogeochemical functioning within the rhizospheres of contrasting legume and oilseed genotypes using techniques in root imaging, stable isotope labelling, and molecular biology. The research will occur in controlled environments and in the field and in collaboration with plant physiologists, crop breeders, soil microbial ecologists, and soil chemists. Candidates with a BSc or MSc in Soil Science, Plant Science, Chemistry, Microbiology, Environmental Science or related discipline and with strong analytical laboratory and communication skills are encouraged to apply. Interested candidates should submit a CV and unofficial transcripts to melissa.arcand@usask.ca. Start date: January 2017.

Conference Sponsorship Program

On behalf of Dr. Digvir Jayas, Vice-President (Research and International), please be advised that the Call for Applications, updated FACULTY and STUDENT Application Forms, and the CSP Guidelines have been uploaded to the Research website for the **October 17, 2016 deadline** of the Conference Sponsorship Program and Student Travel Support to Competitions.

All can be found at: http://umanitoba.ca/research/ors/funding_opportunities.html.

Events:

40th Annual Conference, Prairie Division, Canadian Association of Geographers, September 23-25, Melfort, SK

Abstracts deadline: **Friday September 16, 2016.**

Registration information can now be found online at: <http://pcag.uwinnipeg.ca/events.html>.

If you have other questions please contact Janna Wilson, Department of Environment and Geography, Clayton H. Riddell Faculty of Environment, Earth, and Resources, University of Manitoba, Phone: 204.480.1817, Email: janna.wilson@umanitoba.ca.

ASA, CSSA, and SSSA Annual Meeting, November 6-9, 2016, Phoenix, AZ

Register by September 21 for the lowest rate. The 2016 Annual Meeting offers a unique environment as ASA, CSSA, and SSSA hosts more than 4,000 scientists, professionals, educators, and students. Register to gain access to all three Societies' sessions, the expansive exhibit hall, additional networking opportunities, and special collaborative sessions all demonstrating the meeting theme, "Resilience Emerging from Scarcity and Abundance."

https://www.acsmeetings.org/register?_cldee=cGF1bF9idWxs2NrQHvtYW5pdG9iYS5jYQ%3d%3d&recipientid=contact-fa2d220b8333db1197e1001279d6310b-39e360cd6a8345b1b6b05d94a681f217

Hotels closest to the Phoenix Convention Center will go quickly. The housing deadline is October 14 so book now to ensure you receive the discounted rate.

https://www.acsmeetings.org/housing?_cldee=cGF1bF9idWxs2NrQHvtYW5pdG9iYS5jYQ%3d%3d&recipientid=contact-fa2d220b8333db1197e1001279d6310b-39e360cd6a8345b1b6b05d94a681f217

The 2016 Program is now available online.

https://scisoc.confex.com/scisoc/2016am/webprogram/start.html?_cldee=cGF1bF9idWxs2NrQHvtYW5pdG9iYS5jYQ%3d%3d&recipientid=contact-fa2d220b8333db1197e1001279d6310b-39e360cd6a8345b1b6b05d94a681f217