

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:

Lynda Closson
University of Manitoba
Room 362 Ellis Bldg
Winnipeg, MB R3T 2N2

Phone: 204 474-8153, Fax: 204 474-7642
Email: Lynda.Closson@umanitoba.ca
Past issues of the Soiled Profile are on our webpage: umanitoba.ca/afs/soil_science/

22 November 2019

Upcoming

**Special presentations: Candidates for Assistant Professor position in Soil Science
Department of Soil Science, Faculty of Agricultural and Food Sciences
All are welcome! Coffee and Donuts provided.**



Dr. Debjani Sihi

Research seminar: *Soil Organic Matter and Greenhouse Gas Dynamics: Experiences and Opportunities at the University of Manitoba*

Monday, November 25, 9:30 am, 346 Ellis Building

Teaching presentation: *Soil: A Multifunctional Natural Resource to Sustain Life*

Tuesday, November 26, 8:30 am, 344 Ellis Building



Dr. Jennifer Cooper

Research seminar: *How to harness biogeochemical relationships between carbon, nutrients, and mineral oxides in anthropogenic soil environments for our benefit*

Thursday, November 28, 8:30 am, 346 Ellis Building

Teaching presentation: *Introduction to soil science – a soil biogeochemist’s perspective*

Friday, November 29, 8:30 am, 344 Ellis Building

M.Sc. thesis defense events, Department of Soil Science

1. Candidate: Kate Dorrian

Thesis title: Effects of Genotype, Weather and FHB Fungicide/Pre-harvest Glyphosate on Wheat Quality and Gluten Strength for Breadmaking

Date: December 2, 1:00 pm

Room: 346 Ellis Building

2. Candidate: Mauli Gamhewage

Thesis title: Pesticides in water-column and bottom sediments of four Manitoba rivers

Date: December 9, 1:00 pm

Room: 346 Ellis Building

Department of Soil Science Annual Holiday Potluck

When: December 18, starting at noon

Where: 346 Ellis Bldg

Stay tuned for further details...

R Workshop

Presented by Dr. Steffi LaZerte

When: TBD

Where: Ellis Bldg (room TBD)

Proposed Content

This workshop would include creating figures and data visualizations, loading, cleaning and summarizing data, and conducting statistical analyses. This workshop would teach participants how to use R, RStudio, and a variety of R packages, especially those in the tidyverse (e.g., ggplot2, dplyr, tidyr, etc.) and those specific to certain analyses. Participants will be encouraged to bring their own data sets, but practice data sets will be available. All material will be made available to participants before, during and after the workshop. This workshop would be suitable for R beginners as well as for those wishing to improve existing R skills.

Proposed Schedule

This workshop could be conducted on weekends or weekdays. Each day would run from ~9 am to 5 pm with several short breaks, a longer lunch hour break. At the end of each day time is available to support students working on personal R projects.

Day 1

Intro R basics

Data visualizations

Loading data

Day 2

Cleaning data

Summarizing data

Transforming data

Intro to statistics*

**Specific statistical analyses to be determined with input from participants*

Pricing Quote

No. Participants	Price per Participant
11 - 13	\$250
14 - 16	\$225
17 - 19	\$200
20 - 25	\$175

A minimum of 11 and a maximum of 25 participants (ideally <20) will ensure that the workshop is reasonably priced while still allowing adequate one-on-one opportunities with the instructor.

Note that proposed price per student is the full price, and therefore includes workshop cost plus 5% GST, as well as mileage, accomodation, and meals for the instructor travelling from Brandon, MB.

If you are interested, please let Francis Zvomuya (francis.zvomuya@umanitoba.ca) know.

Graduate Students

CANADIAN WATER RESOURCES ASSOCIATION (CWRA) Scholarships

Five scholarships valued from \$1,500 to \$5,000 · For Master's & PhD students

Research Field(s): Applied, Natural, or Social Science aspects of water resources

Deadline: January 31, 2020

[More Info](#)

Information for all Master's and Ph.D. students who are continuing in their programs*:

All graduate students are required to register every academic term which includes Fall, Winter and Summer. If students do not register, they will be discontinued from their program of study. You may have already registered for Winter 2020, but if not, please ensure you are registered for the Winter 2020 re-registration course:

	Course #	Term	CRN
Master's Re-registration	GRAD 7020	Winter 2020	50187
Doctoral Re-registration	GRAD 8020	Winter 2020	50198

This re-registration should be over and above any course registration(s) you complete. So long as you are in a re-registration course for each term, you will retain status in your graduate program even if you withdraw from other courses.

**MBA and MPA students: if you need to register for re-registration only, please contact your departmental/unit graduate program assistant.*

Exceptions to Winter 2020 term re-registration:

- Students on a Parental or Exceptional Leave do not have to register in the term(s) for which this kind of leave is approved. Students on a *Regular Leave* are still required to register for the re-registration course in each term.
- Students who anticipate graduating in February 2020 are not required to register for the Winter 2020 term.

Note:

Students who anticipate graduating in May 2020 must register for their final Thesis/Practicum/Comprehensive Exam/Project or the final course specific to their program in Winter 2020 term. Re-registration in GRAD 7020/GRAD 8020 is still a good idea in case your graduating term is delayed.

All course numbers and CRNs can be found by searching the Class Schedule link at <https://aurora.umanitoba.ca/>.

If you have questions about registration, please contact your departmental/unit graduate program assistant.

Compulsory GRAD 7500 Academic Integrity Tutorial

Academic Integrity is a matter of paramount importance in academia. It is the foundation of scholarly work. Breaches of Academic Integrity, whether intentional or unintentional, have potentially very serious consequences to a student's status in the Faculty of Graduate Studies and at the University of Manitoba. To help graduate students better understand the issues surrounding Academic Integrity, the Senate of the University of Manitoba passed a motion that requires all graduate students to take a compulsory tutorial on Academic Integrity.

All pre-Master's and graduate students must register for and complete GRAD 7500 Academic Integrity Tutorial. This is a zero (0) credit-hour course intended to introduce students to their basic responsibilities regarding academic integrity and to the resources available to them.

Pre-Master's and graduate students who are starting their graduate program in Winter 2020, or who have not yet registered for the course, must register for GRAD 7500:

Course	Term	CRN
GRAD 7500	Winter 2020	53733
GRAD 7500 (French version for USB students)	Winter 2020	54896

Failure to successfully complete this course will result in further remedial measures.

Note:

- o Please only register for GRAD 7500 once. Do not register in subsequent terms while admitted to the same degree program.
- o Students on an exceptional/parental/regular leave of absence must register in GRAD 7500 upon return from leave if it has not already been completed.
- o Students MUST complete GRAD 7500 even if:
 - They have already completed the Research Integrity course.
 - They have already completed a similar departmental seminar course.
 - Their thesis is in the middle of distribution or they have completed the distribution.
 - A span of time of one (1) or more term(s) separates one graduate degree program from another graduate degree program (for instance, if a student completed GRAD 7500 at the Master's level, took a break of one (1) or more terms and was admitted to another Master's or Ph.D. program)
- o Students are not required to complete GRAD 7500 if:
 - They are a Ph.D. student who already completed GRAD 7500 during their Master's program (without a span of time between programs)
 - They are a visiting or occasional student

Students must register for the course in Aurora in order to access it in UM Learn.

We strongly suggest you review the course instructions prior to starting the course:

http://umanitoba.ca/graduate_studies/htmlmail/Academic_Integrity_Instructions.pdf

Frequently Asked Questions can be viewed

at: umanitoba.ca/faculties/graduate_studies/registration/grad7500FAQ.html

Always remember to plan your program carefully. It is imperative that you ensure you are registering for only those courses that are a major part of your Master's or Ph.D. program. If they are not part of your major program then they should be added through your department/unit office as an Auxiliary course "X", Audit course "A" or an Occasional course "O". If you have questions about this, contact your department/unit. Do not register for more courses than your program allows because you may be assessed extra fees at the time of graduation.

As per SECTION 2: Academic Performance of the Faculty of Graduate Studies Academic Guide

<http://crscalprod.ad.umanitoba.ca/Catalog/ViewCatalog.aspx?pageid=viewcatalog&catalogid=380&chapterid=4550&topicgroupid=23959&loaduserredits=False>):

"Students are responsible for ensuring that they meet all degree and program requirements. The advisor (and if appropriate co-advisor), advisory committee, and department/unit must ensure that each student follows Faculty of Graduate Studies and department/unit guidelines and meets all program requirements. The Faculty of Graduate Studies performs a final check of Faculty of Graduate Studies minimum requirements for each student just prior to graduation. Students are cautioned, therefore, to periodically check all regulations with respect to their degree requirements. Failure to meet all the requirements will render a student ineligible to graduate."

Thank you for your attention to these important graduate student matters.

Andrea J. Kailer, B. Comm. (Hons), Confidential Assistant to the Associate Deans & Programs Coordinator, FGS. Tel. 204.474.7298 • Fax 204.474.7553

NSERC Canada Graduate Scholarships - Master's Program

The objective of the Canada Graduate Scholarships-Master's (CGS M) program is to help develop research skills and assist in the training of highly qualified personnel by supporting students who demonstrate a high standard of achievement in undergraduate and early graduate studies.

The CGS M program provides financial support to high-calibre scholars who are engaged in eligible master's or, in some cases, doctoral programs in Canada. This support allows these scholars to fully concentrate on their studies in their chosen fields.

The CGS M program supports up to 3,000 students annually in all disciplines and is administered jointly by Canada's three federal agencies: CIHR, NSERC and SSHRC. The selection process and post-award administration are carried out at the institutional level, under the guidance of the three agencies. Students submit their application to the institution at which they intend to hold their award using the Research Portal.

Please read and follow application information and requirements carefully: http://www.nserc-crsng.gc.ca/Students-Etudiants/PG-CS/CGSM-BESCM_eng.asp

Application **Deadline: December 1**, before 8:00 p.m. (ET)

Please let Martha Blouw (Martha.Blouw@umanitoba.ca) know if you intend to apply.

Mitacs Workshops for Graduate Students

The following is a list of Mitacs workshops scheduled for this academic year:

- Skills of Communications – Nov 26: GSA Lounge, U of MB
- Build Your Scientific and Technical Writing Skills – Nov 7 – 8: venue TBD
- Practice Your Presentation Skills I – Feb 13, 2020: GSA Lounge, U of MB
- Discovering the Entrepreneur Within – Feb 26, 2020: GSA Lounge, U of MB
- Career Professionalism - Mar 12, 2020 (not confirmed yet)

PhD and MSc positions, School of Environmental Sciences, University of Guelph

Project: Are you fascinated by soil carbon? You have probably heard a lot about soil carbon sequestration and cycling recently. Did you know that most of the soil carbon reporting and assessing comes from models? How would you like to be a contributor to improving those models?

My research group seeks a PhD and an MSc student to improve terrestrial carbon modelling. This highly applicable project is funded through the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA). The student will join an active group exploring many aspects of organic matter characterization, mapping and modelling. The project has funding for three (PhD) or two (MSc) years and is located at the University of Guelph campus. Starting date is January 2020.

Detail: Terrestrial carbon models in Canada are carried out under a variety of platforms, with agriculture predominantly using CENTURY. These models need to be updated to include modern crop cultivars, Ontario-specific environmental conditions and soil amendments. We are looking to develop an explicit spatial component as well. In addition, the model itself requires rigorous re-evaluation, and so this project offers a lot of room to promising candidates to develop highly applicable modelling approaches.

Qualifications: Training in ecological modelling, environmental science, geography, agriculture, earth or soil sciences. Applicants should be willing to combine field work, laboratory and computer analysis and be able to work independently as well as co-operatively with other graduate students, field, and research staff. Previous experience with modelling, remote sensing and coding is an asset for the MSc candidate, and is essential for the PhD candidate.

Apply: Please provide a letter of interest, CV, and contact information for 2 references to Dr. Adam Gillespie (agilles@uoguelph.ca) in the School of Environmental Sciences, University of Guelph, Ontario Canada.

Employment/Graduate Opportunities

MSc Projects: Characterizing the carbon footprint of organic crops produced in the Western Canadian, Ontario or Quebec/Maritimes Regions

Funding is available to support three (3) Masters students at a rate of \$20,000 annually for two years (plus possible additional paid internship for summer 2020).

For more information and instructions for applying to the:

- MSc Program at UBC-O, please visit the “Prospective Students” page at www.prismlab.weebly.com.
- MES program at Waterloo, please see <https://uwaterloo.ca/school-environment-enterprisedevelopment/graduate/mes-sustainability-management> and contact Goretty Dias at gdias@waterloo.ca,
- MES program at Dalhousie, please see <https://www.dal.ca/academics/programs/graduate/environmentalstudies.html> and contact Peter Tyedmers at peter.tyedmers@dal.ca.

Important Dates

December 6: Last day of classes

December 21 – Jan 1: Winter holiday

Jan 6: First day of classes