



PRESIDENT'S MESSAGE

Dear Colleagues,

As I write, we are just coming out of a record-breaking heat wave in the west, COVID restrictions are being lifted in many provinces, and universities are planning for a return to normal (or near-normal) by fall.

Heat wave and COVID notwithstanding, June was a great month for soil science. Our colleagues in Charlottetown successfully planned and hosted our first-ever virtual conference, which provided all of us an opportunity to catch up on the research that everyone has been busy with over the past couple of years. A reminder that if you missed a presentation due to concurrent scheduling or you wanted to watch one again, they are still available until April 30, 2022. Kudos to the entire CSSS 2021 planning and technical team for their hard work!

As you'll see later in this newsletter, CSSS 2021 also had a slate of five outstanding soil scientists added as CSSS Fellows. These folks have all had tremendous impact on our discipline and on the communities we serve – if you haven't had a chance to do so, please do take a moment to send them a note of congratulations.

The Pedology Committee met at the end of June and had an animated discussion about the Canadian System of Soil Classification (yes, seriously). There is a CJSS special issue on [Advances in Soil Survey and Classification in Canada](https://cdnsiencepub.com/doi/10.1139/news.2021.04.05.02/full/) <https://cdnsiencepub.com/doi/10.1139/news.2021.04.05.02/full/> accepting submissions until October 29, 2021, so if you are excited about soil survey (including predictive digital soil mapping techniques) and soil classification (including revisions to our system), please consider submitting.

There's also a special issue on [Soil Health Evaluation](https://cdnsiencepub.com/doi/10.1139/news.2021.04.05/full/) <https://cdnsiencepub.com/doi/10.1139/news.2021.04.05/full/> accepting submissions until September 30, 2021, so if this is your area of expertise, please consider CJSS as your publication destination for your latest work.

Speaking of the CJSS, the latest impact factors are out, and our journal has jumped from 1.171 to 1.522! Congrats to Anne Naeth, our Editor-in-Chief, and the entire hard-working editorial team.

Hopefully this summer will provide you with opportunities for rest and relaxation – or at least the opportunity to check out some fabulous soils in the field.

Either way, enjoy your summer and stay safe. Hope to see many of you in Edmonton in summer 2022!

Angela Bedard-Haughan  
President, CSSS



## CSSS Council

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## Canadian Society of Soil Science Anti-Racism Statement

We acknowledge that our community is not exempt from the systemic racism, violence, and discrimination that Black, Indigenous, and people of colour (BIPOC) face. In particular, we must continue to call attention to the institutionalized racism in academia and the Canadian research community and how these biases affect the Canadian Society of Soil Science (CSSS) and its members. As a national science organization, our responsibility includes advocating for racial equity within academia and society as a whole.

CSSS has formed an anti-racism task group to develop a strategy to understand and address systemic racism and other forms of discrimination within our organization. This strategy will include actionable items and resources for integrating anti-racist and anti-oppressive policies and practices into our society operations. A first step that is underway is the development of an optional, anonymous survey for membership to give input on specific challenges and potential systemic improvements that our society can make.

This statement, the committee, and the future anti-racism strategy will be used as a launching point and as a means of holding ourselves accountable to change. We are committed to the ongoing process of unlearning racism and other forms of discrimination and using our actions to counter the systemic racism that exists in Canada and Science, Technology, Engineering, and Mathematics (STEM) fields. If you wish to participate or offer feedback to the anti-racism task group please contact Nathan Basiliko [nbasiliko@laurentian.ca]

## Report on the 2021 Canadian Soil Science Virtual Meeting

The 2021 meeting was held virtually from June 7 to 10<sup>th</sup>, 2021. The advantage of a virtual event is that it can increase the attendance and thus the visibility of the society, and it is possible to invite well known keynote speakers. A total of 287 registrants was recorded and speakers from outside Canada joined the meeting including people from USA, Brazil, Costa Rica, UK, Ireland, and Sweden. Attendants enjoyed listening to three outstanding keynote speakers in the area of big data and precision agriculture, soil microbiology, and linking soil science to local knowledge systems. Over 158 submitted abstracts, 26% were posters, and 44% of the presentations were given by the graduate students. Personal interaction and networking as well as field trips were missed during this event, but overall, the very first CSSS virtual meeting was a success. All presentations are available for viewing by anyone registered for the conference. Presentations can be accessed until April 30, 2022 using the login information provided for the conference. The participants will need to use their personal login information provided before the meeting.

Judith Nyiraneza on behalf of the 2021 CSSS organizing committee.

## Graduate Student Photo Contest

Are you a graduate student interested in visually projecting your research? Do you have interesting and memorable research photos you are willing to share? Then look no further as the CSSS is accepting submissions for the Canadian Journal of Soil Science (CJSS) graduate student photo contest. CJSS is a quarterly journal, and one photo will be selected for each issue.

Deadlines for submission are February 24, May 26, August 26, and November 26.

All submissions must meet the following specifications:

- Image should focus on some aspect of soil science to reflect CJSS content.
- Image size and resolution: at least 8.5" x 11" at 300 dpi or better.
- No collages; one single image only.
- Image in focus and not blurry.
- Image must not include people.
- No manipulation or heavy editing of image required.
- No cell phone photographs.
- Acceptable image formats are .jpg, .png, or .tif.

Students may submit more than one image per competition.

All entries should be sent to:

M. Anne Naeth ([anne.naeth@ualberta.ca](mailto:anne.naeth@ualberta.ca)) and Erika H. Young ([ehyoung@grenfell.mun.ca](mailto:ehyoung@grenfell.mun.ca)).

The next deadline for submission is August 26, 2021. The top submission will receive a \$125 cash prize and the winning photograph will be featured on the cover of the Canadian Journal of Soil Science and on the CSSS website.

## 2021 CSSS Annual Meeting Presentation Awards

The C.F. Bentley Award was established to encourage and recognize excellence in oral presentations by students at the CSSS Annual Meetings. The 2021 winners of the award are: Paula Poto (University of British Columbia), 1st Place; David Bysouth (University of Guelph), 2nd Place; Lauren Weller (University of Windsor), 3rd Place (tie); and Julianna Vantellingen (University of Toronto), 3rd Place (tie). Honourable mention was awarded to Louise Sennett (Dalhousie University), Raelani Kelser (University of British Columbia), and Jessica Nicksy (University of Manitoba).

The President's Award was established to foster excellence in student poster presentations as a means of disseminating research results at the CSSS Annual Meetings. The 2021 winners of the award are: Karolane Bourdan (Université Laval), 1st Place; Waqar Ashiq (University of Guelph), 2nd Place; and Victoria Nimmo (University of Toronto), 3rd Place. Honourable mention was awarded to Nastaran Chalabianlou (University of Guelph), Iva Henry (University of Saskatchewan), and Qianyi Wu (University of Saskatchewan).

Join us next year as the University of Alberta hosts the 2022 CSSS Annual Meeting in Edmonton, AB.

## 2021 CSSS Fellow Award



Dr. Fran Walley

### Dr. Fran Walley

All nominees for the CSSS Fellow award have made outstanding contributions to Canadian soil science but the breadth of Dr. Fran Walley's contributions are particularly noteworthy. Dr. Walley was first hired into a joint Assistant Professor/ Extension Specialist position in the Department of Soil Science at the University of Saskatchewan at the time when the adoption of pulse crops was underway in the Canadian Prairies. As a novel crop there was a need to research many aspects of pulse agronomy at both scientific and practical levels, and this was the main focus of Fran's early research career. A second major emphasis of Dr. Walley's research career was her more fundamental research on nitrogen and carbon compounds in soil using synchrotron-based techniques at the Canadian Light Source (CLS).

During construction of the CLS, Dr. Walley saw the great potential of the CLS in soil science and trained herself as a synchrotron scientist. This ability to see the potential of novel techniques and approaches is a hallmark of Dr. Walley's leadership throughout her career. A third and continuing thread to Dr. Walley's research career is a concern about the sustainability of current cropping practices on life in the soil, specifically the microbial community. Her research has made a lasting impact on our knowledge of soils and agronomy but her contributions to soil science extend far beyond this.

A major current contribution is her role as co-editor (with Dr. Maja Kryzic) of the forthcoming Introductory Soil Science E-textbook for Canadian students. This project began during Dr. Walley's time as president of the CSSS and came from her long experience as an instructor at the first- and second-year level in soil science at U. of Saskatchewan. Although many instructors prefer teaching at upper-year levels, Dr. Walley believes strongly in the importance of introductory teaching and has been a superb teacher of introductory courses.

In addition to her classroom contributions Dr. Walley has also been a leader in administration at the department, college and university levels. One noteworthy aspect of her time as department head was her championing of award nominations for her faculty colleagues and they received numerous college, university, and societal awards under her leadership. This raises the profile of the department and the discipline and ensures that soil science remains a well-respected member of the university and scientific community. In her role as Associate Dean (Academic) she has been a strong advocate for Indigenous students and programming in the college and served on several university initiatives in this area. She introduced an innovative diploma program for Indigenous land managers and participates directly in this program as well.

Dr. Fran Walley has made a deep and lasting impact on the soil science community and is a very worthy recipient of a Fellowship in the Canadian Society of Soil Science.

## 2021 CSSS Fellow Award (Con't.)



Dr. Newton Lupwayi

### **Dr. Newton Z. Lupwayi**

Newton Z. Lupwayi is a Research Scientist with Agriculture and Agri-Food Canada with more than 25-yr of service, first at the Beaverlodge Research Farm and currently at the Lethbridge Research and Development Centre in Alberta. Dr. Lupwayi has a B.Sc. in Agricultural Science from the University of Malawi, and received his M.Sc. in Soil Chemistry and Fertility from the University of Aberdeen in Scotland before obtaining a Ph.D. in Soil Microbiology from Lincoln University, New Zealand.

A long-standing member of CSSS for more than 20 years, Dr. Lupwayi has made significant contributions to soil science in Canada. He is widely-known across Canada, and internationally for his leading research on soil microbial community composition, diversity, and functioning in agroecosystems. Particularly, he evaluates the environmental sustainability of crop nutrition and crop protection strategies by observing the impacts of agricultural practices on the soil microbiome. For example, his recent work on “Profiles of wheat rhizobacterial communities in response to repeated glyphosate applications, crop rotation, and tillage” was recognized with the 2021 Editor’s Choice award from the Canadian Journal of Soil Science. Furthermore, Dr. Lupwayi is a renowned expert on nutrient release from organic soil amendments (including crop residues), biological nitrogen fixation, and endophytic bacteria.

Throughout his distinguished career, Dr. Lupwayi has been actively involved in CSSS Council as its Secretary (2006-08) and then as Editor (2015–16), and Editor-in-Chief (2017–18) of the Canadian Journal of Soil Science. On many occasions, he has judged student oral and poster presentations as CSSS Annual Meetings. He has provided research training to many summer and cooperative education students over the years, and supervised two post-doctoral fellows working on soil microbiology. In addition, he was active in the provincial Alberta Soil Science Workshop Organizing Committee for 4 years, and was the Chair for its 50th Anniversary Workshop in 2013. Dr. Lupwayi did an exemplary job of leading the organization of a memorable and exciting meeting that celebrated half a century of advances in soil science.

Dr. Lupwayi is a prolific researcher of international stature who produces award-winning, highly-cited papers that advance our knowledge of soil biological health in innovative agricultural systems. He has been recognized on three occasions with “Best Paper” awards from the Canadian Journal of Plant Science. In addition to his leadership at the helm of the Canadian Journal of Soil Science, he is a long-time Editorial Board member of the top-ranked international journal Agriculture, Ecosystems & Environment, and was a 4-yr Associate Editor for Agronomy Journal. With the surge in interest in soil health in recent years, Dr. Lupwayi has become a highly sought-after speaker for farmer conferences and workshops in Alberta, and across the Prairie provinces. He effectively communicates the complexity of soil ecosystems to a general audience, and as such serves as a ‘soil ambassador’ to the community at large. It is with great pleasure that the CSSS acknowledges Dr. Newton Z. Lupwayi’s fine qualities and dedication to soil science by bestowing upon him the prestigious honour of CSSS Fellow for 2021.

## 2021 CSSS Fellow Award (Con't.)



Dr. Don Flaten

### **Dr. Don Flaten**

Don Flaten (Ph.D., FASA, FCSSS; Retired Professor at the University of Manitoba) has been a member of the CSSS since 1978 and has continually been generous with his time and talents to the society. Don's contributions to the CSSS include service as Treasurer (2003-2008), Chair of the local arrangements committee for the 2013 Annual Meeting Conference in Winnipeg, authored 18 papers in CJSS, more than 37 manuscript reviews for CJSS, and the 2009 recipient of the CSSS Soil Science for Society Award.

Don cultivated his interest in agronomy while growing up and contributing to the family farm near Weyburn, Saskatchewan. He received his B.S.A. (1978), Agronomy Major, with Great Distinction from the University of Saskatchewan, and Ph.D. (1989) in Soil Science from the University of Manitoba. Between these academic milestones, Don was a District Agriculturist (1978-1980) in Alberta and the Provincial Soil Specialist (1984-1987) in Saskatchewan. Don has worked in and/or visited many of the rural municipalities in the Prairies throughout his career. Students are often pleasantly surprised that he knows their family farm and also that of their relatives.

Dr. Flaten is nationally and internationally recognized for his research in soil fertility processes, especially phosphorus dynamics in Prairie soils and production systems. Don has also been recognized for his career contributions as a Fellow of the American Agronomy Society. Don is known for his unparalleled commitment to teaching excellence and student success with every student at the Diploma, Degree and Graduate level in Manitoba since 1998, learning soil fertility from him. This dedication and care to students is recognized with 12 major teaching awards. His service to the University of Manitoba has included being the Director of the School of Agriculture (1987-1999), Associate Dean in the Faculty of Agricultural and Food Sciences (1990-1994), Chair of the National Centre for Livestock and the Environment (2008-2012), Chair (2012-2019) and Student Advisor (2014-2019) of the Agronomy Major Degree Program. Dr. Flaten continues to be frequently sought for his insightful, sound, and practical advice in soil fertility to farmers and industry on the Prairies. His contributions to extension have been recognized in eight major outreach awards.

## 2021 CSSS Fellow Award (Con't.)



Dr. Bing Si

### Dr. Bing Si

Dr. Si obtained his B.Sc and M.Sc in China, and in 1998 he earned his Ph.D from the University of Guelph. He started his academic career at the University of Saskatchewan as Assistant Professor in 2000 and was promoted to Associate Professor in 2005 and Professor in 2009. Over the past 21 years, Dr. Si made a significant and measurable impact in serving CSSS.

Dr. Si is recognized internationally for his contributions to soil physics and ecohydrology. Dr. Si is especially known for characterizing soil spatial variability at the landscape scale, unraveling the “hidden” ecohydrological function of deep soil, and revealing the “unseen” eco-pedological impact of minor textural contrasts in a soil profile. He developed the theoretical relationship between water-conducting soil macroporosity and infiltration rates. His research on soil thermal properties and their interactions with other soil properties and processes has improved the performance of land surface models. He pioneered quantification of ecohydrological processes in deep soil, the results of which are incorporated into the crop rotation planning by farmers and reforestation policies and practises in Canada and China. He has created a sub-field of soil science: quantifying scale-specific variability in the landscape to unravel the complex interaction of underlying soil processes. His findings on the impact of minor textural contrasts across a soil profile have been utilized by industries operating in Canada’s oil sands to improve biodiversity and in-turn the success of post- mining reforestation, saving these companies millions of dollars.

Dr. Si is a popular and supportive supervisor, a mentor, and an extraordinary teacher to his students. Dr. Si is dedicated to student success and to ‘soil’. Soil physics is often viewed as an intimidating subject. He makes his teaching approachable to many students through inclusion of conceptual models, lab experiences and field trips, photos and videos, in-class discussions and critical analysis of facts, myths, and misconceptions in soil science. Dr. Si has developed graduate courses based on current developments in soil science, such as a course in spatial statistics, and ecohydrology.

Additionally, he has developed a joint-training program between China Scholarship Council and University of Saskatchewan. Dr. Si has trained a new generation of soil scientists who carry his legacy and expand their research programs in different corners of the world, advocating for Canadian soil science education. 15 of his PhDs and PDFs have secured positions in Canada, China, Japan, and New Zealand.

Dr. Si has been an Associate Editor for the Canadian Journal of Soil Science, and an editor for their special issues. He has co-authored publications sponsored by the CSSS and has contributed more than 20 papers to the Canadian Journal of Soil Science. Dr. Si has also served as an editor and associate editor for several international journals.

Dr. Si is one of those few soil scientists that make such a multifaceted contribution to our discipline. Dr. Si’s deep commitment to research and teaching of soil science is an example of exemplary service and speaks of a broad and substantive contribution to the public.

## 2021 CSSS Fellow Award (Con't.)



Dr. Jim Miller

### Dr. Jim Miller

Dr. Jim Miller is currently an Honorary Research Scientist with Agriculture & Agri-Food Canada (AAFC) at the Lethbridge Research & Development Centre, Lethbridge, AB. Prior to his retirement in March 2020, he was a Senior Research Scientist in Water Quality with AAFC. He earned B.Sc. and M.Sc. degrees from the University of Saskatchewan, and a Ph.D in Soil Science from the University of Alberta (1989).

Jim has been an active member of CSSS since 1985 (37 years). He served as Western Councillor and supervised the CSSS website (2006–07), sourcing and uploading photographs of past CSSS Fellow awardees. He actively supports the CSSS Annual Meetings, presenting many orals and posters over the years, while also judging student competitions. Jim is an ardent champion of the Canadian Journal of Soil Science publishing 45 papers in the journal since 1985, an incredible 40 of them as first author, which is a record in the journal's history.

Jim has achieved a significant and lasting career legacy since joining AAFC in 1991. He is internationally recognized for his innovation and impact in agri-environmental research, focusing on soil and water quality, soil productivity and biodiversity, and manure and fertilizer beneficial management practices. His goals always strived to reduce environmental threats from excess nutrients, pathogens or pesticides. Jim's early research demonstrated the benefits of no-till, which further encouraged its adoption on the Canadian prairies. The field experiment he established in 1998 on optimum rates of stockpiled and composted beef feedlot manure for irrigated cropping is ongoing some 23 years later and has generated many valuable research papers and conference presentations.

A career highlight for Jim was his 9 years at the helm of the Alberta watershed of the national Watershed Evaluation of Beneficial Management Practices (WEBs) project (2004–13). Under his guidance, this multi-agency project assessed the impact of streambank fencing, off-stream livestock watering, perennial land cover, manure management, and riparian buffer strips, on water quality in the Lower Little Bow watershed. The WEBs project garnered a national and international reputation for cutting-edge watershed-scale research. It's success led to its integrated template, bringing researchers and farmers together, being embraced by AAFC's new Living Labs Initiative.

## CSSS Student Book Award

This award recognizes undergraduates at Canadian universities who demonstrate excellence in Soil Science. Award winners receive a copy of Soil Sampling and Methods of Analysis (2nd Edition), published jointly by CSSS and CRC Press in 2007 <http://www.crcpress.com/product/isbn/9780849335860>

The 2021 winners of the CSSS Student Book Award are- Rosalie Boissonneault (Laval University); Maia Rothman (McGill University); Julia Martel (Université du Québec à Chicoutimi); Emily Anne Reich (University of Alberta); Fernanda Diaz Osorio (University of British Columbia); Joshua Weber (University of Guelph); Gabriella Penner (University of Manitoba); Helga Holler-Busch (University of Northern British Columbia); Joshua Leffers (University of Saskatchewan); Tanzeel Sultan (University of Toronto Scarborough). Congratulations to all the 'future soil scientists'.



## Upcoming Conferences

For Information, about the Student Travel Awards click: <https://csss.ca/awards-criteria/#StudentTravelAwards>

To apply for a travel award, download the MSWord document Student Travel Application: [https://csss.ca/wp-content/uploads/CSSS\\_student\\_travel\\_award\\_application\\_2021\\_International.docx](https://csss.ca/wp-content/uploads/CSSS_student_travel_award_application_2021_International.docx)

### **International Conference for Women in Science Without Borders**

3-5 November 2021, Nairobi, Kenya

The University of Embu will host the 6th International Conference for Women in Science Without Borders from November 3rd to 5th 2021 in Nairobi. Women in Science Without Borders (WISWB) is a gender-inclusive initiative and network of scientists from over 60 countries worldwide. This is a conference series held annually under the World Forum for Women in Science (WFWS). The conference will be an opportunity to highlight the role of science in building a sustainable future for all through science, technology, and innovation.

Read more: <https://awardfellowships.org/news/the-sixth-international-conference-for-women-in-science-without-borders/>

[From: ASA-CSSA-SSSA Science Policy Report]

### **Eurosoil 2021**

Connecting People and Soil Online in 2021 – sponsored by the The European Confederation of Soil Science Societies (<https://soilscience.eu/>), the Eurosoil 2021 Virtual Congress will be held August 23-27, 2021.

The objective of Eurosoil 2021 is to bring together, in a safe online space, leading research scientists working on soil related topics and stakeholders dealing with issues of public concern, such as soil degradation and consequences of climatic changes. The important bridging role of soil practitioners to translate scientific knowledge into practice will be emphasised during the virtual edition of Eurosoil 2021. For more information about the conference see Eurosoil 2021 Virtual Congress <https://eurosoil-congress.com/>

Student Travel Awards: The Canadian Society of Soil Science (CSSS) and the Canadian Journal of Soil Science (CJSS) jointly sponsor two awards annually to provide travel funds for student members of CSSS to attend an international soil science meeting.

### **3rd Global Soil Biodiversity Conference**

Science as a basis for the sustainable use and conservation of soil biodiversity – sponsored by the Global Soil Biodiversity Initiative <https://www.globalsoilbiodiversity.org/>  
November 1-3, 2021; Dublin, Ireland

The 3rd Global Soil Biodiversity Conference will provide the latest updates on soil biodiversity research and knowledge for scientists, policy makers, regulators, environmental agencies, conservationists, land user managers and other stakeholders in the sustainable use and conservation of soil biodiversity.

For more information about the conference see GSB2021 <http://gsb2021.ie/>

Student Travel Awards: The Canadian Society of Soil Science (CSSS) and the Canadian Journal of Soil Science (CJSS) jointly sponsor two awards annually to provide travel funds for student members of CSSS to attend an international soil science meeting.

## Upcoming Conferences (Con't.)

### **2021 ASA, CSSA, SSSA International Annual Meeting**

Sponsored by the American Society of Agronomy, the Crop Science Society of America, and the Soil Science Society of America

November 7-10, 2021; Salt Lake City, Utah OR Limited Virtual

For more information see ACS 2021 <https://www.acsmeetings.org/about>

Student Travel Awards: The Canadian Society of Soil Science (CSSS) and the Canadian Journal of Soil Science (CJSS) jointly sponsor two awards annually to provide travel funds for student members of CSSS to attend an international soil science meeting.

### **XXV Dokuchaev Conference for Young Scientists - Soil is life**

1–3 March 2022, St. Petersburg, Russia

The conference form will be face-to-face reports with live stream on Zoom and on-line. Languages of the conference will be Russian and English. Issues of the providing by soils of plants', animals' and people's life and health, the importance of living organisms for soil formation, interactions of mineral, organic substances and living organisms in the soil, the composition and properties of soils, the soil diversity and the geographical distribution of soils, functional relationships in nature, ecosystem functions of soils, the soil-saving crop cultivation, the soil destruction both as a result of natural processes and under the influence of irrational human actions, the protection of soil from its destruction, the fight against fertility decline, soil restoration, the spread and the application of soil knowledge will be considered.

Read more: <http://www.dokuchaevskie.ru/>

[From: ASA-CSSA-SSSA Science Policy Report]

## Dr. Ken Van Rees Retiring



Dr. Ken Van Rees & Students

Dr. Ken Van Rees has announced his retirement from the Department of Soil Science, University of Saskatchewan, after 31 years of years of teaching, research, and being a friend and colleague to so many of us. Ken was our department Head for several years, is well known for his excellent instruction, and as an innovator in teaching and learning. Ken's retirement leaves a hole in our department that will not be easily filled. Congratulations Ken on a successful career and all the best going forward.

Tom Yates, Department of Soil Science, University of Saskatchewan

## Job Opportunities

### Soils Analyst

Ministry of Environment & Climate Change Strategy Victoria

Working under the general direction of the unit supervisor, the Soils Analyst analyses a variety of environmental, agricultural and forestry soil, plant, and water samples. This position is the primary operator for the combustion, colorimetric autoanalyzer's and UV-vis spectrophotometer instruments and the secondary operator of the instruments primarily operated by the Metals Analyst and the Organic Analyst.

For more information and to apply online by July 30, 2021, please go to:

<https://bcpublicservice.hua.hrsmart.com/hr/ats/Posting/view/77238>

### Master's student position in Soil Science at the University of Saskatchewan

**Project Title:** Intercropping pea with canola or oat: impact on nitrogen, disease and economics  
Drs. Diane Knight (University of Saskatchewan) and Kui Liu (AAFC-Swift Current) are seeking 1 MSc student. The student will be responsible for evaluating biological nitrogen fixation, nitrogen transfer and nitrogen recovery in the legume/cereal intercrops. The student will take classes at the University of Saskatchewan in Saskatoon, SK. Research activities will occur primarily from the Swift Current Research and Development Centre, AAFC in Swift Current, SK.

**Timeline:** A start date of January 4, 2022 with expected completion by March 2024.

**Position Requirements:** All individuals applying should have:

- BSc in Soil Science, Crop Science or a related field from a recognized university with a minimum GPA of 70%
- Excellent written and verbal communication skills
- An ability to work with others in a team environment
- Willingness to engage in problem solving, data analysis and thesis development
- Ability to work in the field for extended periods

**Annual stipend:** starting \$21,500 with annual increase based on satisfactory performance

**How to Apply:** Interested candidates should send a copy of transcripts, CV, and statement of research experience and interests (1 page limit) with the names of three references to: Dr. Diane Knight ([diane.knight@usask.ca](mailto:diane.knight@usask.ca)) and Dr. Kui Liu ([Kui.Liu@AGR.GC.CA](mailto:Kui.Liu@AGR.GC.CA)). The successful candidate will be directed to apply to the University of Saskatchewan Master's program.

### University of Guelph, Ontario Agricultural College, Department of Plant Agriculture Graduate Research Assistantship (GRA), Sustainable vegetable production: cover crops and soil health

There is a GRA opening in the Department of Plant Agriculture for pursuing an MSc. in horticulture and soil health, for Canadian domestic students.

More information is available at the link below:

[https://mcusercontent.com/ca7fd4410b9dab34e3ef8b381/files/bfd25cb3-564c-0e3f-b255-961d14b45e02/Grad\\_student\\_ad\\_Cover\\_crops\\_and\\_soil\\_health.pdf](https://mcusercontent.com/ca7fd4410b9dab34e3ef8b381/files/bfd25cb3-564c-0e3f-b255-961d14b45e02/Grad_student_ad_Cover_crops_and_soil_health.pdf)

## Canadian Journal of Soil Science

We have been working to elevate the Canadian Journal of Soil Science and just released impact factors for 2020 show we are moving in the right direction. CJSS went up from 1.171 to 1.522!

We need you to keep going upward. CJSS is our journal, and together we can make it one of the best for soil science.

Thank you to those who are publishing in our journal. It is because of you we are growing.

I invite you all to contact me with your ideas; any special issue topics you think would be timely and important; potential review articles; other creative types of publications; suggestions for authors you would like me to invite to contribute to the journal. Of course, we also want submissions of your high quality work as regular manuscripts!

Please let your graduate students know we can cover a few manuscripts each year for publications from their PhD and MSc research. There are also a few opportunities a year for free publications for our retired colleagues.

Thank you all!

M. Anne Naeth, CJSS Editor-In-Chief



CANADIAN SOCIETY OF SOIL SCIENCE  
SOCIÉTÉ CANADIENNE DE SCIENCE DU SOL

## CSSS - Business Office

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