

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/)

16 March 2018

Upcoming:

Wednesday, Mar 21, 12:30 p.m., Room 346 Ellis Building – Soil Science seminar series. Presenters: Eric Bremer, PhD, R&D Manager, Western Ag Innovations, Cheyne Ogilvie, MSc candidate, CCA, PAg, Western Ag Innovations and Edgar Hammermeister, PAg, Manager, Western Ag Professional Agronomy – Manitoba. Title: From Data to Decisions: Quantifying Soil Nutrient Supply Power Using PRS® Technology.

Wednesday, Mar 28, 12:30 p.m., Room 346 Ellis Building – Soil Science seminar series. Presenter: Dr. Assem Abu Hatab, Assistant Professor, Food & Agricultural Economics Group, Swedish University of Agricultural Sciences. Title: Urban Sprawl, Food Security, and Agricultural Systems in Developing Countries: A Systematic Review of the Literature.

Wednesday, Apr 11, 12:30 p.m., Room 346 Ellis Building – Soil Science seminar series. Presenter: Dr. Said Nawar, Postdoctoral Fellow, Department of Soil Management, Ghent University, Belgium. Title: Proximal soil sensing for variable rate nitrogen fertilisation.

News:

Megan Bourns 3MT Finals on March 21

Remember to come out and cheer on Megan in the 3MT finals on March 21, 7:00 p.m. in the Robert Schultz lecture theatre.

Additional Summer NSERC-USRA spots available

Additional spots are available for the Summer 2018 NSERC-USRA research award. All of the application forms and eligibility criteria can be found on the Faculty of Agricultural and Food Sciences awards webpage: <http://umanitoba.ca/afs/awards/> and on the NSERC webpage: http://www.nserc-crsng.gc.ca/Students-Etudiants/UG-PC/USRA-BRPC_eng.asp. Send your application by **March 21** to agawards@umanitoba.ca. Successful candidates will be notified once the Awards Committee has selected winners, at which point instructions for completing the online USRA application form will be provided.

If you have any questions, please contact Marisol Soto, Student Awards Coordinator, 204 474-1688 or agawards@umanitoba.ca.

Project in Agroecology (AGEC 4550) Final Oral Presentations

Friday March 23 at 2:30pm, Ellis Building Room 344. Everyone Welcome! Seminars describe the Fourth-Year Thesis Projects of our Agroecology Students. Each talk is a maximum of 15 minutes (13 minute target), followed by a 5-minute question period. Pizza and Refreshments following the seminars.

Time	Topic	Speaker	Advisor
230pm	General Introduction		
235pm	Testing Soil Pre-treatment Handling Techniques for Total Phosphorus in Wetland Soils	Lindsey McKenty	Dr. David Lobb (Soil Sci.)
253pm	Ecosystem Impacts of Autonomous Chicken Coops	Carley VanOsch	Dr. Brian Amiro (Soil Sci.)
308pm	Four Crops Grown in Manitoba and the Nitrogen Use Efficiency	Samuel Steinmann	Dr. Mario Tenuta (Soil Sci.)
326pm	Suitability of Seven Annual Crops for Stockpile Grazing on the Canadian Prairies	Zack Koscielny	Dr. Emma McGeough (Animal Sci.)
344pm	Study of Competitiveness Between Reed Canary Grass and Purple Loosestrife in a Replacement Series	Zijing Guo	Dr. Rob Gulden (Plant Sci.)
405pm	Wrap-up and refreshments		

Volunteer Opportunity

The Manitoba Schools Science Symposium is recruiting judges for the 2018 fair. Judges should be individuals who have completed or are completing post-secondary education.

The Manitoba Schools Science Symposium is an annual provincial science fair for students in Grades 4 -12 with approximately 350 projects per year. This year it will be held April 27 - 28, 2018 at the University of Manitoba Max Bell Centre. If you are interested in being a judge for the fair, please register here http://www.msss.mb.ca/sfiab/user_new.php?type=judge. For further information please contact the Judging Chair at judging@msss.mb.ca.

Paper of the week:

Zheng T, Sutton NB, de Jager P, Grosshans R, **Munira S, Farenhorst A.** 2017. Glyphosate (Ab)sorption by Shoots and Rhizomes of Native versus Hybrid Cattail (*Typha*). Bulletin of environmental contamination and toxicology 99(5):595-600.

Opportunities:

Murphy Foundation Incorporated Indigenous Mentorship and Experiential Education Fund

The Faculty of Agricultural and Food Sciences has received funding from the Murphy Foundation Incorporated for initiatives intended to support work experience opportunities for Indigenous students. Part of the funding will be used to support two (2) job placements during the summer (May-August) of 2018, and the Faculty is now accepting summer work experience position proposals.

The positions are meant to serve as a means to provide meaningful work experience the student can build on as they proceed through their degree program. Work experience in Faculty research labs, research farms, food processing pilot plants or other appropriate opportunities will foster the development of in-demand skills thereby improving confidence and competitiveness of students pursuing jobs or advanced

degrees. At the end of the work term, the direct supervisor will be asked to complete a short performance evaluation and the student will be required to complete a reflective work term report.

Proposals should involve full-time positions, with pay based on the Faculty's hourly student wage guidelines and will run over a course of 14 to 18 weeks. For the selected proposals, the fund will for the student's salary costs for each work placement. Proposals will be assessed on the likely quality of experiential learning value a student stands to gain. Students eligible to apply for these positions will be those that are members of the Indigenous Community and full-time Agriculture and Food Science students returning to their degree program in the fall, and have a minimum degree grade point average of 2.0. Preference for placement may be given to students with minimum experience in the work place.

If you require any further information please do not hesitate to contact Helena Marak (Helena.Marak@Umanitoba.ca) or (204) 480 -1488. If your department would like to take advantage of this opportunity, please send the following information to Helena by **March 20, 2018**:

- Contact person and contact information
- Position description (contact Helena for a template)
- Overview of the student training envisioned
- Other information you deem relevant

On-Farm Technician, Manitoba Pulse & Soybean Growers, Carman, MB

MPSG is looking for an On-Farm Technician to assist with On-Farm Network field trials.

Specific activities:

- Assisting with the set-up and monitoring of On-Farm Network field trials
- Assisting with the collection, entering and summarization of data, such as soil samples, tissue samples, plant counts and disease ratings
- Assisting with soybean and pulse crop disease surveys and sample collection
- Assisting with extension events throughout the summer

The purpose of this position is to assist MPSG in successfully conducting On-Farm Network field trials. This is a unique opportunity to be involved in the on-farm research process while visiting a variety of farms across Manitoba. You will be part of a dynamic research and production team, gaining knowledge on soybean and pulse production, research and extension events.

Qualifications:

- Agriculture degree or diploma program at a recognized post-secondary institution, preferably in the areas of agronomy, agribusiness or agroecology
- Strong understanding and familiarity with prairie agriculture and agronomic practices
- Motivated self-starter with excellent organizational skills and attention to detail
- Interest and enthusiasm to network and communicate with others
- Positive and team-oriented attitude
- Valid Manitoba driver's license

Full-time permanent position, based in Carman, MB, requires extensive travel throughout the province. Please email resume and cover letter to: Dr. Daryl Domitruk, P.Ag., Director - Research and Production, MPSG, daryl@manitobapulse.ca. Deadline: **March 31, 2018**.

Director, Environmental Science Program, University of Calgary, Calgary, AB

The Faculty of Science invites applications for an appointment with tenure at the rank of Associate Professor to serve as the Director of the Environmental Science Program. The appointment will preferably commence on July 1, 2018. The Directorship appointment is a five-year term, renewable based on successful performance.

The successful candidate will have:

- PhD and field experience in hydrology, hydrogeology, biogeochemistry, soil science or related sciences.
- Enthusiasm for developing and leading environmental science field courses.
- Evidence of teaching excellence and teaching development.
- Passion for multidisciplinary, inquiry-based and community-based approaches to learning,
- Ability to work effectively with individuals from diverse communities and cultures.
- Demonstrated leadership record including program administration, mentoring/coaching of academic staff and students, managing change and working effectively within a leadership team.

Applications must include a cover letter, curriculum vitae, and teaching dossier (including statements of teaching philosophy and educational leadership statements, teaching evaluations). The applicant must provide the names and contact information of three references. Applications should be sent via email in a pdf format and addressed to: Dr. Cindy Graham, Vice-Dean, Faculty of Science, University of Calgary, 2500 University Dr NW, Calgary, Alberta, T2N 1N4, Email: scidean@ucalgary.ca. Applications will be reviewed starting **April 2, 2018** until the position is filled.

Student Affairs Participation Award, University of Manitoba

Purpose: To recognize and encourage students at the University of Manitoba who maintain high academic achievement while demonstrating exceptional leadership qualities in making a significant voluntary contribution to the university and/ or broader community.

Value: One award of \$975.00. Deadline: Friday, **April 6, 2018**.

Candidates must:

- (1) have completed courses constituting at least a first full year of a program of study at the University of Manitoba with a minimum cumulative grade point average of 3.5;
- (2) be enrolled as a full-time student (60% course-load) in the year in which the award is tenable;
- (3) verify active participation in the university and/or broader community, in activities such as, but not limited to, university governance and committees, the arts, music and athletics.

If you have any questions about the process or would like a nomination form, please contact Mandy Laing (Awards Selection Coordinator) at 474-9388, or via email at Mandy.Laing@umanitoba.ca. Submit forms to: Financial Aid & Awards Office, Room 422, University Centre Building, University of Manitoba, Winnipeg, Manitoba, R3T 2N2, Attn: Maria Roy, Email: maria.roy@umanitoba.ca.

Professor and Chair, Department of Soil and Water Sciences, Institute of Food and Agricultural Sciences (IFAS), University of Florida Gainesville, Florida, USA

For full consideration, candidates should apply and submit additional materials by **15 April 2018**. The position will open until a viable applicant pool is determined. This position is available Fall 2018 and will be filled as soon thereafter as an acceptable applicant is available.

Qualifications:

- The Chair must have an earned Doctorate (foreign equivalent acceptable) in Soil and Water Sciences, Environmental Sciences, Natural Resources, or a related discipline.
- A record of outstanding scholarly achievement and professional activities related to teaching, research, extension, and/or industry that will qualify the individual to be a tenured full professor in the Department
- Evidence of ability to direct an academic department engaged in teaching, research, and extension activities at a major Land-grant university with faculty located throughout the state
- Demonstrated ability to direct interdisciplinary, grant funded fundamental science and applied research
- Ability to lead and manage multidisciplinary programs
- Effective administrative leadership and managerial skills in: defining organizational objectives; developing strategic approaches to planning; managing human, fiscal, and physical resources; motivating people and developing effective teams; pursuing entrepreneurial opportunities; generating and managing grant funds in support of teaching, research, and extension; facilitating mentoring and retention of new faculty; securing private funds; and attending to details.
- Strong commitment to undergraduate and graduate student recruitment and retention for all academic programs in Soil and Water Sciences
- Demonstrated ability to interact well with students, faculty, staff, administrators within the university, and external stakeholders at the state, federal, and international levels • Effective leadership in outreach to industry and engagement with diverse clientele groups
- Commitment to shared governance and fostering strong collaborations among state faculty located on the main campus and at the IFAS Research and Education Centers
- Commitment to continued professional development for self, and faculty and staff
- Commitment to international programs
- Strong support and understanding of the mission of a Land Grant university

Individuals wishing to apply must go online to <http://explore.jobs.ufl.edu/cw/en-us/job/506504>. Please refer to Position 0001-3552 and forward all nominations to: Dr. Eric C Hellgren, Chair, Search and Screen Committee, Department of Wildlife Ecology and Conservation, P.O. Box 110430, University of Florida, Gainesville, FL, 32611-0430, Phone: 352-846-0552, Email: hellgren@ufl.edu.

2018 IPNI Scholar Awards Program

Deadline: **April 25, 2018**. Graduate students attending a degree-granting institution located in any country with an IPNI program are eligible. Awards of US\$2,000 each will be conferred to students in sciences relevant to plant nutrition and management of crop nutrients. More information: <http://www.ipni.net/awards>.

2018 Storkan-Hanes-McCaslin Foundation Awards

A major aim of the foundation is to encourage research by offering financial assistance to graduate students who are working on soil-borne diseases of plants. The research must be done in the United States, Canada or Mexico. Foundation policy is to contribute to the education of the student. In addition to unrestricted cash awards (which range from \$5,000 to \$10,000 and can be used for any purpose that will benefit the education of the student including personal expenses), new awardees will also receive round-trip fares to the 2018 ICPP (hosted by the APS) Boston, Massachusetts meeting and are presented their awards at a luncheon attended by their research advisors, previous awardees, and members of the Foundation Committee. Grants are made on a yearly basis and may be renewed upon review by the committee. Since the award is highly competitive, unsuccessful applicants are encouraged to update their proposal for future consideration. The research for which the award is given is expected to be performed by the applicant during the academic year 2018–2019, and a one page progress report is due one year from the date of the award. It would be appreciated if the Foundation were acknowledged in research publications stemming from this Award. To be considered for funding, each proposal should be carefully prepared in accordance with the instructions given below and submitted electronically, no later than **May 1, 2018** to: Dr. Michael Stanghellini (Chair of the Selection Committee), e-mail address: michael.stanghellini@ucr.edu.

Please submit a combined file containing:

- (i) a short, two–three page research proposal containing a concise statement of the objectives, methods and materials, and projected impact of the proposed research (note: a budget is not required)
- (ii) a one page resume (i.e., a brief education and research background, including a telephone number and e-mail address), and
- (iii) a letter of recommendation from the applicant’s major professor or research director.

Preference will be given to those proposals containing innovative, creative, and/or novel research approaches to the stated objective(s), and to the overall quality (organization, correct English grammar and spelling) of the written proposal. Funding will begin September 1, 2018.

Nutrient Management Specialist, HyLife Ltd., La Broquerie, MB

Responsibilities:

- Facilitating activities associated with filing of manure management plans including fertilizer recommendations
- Ensure all activities meet or exceed all regulatory requirements
- Coordinate soil sampling and manure application activities
- Manage soil and land databases (ArcGIS)
- Provide technical support for environmental stewardship and regulatory requirements
- Assist in the development and delivery of Nutrient Management programs
- Develop and maintain a strong working relationship with regulatory agencies
- Special projects and duties as assigned

Qualifications:

- Strong communication skills
- Bachelor of Science in Agriculture or equivalent education or experience
- Eligibility for membership in the Manitoba Institute of Agrologists or CCA accreditation would be considered an asset

- Strong background in soil science and agronomy
- Ability to communicate with farmers as well as local and Provincial governments
- Strong organizational skills
- Proficiency with Microsoft office suite and ArcGIS would be considered an asset
- Agricultural background would be considered an asset

Comprehensive benefits package and competitive compensation offered based on experience and knowledge. HyLife has been recognized as a Platinum Member of Canada's Best-Managed Companies.

Apply online at www.hylife.com/current-opportunities.

Events:

Joint CGU-CSSS-CSAFM-ES-SSA-CIG Meeting, Jun 10-14, 2018, Niagara Falls, ON

The online abstract submission portal and a full list of special and general sessions are available at: <https://meeting2018.cgu-ugc.ca/program/>. The deadline for abstract submission has been extended to **March 16**.

More information about the 2018 CSSS-CGU conference can be found at <https://meeting2018.cgu-ugc.ca/>.