

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/)

13 January 2017

Upcoming:

Wednesday, Jan 18, 3:30 p.m., Room 130 Agriculture Building – Faculty seminar. Dr. Brian Amiro, Department of Soil Science. “Challenges and Opportunities for Mitigating Agricultural Greenhouse Gases” (refreshments served at 3:00 pm).

Wednesday, Jan 25, 12:30 p.m., Room 346 Ellis Building – Two conference-length Department of Soil Science seminars.

Justice Zhanda, M.Sc. student. “Assessment of Heat Units for Modeling Grain Corn Development on the Prairies”

Matthew Wood, M.Sc. student. “A comparison of Enhanced Efficiency Nitrogen Fertilizers and Products to Reduce Nitrous Oxide Emissions in Manitoba.”

Wednesday, Feb 15, 12:30 p.m., Room 346 Ellis Building – Two conference-length Department of Soil Science seminars.

Masoud Goharrokhi, Ph.D. student. “Assessing some of the issues associated with the time-integrated fine sediment sampler (TIFSS).”

Mayowa Adelekun, Ph.D. student. “Simulation of greenhouse gas fluxes from perennial forage grasses and annual crops using the DNDC model.”

News:

Congratulations to Mick

Mick Runzika successfully defended his M.Sc. on Tuesday. Well done!

MSSS Wall Poster for Canada’s 150th

In celebration of Canada’s 150th Birthday the Manitoba Soil Science Society (MSSS) has created a wall poster to highlight thirteen significant or unique soils from across Canada. Special thanks to the soils specialists across Canada that dug deep into their photo collections to assist with this project. If members of the Canadian Soil Science Society (CSSS) are interested in obtaining e-copies of this poster to print and distribute locally, please contact Kevin Baron at Kevin.Baron@umanitoba.ca. To see a photo of the poster, please [click here](#).

Newest Soil Science trainee



Ahmed Lasisi and his wife welcomed their daughter, Ameerah, on December 27th. She is already a strong contender for the “cutest soil scientist” award.

Congratulations!

Opportunities:

Technician 5 - 4R NITROGEN AGRONOMIST, Department of Soil Science, University of Manitoba

Key Responsibilities:

- Plan, establish, manage and monitor 4R nitrogen fertilizer trials throughout agricultural Manitoba, in response to dynamic environmental conditions such as weather, crop and pest conditions as they occur.
- Develop and implement sample collection, preparation, storage and analyses protocols for soil and plant samples.
- Work with other Soil Science staff and staff of crop diversification centres, industry research staff and crop consultants to implement the systems and protocols.
- Develop and manage a dataset for soil and plant data. Prepare statistical analyses, tables, graphs and figures.
- Write research reports, peer-reviewed manuscripts and extension publications.
- Recruit, hire, train and supervise summer students.
- Coordinate field and lab activities among researchers and students working at field experiment plots and labs.
- Communicate relevant decisions, activities, opportunities, and challenges to scientists, staff and industry through tours, extension meetings, field tours and social media (e.g. Twitter) on behalf of the Soil Ecology Laboratory.
- Perform other related duties as assigned or required.

Qualifications:

- Minimum Education required is a Master of Science degree in Agronomy, Soil Science or other relevant discipline with substantial depth in soil, crop and nutrient management is required.
- Prairie Certified Crop Advisor preferred.

- Two years of directly related experience is required.
- Experience in experimental design, designing and implementing field crop research protocols, project management, statistical analyses, and writing of research reports, is required.
- Substantial experience in agricultural and field operations required, including intensive production and protection of crops is required.
- Experience in supervising staff and publishing peer-reviewed manuscripts is preferred.
- Experience in recruiting, hiring, training, and supervising the work of staff and students is required.
- An acceptable equivalent combination of education and experience may be considered.

Estimated Weekly Hours 35; Salary (Hourly) \$25.84 - \$34.42; Salary (Annual) \$47,028.80 - \$62,644.40

Application deadline: 2017-01-23; Proposed Start Date: 2017-02-01. More info: [click here](#).

This position is under the supervision of Dr. Mario Tenuta, Soil Ecology Lab. For inquiries please contact Dr. Tenuta at Mario.Tenuta@umanitoba.ca.

Assistant Professor, Department of Geography, University of Winnipeg

The Department of Geography at The University of Winnipeg invites outstanding candidates to apply for a tenure-track appointment at the rank of Assistant Professor. The ideal candidate will possess a Ph.D. in Physical Geography at the time of appointment, with a strong research focus on soil science. Postdoctoral experience is preferred, as is demonstrated teaching experience and effectiveness.

The successful applicant will have research and teaching experience in pedology and related areas, including soil-vegetation systems, geomorphology, biogeography, and/or physical geology. Experience or interest in prairie and/or northern regions is an asset. The successful candidate will also have a strong record of scholarship as demonstrated by research grants, publications and other forms of academic success. The Department endeavors to actively engage its students in research projects and fieldwork experiences. Housed in the Faculty of Science, Geography offers 3 and 4 year degrees in Arts and Science, and a Joint GIS Program with Red River College.

Subject to budgetary approval, this position will be effective from July 1, 2017. Salary levels will be commensurate with qualifications and experience.

The selection committee will begin reviewing applications on February 23, 2017 and will continue until the position is filled; full consideration is assured for applications received by **Wednesday, February 22, 2017**. Applicants must submit a cover letter, full curriculum vitae, outline of proposed research program (maximum two pages), a statement of teaching philosophy including evidence of teaching effectiveness (maximum two pages), and two or three representative publications (all documents in PDF). Candidates should also arrange to have three letters of reference e-mailed directly to:

Dr. Marc Vachon, Chair Department of Geography The University of Winnipeg 515 Portage Avenue
Winnipeg, Manitoba, Canada R3B 2E9, e-mail: geography@uwinnipeg.ca.

M.Sc. and Ph.D. UMGF Awards, Department of Soil Science, University of Manitoba

New applicants and current M.Sc. and Ph.D. students are encouraged to apply for the 2017 Department of Soil Science University of Manitoba Graduate Fellowship Competition. The award value is \$14,000 per year for a maximum of 2 years for M.Sc. students; and \$18,000 per year for a maximum of 4 years for Ph.D. students. Note that students may only hold the award for the first 24 months of their M.Sc. program or 48 months for a Ph.D. program; students who are currently enrolled must have at least 12 months remaining

in their program as of May 1, 2017; new students must become enrolled by January 2018. Students must have a minimum GPA of 3.75 (above B+) at a recognized university based on their last 60 credit hours or equivalent. All students regardless of citizenship are eligible to apply.

Students must submit the following electronically to Martha Blouw, Graduate Academic Advisor, Telephone: 204-474-8223; email: Martha.Blouw@umanitoba.ca, by **March 6, 2017**, 400pm:

- Official Transcript of grades from all university programs; University of Manitoba students request student histories from the Registrar's Office (free) to be sent directly to Martha Blouw, 226 Agriculture Building; Current students can provide copies of their original transcripts used for initial admission;
- Letter of Intent describing your educational goals, notional thesis topic area, the name of your thesis advisor, and the date when your program will start;
- A resumé indicating exceptional achievements and demonstration of leadership and experience;
- A 300- to 500-word description of your intended research.
- Letters of reference from two professional referees sent directly from the referee to Martha.Blouw@umanitoba.ca.

Backpacking with a Purpose

Operation Groundswell is a non-profit organization that runs international volunteering programs, focusing on social justice issues and working alongside local activists, organizations, and communities. We are looking for globally conscious and socially active students who want to spend their summer exploring some of the most complex and beautiful countries in the world!

If you're into cultural exchange, meaningful community service, and off-the-beaten path adventure, apply by March 1st to secure an interview for one of your top choice programs! Programs are filling up quickly so apply as soon as possible! *Financial assistance is available for all students on our 35- and 40-day programs.

Check out where we go: www.operationgroundswell.com

Summer programs are open in the following countries and regions:

- India – Education or Gender Rights
- Southeast Asia – Conservation or Youth Empowerment
- Middle East – Human Rights
- Ghana – Global Health or Education
- Tanzania – Social Innovation
- Guatemala – Fair Trade Justice or Peace & Conflict
- Peru – Environment

Events:

Soil Fertility Refresher, Jan 24 -25, 2017, Carman Research Station, University of Manitoba, Carman, MB

- Do you miss those Thursday/Friday afternoon Soil Fertility Labs?
- Brushing up for your CCA exam?
- Join us for 2 days of detailed soil fertility training!

Tuesday January 24 and Wednesday January 25, 2017, 9:00 am – 4:00 pm,

University of Manitoba, Carman Research Station

Instructors: Dr. Don Flaten (University of Manitoba) and John Heard (Soil fertility Extension) and Marla Riekman (Soil Management), Manitoba Agriculture

Contents:

1. Basic soil properties and productivity
2. Nitrogen, Phosphorus, Potassium, Sulphur, Micronutrients
 - a. Form and behaviour in soil
 - b. Nutrient uptake, function and deficiency symptoms
 - c. Fertilizer source, placement, timing and rate
3. Soil test interpretation and recommendations

Materials: Nutrient Management Modules, lecture notes

Cost: \$100 to Manitoba Soil Science Society, Limited to 30 participants.

Preregistration required to John Heard, John.Heard@gov.mb.ca, 204 745-8093

9 Nutrient Management CEUs and 3 Soil and Water Management CEUs available.

Sponsored by Manitoba Soil Science Society

60th Annual Manitoba Soil Science Society Meetings, Feb. 2-3, 2017, Holiday Inn – Winnipeg South

Early bird deadline is January 19, 2017.

Note, Department of Soil Science participants, please contact Lynda.Closson@umanitoba.ca for a fillable version of the registration form on which you can enter a valid budget number to have it charged directly. Please contact marla.riekman@gov.mb.ca if you have any other questions about registration.

Alberta Soil Science Workshop, February 15 to 17, 2017, Lethbridge, Alberta

Conference theme: What is Soil Health? Concepts to Applications.

Additional information and registration is available at: <http://www.soilsworkshop.ab.ca/>.

AIC 2017 Conference, April 24-26, 2017, Winnipeg

This year's theme is Agricultural Innovation in a Changing Environment. Click [here](#) to learn more!

The conference will foster important discussions among policy makers, industry stakeholders, entrepreneurs and the research community about agriculture's impact on the environment in a changing climate. AIC 2017 will also showcase world-class innovative research taking place across Canada and explore how green growth in the sector can build on a strong scientific, evidence-based foundation.

Early bird rates are available until **January 27, 2017**. Click [here](#) to register today!