

THE SOILED PROFILE



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



UNIVERSITY
OF MANITOBA

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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/)

27 October 2017

Upcoming:

Friday, Oct 27, 12:30 p.m., Room 346 Ellis Building – Soil Science seminar series. Presenter: Dr. Rachel Krause, Assistant Professor in Biology, Canadian Mennonite University. Title: Soil, Public Health, And the World's Most Common Parasites: The Soil-Transmitted Helminths.

Saturday, Oct 28 – Special Event at Investors' Group Field. **Parking restrictions will be in effect for W lot starting at 1:30 p.m.**

Wednesday, Nov 8, 12:30 p.m., Room 346 Ellis Building – Department of Soil Science PhD thesis defense, Ikechukwu Agomoh. “Nutrient Dynamics and Phytoextraction in Soils receiving Long-term Manure Application”

Wednesday, Nov 15, 10:00 a.m., Room 346 Ellis Building – Soil Science seminar series. Presenter: Dr. Vince Palace, Head Research Scientist, IISD - Experimental Lakes Area Inc. Title: Freshwater Oil Spill Research at IISD-ELA.

Wednesday, Nov 22, 12:30 p.m., Room 346 Ellis Building – Soil Science seminar series. Presenter: Dr. Kevin Baron, Solum Valley Biosciences. Title: My Career in Agriculture: Charting A Path Towards Entrepreneurship.

Department Staff Away:

Lynda Closson	Oct 26-27
David Lobb	Sabbatical July 01 – December 31, 2017
Mario Tenuta	Sabbatical July 01 – December 31, 2017

News:

Farewell Jennifer, Hello Valerie

Jennifer Henderson, who has worked in the General Office for the past 4 years, will be moving to a position in the University of Manitoba, Office of Legal Counsel. Jennifer's last day will be next Thursday, November 2. But before she moves to her new position, Jennifer will provide some training to Valerie Smith, who will be Jennifer's replacement through mid-December.

We wish you well, Jennifer. Thanks for all of your contributions to the department these past 4 years. We will miss you and your cheerful demeanor. Please try to squeeze in a visit every now and then. And be sure to book time to come to our holiday potlucks.

CSSS: Pedology Summer School

For the past two years, the CSSS's education and pedology sub-committees have been talking about the possibility of creating a training program dedicating to teach pedology-related skills to Canadian students and professionals. We are now taking actions toward that goal! The brand-new pedology-summer-school committee will have its kick-off meeting on October 31st at noon (Eastern time). If you are interested in putting this summer school together, please contact Jacynthe Masse, PhD, Institut de recherche en biologie végétale, Centre sur la biodiversité, Université de Montréal, 4101 rue Sherbrooke E., Montréal, Québec, Canada H1X 2B2, Phone: 514-343-6111, poste 83158, jacynthe.masse@umontreal.ca. More information: [click here](#).

Call for Nominations for CSSS Council Elections

At the end of 2017, the CSSS Council elected positions of President-Elect and Western Councillor will become vacant. These positions are filled by election (or acclamation if there is only one candidate). They each require consent of the nominee and signatures of (or supporting e-mails from) three current CSSS members who are not current members of council. The duties and responsibilities of these positions can be found on the CSSS website - <http://csss.ca/council-members/council-job-description/>. Candidates for Western Councillor have to be from the western provinces (Manitoba, Saskatchewan, Alberta, British Columbia). Elected councillors are expected to attend the CSSS AGM each year of their term; funds to assist with travel to attend the AGM are available from the CSSS.

Please send (e-mail) nominations by **November 6, 2017** to Amanda Diochon (adiochon@lakeheadu.ca). Elections, if necessary, will be held after that date. For more information about these positions, please contact Joann Whalen (current CSSS President) at joann.whalen@mcgill.ca and Wole Akinremi (current Western Councillor) at Wole.Akinremi@umanitoba.ca.

Lots of Soil Science in the Corn Agronomy Project

The Country Guide recently carried an article on Prairie Corn: Agronomics and Economics. Yvonne Lawley is the Principal Investigator but has lots of Soil Science colleagues involved. [Click to read the article](#).

Opportunities:

Assistant Professor, Precision Agriculture and Field Crop Production, Ontario Agricultural College, Plant Agriculture, Guelph ON

Although the posted application deadline for this position has passed, applicants with experience in remote sensing and agronomy will still be considered if they can apply right away. More information: [click here](#).

Research Scientist – Integrated Cropping Systems, Agriculture and Agri-Food Canada, Fredericton, NB

The Fredericton Research and Development Centre invites applications for a Research Scientist position with specialization in integrated cropping systems. The incumbent's research will focus on improving the productivity and ecological sustainability of intensive agricultural production systems in Atlantic Canada. Arable crop production is central to the agricultural economy in Atlantic Canada. Crop production systems in Atlantic Canada are characterized by short growing season, in a region with elevated insect, disease and weed pest pressure, and on shallow soils in sloping landscapes where excess precipitation events are frequent. The result is a high risk of loss of sustainability in the short term due to crop yield losses, and in the long term due to soil degradation. This position will focus on the development and evaluation of novel integrated cropping systems to improve the productivity and ecological and economical sustainability of intensive cropping systems in Atlantic Canada. The incumbent will examine the effects of management practices (cropping sequence, cover crops, tillage systems, organic amendments, integrated pest management) on crop yield, insect, disease and weed pest pressures, and soil health and how they can be managed at a field or landscape scale.

The intent of this process is to fill one indeterminate full time position in Fredericton, New Brunswick. A pool of qualified candidates may be established and may be used for similar permanent and temporary employment for the location indicated for this process. Closing date: **31 October 2017**. More information: [click here](#).

Technician III, Crop Production Services (Canada) Inc., Rosebank, Manitoba

CPS is seeking a Technician (level III) to join our Research and Development team at our Rosebank Research Farm located 15 miles southwest of Carman, MB. As a Tech III, you will work closely with the Research Agronomist to successfully conduct experimental trials predominately in canola breeding but also including other crops such as wheat, barley, soybean and corn. Your knowledge of and experience in small plot research will help you to excel in this position as you will be responsible for establishing, maintaining and harvesting research trials. Your leadership skills will allow you to effectively manage and train seasonal staff while following all safety procedures and practices.

Duties: Manage, train and oversee safety of summer staff. Maintain, diagnose and repair equipment as needed. Follow procedures, preparation of seed samples, planting, spraying, maintenance and harvesting of research trials, data collection, operating field equipment as well as a truck and trailer. Assists in conducting field tours and provides information on research programs. Some travel will be required.

Qualifications: Diploma in Agriculture, B.Sc. in Agriculture an asset. Related experience and/or farm background an asset but not necessary, attention to detail, organized, safety-oriented, ability to work independently as well as part of a team, valid driver's license and must be willing to obtain Class 3 driver's license. Must be a member of, or eligible for membership in the Manitoba Institute of Agrologists.

To Apply: submit cover letter and resume to paul.gervais@cpsagu.ca. Deadline: Friday, **November 3, 2017**

PhD Opportunity, Department of Soil Science, University of Saskatchewan, Saskatoon, SK

Microbial controls on greenhouse gas fluxes and soil N and C cycling in a novel forage grazing system

Drs. Melissa Arcand and Bobbi Helgason are seeking a PhD student to conduct research as part of an Agriculture Greenhouse Gas Program (AGGP)-funded project aimed to evaluate controls on greenhouse gas

emissions in a cattle grazing system on novel forage crops. This project will involve working with other researchers collecting greenhouse gas flux data from soils and grazing cattle as well as soil properties related to soil C sequestration potential. The student's role in this project will be to examine biological influences on soil C and N cycling, including microbial controls on N₂O and CO₂ emissions and the fate of belowground C inputs to soil and its stability. The research will provide a breadth of experience, including field-based measures that will link to gas flux data in an established grazed forage trial, mechanistic work in greenhouse experiments, and integrating data using a carbon and nitrogen model. Students will have the opportunity to build and apply skills in molecular microbiology, stable isotope techniques, and modelling of carbon and nitrogen cycling in forage-based systems.

Candidates with an MSc in Soil Science, Plant Science, Microbiology, or related discipline and with strong analytical laboratory, communication skills, and a willingness to do field work are encouraged to apply. Students will be paid a stipend of \$30,000 per year for 3 years. Additional scholarship opportunities are available.

Interested candidates should submit a CV, a one page statement of research interest, and unofficial transcripts to melissa.arcand@usask.ca. Start date: January 2018 (preferred) or no later than May 2018.

Events:

Manitoba Agronomists Conference, Dec 13-14, 2017, University of Manitoba

Call for Posters: All posters are welcome (NOT ONLY RESEARCH – ALSO SUCCESSFUL EXTENSION CRUSADES!!!!), but space is limited so posters will be accepted on a first come, first serve basis.

Send all submissions to mbagconf@umanitoba.ca.

DEADLINES:

November 13 - Submission of poster title and 25-word summary

November 20 - Submission of abstract for Program using the format shown on poster submission webpage.

December 1 - Electronic pdf copy of poster submitted for webcast viewers and publication in Proceedings.

Deadlines, formatting instructions, maximum printed poster size and printing services information are available on the website at: http://umanitoba.ca/faculties/afs/agronomists_conf/poster_submission.html.

All poster presenters will be offered a 30 second oral "poster pitch" between speakers at the conference. This will be a very short opportunity to alert participants of the high points of your poster and entice them to the poster room.

National Conference on Cover Crops & Soil Health, Dec 7-8, 2017, Indianapolis Indiana

David Montgomery, an internationally recognized geologist and award winning author, will kickoff the National Conference on Cover Crops and Soil Health with a presentation focused on practices that improve both soil health and a farmer's bottom line. Following his presentation, participants will have the opportunity to meet David and purchase three of his most popular books, *Dirt* (\$25), *Growing a Revolution* (\$25), and *Hidden Half of Nature* (\$20). You will find more information about the full agenda for the conference at <http://swcs.org/17CCSH>, including a downloadable grid featuring all 18 breakout session topics and speakers.