

CPS • SCP News



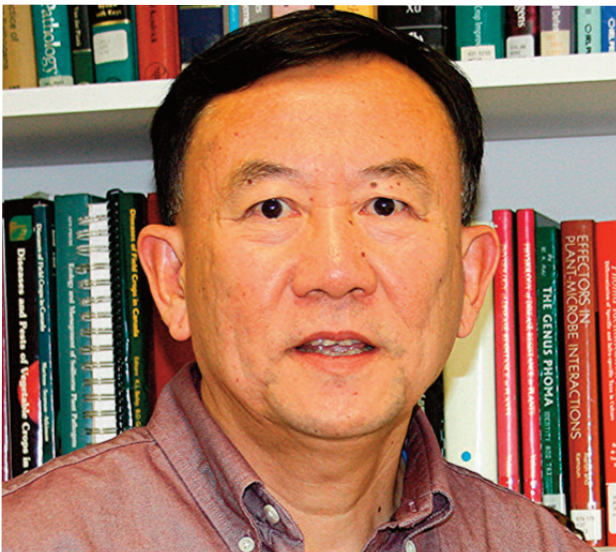
CANADIAN PHYTOPATHOLOGICAL SOCIETY • SOCIÉTÉ CANADIENNE DE PHYTOPATHOLOGIE

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President's Message



Gary Peng

CPS-SCP President/président

As we welcome the official start of spring today, I understand that it might not feel like it in some parts of our vast nation. Nevertheless, I hope you're all gearing up for the excitement of field research and the chance to work in our own backyards.

I want to take this opportunity to remind everyone about Plant Canada 2024. The event promises to be an enriching experience for all involved. You can find all the necessary information on the CPS website

(<https://phytopath.ca/meetings/plant->

Inside this issue:

President's Message	1
Message de le président	3
Society Business	
Report from the Nominating Committee	5
Educational Video Awards	6
Photography and Image Awards	9
The Glenn Anderson Lectureship at ICPP 12	11
Meetings	
Plant Canada 2024	11
CPS Atlantic Region Meeting	15
CPS Manitoba Region Meeting	16
Scholarships	
Call for Applications: Storkan-Hanes-McCaslin Research Foundation Awards	17
Careers	
University of Manitoba, Assistant or Associate Professor	19
PEI Department of Agriculture, Research Scientist	22
Young Scientists' Corner	25
Publications	
ISPP	26
Entomological Society of Canada	28
Contact the Editors	30

canada-2024/), including early-bird registration prices available until **April 15, 2024**. Don't forget that the abstract submission deadline is **May 17** for both oral and poster presentations. For our student and postdoc members, there are additional savings if you renew your membership before registering for

“I want to take this opportunity to remind everyone about Plant Canada 2024. The event promises to be an enriching experience for all involved... Check out the conference details for more information.”

the conference. Check out the conference details for more information. This year, in addition to the Plant Canada banquet, we will also host the CPS Awards Banquet separately. To ensure accessibility for all our members, the CPS board has decided to reduce the price of the Awards Banquet to \$75/person (CPS members only), thanks to subsidies provided by the society.

Our regional groups have been incredibly active over the past year, organizing numerous local and regional meetings. These events are highly important, and are an integral part of our society's activities, particularly for our student and postdoc members. CPS is committed to supporting these events and providing proper financial assistance whenever necessary. Moreover, the CPS board has approved sponsorship for other local events, including the 2024 Claudia Sheedy Graduate Symposium at AAFC Lethbridge Research and Development Centre and the 2SLGBTQ+ in STEM Conference at the University of Regina. We believe these initiatives help foster inclusivity and diversity, as well as the visibility of CPS, within our research community.

On the topic of fostering inclusivity and diversity, the CPS board has recognized the necessity of developing a code of conduct. Many organizations, such as the American Phytopathological Society (APS), have

already established their own codes, delineating expected standards of behavior regarding

professionalism and integrity. By clearly defining these expectations, CPS can uphold the highest standards within the field of plant disease research and management, fostering a supportive and ethical environment that benefits all its members and stakeholders. This initiative aids in maintaining the integrity of research, promoting respectful communication and interaction, and cultivating a culture of inclusivity and diversity. By adhering to the code, CPS demonstrates its commitment and a positive image within the scientific community and beyond. An ad-hoc committee has been formed to review the APS document and develop a code of conduct for CPS. We anticipate having a draft ready for member review and feedback before our annual meeting.

Lastly, I am delighted to report that our society continues to maintain a healthy financial position. The preliminary figures for 2023 show a net profit of \$45K. The board has been managing our finances prudently, with much of our funds invested in GICs to capitalize on current high-interest rates. However, we have ensured that we have sufficient cash reserves to handle high-cost activities such as Plant Canada 2024 and

the production of the 4th edition of Diseases of Field Crops in Canada. A detailed financial report will be provided at this year's Annual Meeting of Members. In the meantime, if you have ideas and suggestions on how we can leverage this strong financial standing to further the impact and reach of CPS, please let us know. Your input will be carefully considered by the CPS board as we work together to maximize the opportunities afforded by our financial stability.

I look forward to seeing each and every one of you at Plant Canada 2024 in Winnipeg this July.

Warm regards,

Gary Peng
President of CPS
Research Scientist
Saskatoon Research and Development
Center
Agriculture and Agri-Food Canada



Message de le président

Comme nous accueillons aujourd'hui l'arrivée officielle du printemps, je peux concevoir que ce n'est pas exactement le cas dans certaines régions de notre vaste pays. Néanmoins, j'espère que vous anticipez tous avec fébrilité la reprise de la recherche sur le terrain et la chance de travailler dans vos propres jardins.

Je veux profiter de cette occasion pour rappeler à tous la tenue de Plant Canada 2024. L'événement promet d'être enrichissant pour toutes les personnes concernées. Vous trouverez toute l'information nécessaire sur le site Web de la SCP (<https://phytopath.ca/meetings/plant-canada-2024/>), y compris les frais d'inscription hâtive, et ce, jusqu'au **15 avril 2024**. N'oubliez pas que la date butoir pour la soumission des résumés pour les présentations orales et des affiches est le **17 mai**. Les étudiants et les postdoctorants membres peuvent bénéficier d'économies

supplémentaires s'ils renouvellent leur adhésion avant de s'inscrire à la conférence. Pour obtenir de plus amples renseignements, surveillez les détails de la conférence. Cette année, nous organiserons le banquet de remise des prix de la SCP séparément de celui de Plant Canada. Afin de permettre à tous les membres d'y assister, le conseil de la SCP a décidé de réduire le prix du banquet de remise à 75 \$/personne (membres de la SCP seulement), grâce aux subventions octroyées par la Société.

Nos groupes régionaux ont été extrêmement actifs au cours de la dernière année, organisant de nombreuses réunions locales et régionales. Ces événements sont très importants et font partie intégrante des activités de notre société, spécialement pour les étudiants et les postdoctorants membres. La SCP s'est engagée à soutenir ces événements et à les appuyer

financièrement de façon adéquate partout où le besoin se fait sentir. En outre, le conseil de la SCP a approuvé la commandite d'autres événements locaux, y compris le Symposium Claudia Sheedy 2024 pour les étudiants diplômés, qui se tient au Centre de recherche et de développement de Lethbridge d'Agriculture et Agroalimentaire Canada et la Conférence 2ELGBTQI+ dans les STIM, tenue à l'Université de Regina. Nous croyons que ces initiatives contribuent à promouvoir l'inclusivité et la diversité, aussi bien que la visibilité de la SCP au sein de notre communauté de recherche.

En ce qui a trait à la promotion de l'inclusivité et de la diversité, le conseil de la SCP a reconnu

la nécessité d'élaborer un code de conduite. Plusieurs organisations, comme la Société américaine de

phytopathologie (SAP), ont déjà adopté leurs propres codes, établissant des normes de conduite relatives au professionnalisme et à l'intégrité. En définissant clairement ces attentes, la SCP peut faire respecter les normes les plus exigeantes dans les domaines de la recherche sur les maladies des plantes et de la gestion, encourageant ainsi l'établissement d'un milieu favorable et respectueux de l'éthique, propice à tous ses membres et à tous ses partenaires. L'initiative contribue à maintenir l'intégrité de la recherche, promouvant une communication et une interaction respectueuses et valorisant une culture

d'inclusivité et de diversité. En adhérant à ce code, la SCP démontre son engagement et projette une image positive au sein de la communauté scientifique et bien au-delà. Un comité ad hoc a été créé pour étudier le document de la SAP et élaborer un code pour la SCP. Nous espérons avoir une version à présenter à nos membres avant l'assemblée annuelle afin qu'ils l'étudient et nous fassent part de leurs commentaires.

Finalement, je suis ravi de vous annoncer que notre société affiche toujours une solide situation financière. Les chiffres préliminaires pour 2023 indiquent un profit de 45 000 \$. Le conseil a géré prudemment nos finances, la plupart de nos fonds ayant été investis dans des CPG afin de profiter

des taux d'intérêt élevés. Toutefois, nous nous sommes assurés d'avoir des réserves de liquidités suffisantes pour assumer le coût élevé d'activités

“Je veux profiter de cette occasion pour rappeler à tous la tenue de Plant Canada 2024... Pour obtenir de plus amples renseignements, surveillez les détails de la conférence.”

comme Plant Canada 2024 et la publication de la 4e édition de Maladies des grandes cultures au Canada. Un rapport financier détaillé vous sera présenté à l'assemblée annuelle des membres. D'ici là, si vous avez des idées ou des suggestions sur la façon de tirer parti de cette solide situation financière afin d'accroître l'influence et d'élargir le rayonnement de la SCP, s'il vous plaît, faites-le-nous savoir. Votre contribution sera sérieusement étudiée par le conseil, puisque nous travaillons tous de concert pour maximiser les possibilités offertes par notre stabilité financière.

Je me réjouis à l'avance de vous rencontrer toutes et tous à la conférence de Plant Canada 2024 à Winnipeg en juillet.

Meilleures salutations,

Gary Peng, président de la SCP

Chercheur scientifique
Centre de recherche et de développement
de Saskatoon
Agriculture et Agroalimentaire Canada



Society Business

Report from the Nominating Committee

Dear CPS Members,

The Nominating Committee has received and endorsed the following nominations for two positions on the Board of Directors starting in 2024:

Board of Directors, Vice President: Stephen Strelkov

Board of Directors, Junior Director: Rudolph Fredua-Agyeman

There were two nominations for the **Treasurer** position, Michelle Hubbard and Mindy Liu. Therefore, you will receive the ballots and relevant information to vote for your preferred nominee shortly.

For Awards Committee:

Linda Jewell is nominated as a new member.

For Nominating Committee:

Brent McCallum has agreed to stay on for another term.

All above nominations/appointment will require the final approval by members at the AMOM in July.

No nomination was received for a vacant position on the Resolutions Committee; if you have a candidate in mind, please let me know as soon as possible, or nominate the person during the AMOM.

If you have any questions, please contact Sheau-Fang Hwang, the Chair of Nominating Committee at sheau.fang.hwang@ualberta.ca.

Submitted by Tom Fetch
Secretary, CPS board



The Canadian Phytopathological Society Best Educational Video Awards 2024

Eligibility

All graduate students, undergraduate students, research technicians, and post-doctoral fellows conducting their research in plant sciences/plant pathology at a Canadian institution are eligible for the awards. However, preference may be given to CPS members. All videos will be viewable during the 2024 CPS Annual Meeting and posted on the society's web page.

Rules

- 1 The video should be focused on a plant disease and must include the host(s), the pathogen, the symptoms, and signs on the host(s).
- 2 The video may be in English or French.
- 3 The video should be entertaining, engaging, and easy to understand by high school and undergraduate students. Creativity is highly encouraged.
- 4 The video should be no longer than 5 minutes in length.
- 5 Only one submission per participant will be considered.
- 6 By submitting a video file you indicate your agreement to share the video on the Canadian Phytopathological Society's website and social media channels. Additionally, permission will be granted to share this video with educational institutes worldwide. You retain the right to post and share your own video on your own social media channels.

Deadline

11:59 PM ET, July 5, 2024

How to submit your video?

Email your video (.MOV, .MPEG4, .MP4, or .AVI) and the following application form to CPS.Education.Committee@gmail.com. If the size of your file is too large to submit by email, please email this address for further instructions about how to submit.

Awards

First Prize: \$500, Second Prize: \$300, Third prize: \$200

All entries will be judged by the CPS Education Committee.

The awards will be presented at the Awards Ceremony during the 2024 Plant Canada Meeting in Winnipeg.

Société Canadienne de Phytopathologie 2024 Prix de la meilleure vidéo éducative

Admissibilité

Tous les étudiants diplômés, les étudiants de premier cycle, les techniciens de recherche et les boursiers postdoctoraux menant leurs recherches en phytopathologie / pathologie végétale qui travaillent ou étudient dans un établissement canadien sont éligibles. Toutefois, la préférence peut être donnée aux membres de la SCP. Toutes les vidéos seront diffusées lors de l'assemblée annuelle de la SCP en 2024 et affichées sur la page Web de la société.

Règles

- 1 La vidéo doit être centrée sur une maladie de la plante et doit inclure le ou les hôtes, l'agent pathogène, les symptômes et les signes apparaissant sur l'hôte ou les hôtes.
- 2 La vidéo peut être en anglais ou en français.
- 3 La vidéo doit être divertissante, attrayante et facile à comprendre pour les étudiants du secondaire et du premier cycle. La créativité est fortement encouragée.
- 4 La vidéo ne doit pas durer plus de 5 minutes.
- 5 Une seule candidature par participant sera prise en compte.
- 6 En soumettant un fichier vidéo, vous indiquez que vous acceptez de partager la vidéo sur le site Web phytopath.ca et sur les médias sociaux. De plus, nous aurons le droit de partager cette vidéo avec des instituts de éducation du monde entier. Vous conservez le droit de publier et de partager votre vidéo sur vos propres canaux de médias sociaux.

Date limite

23:59 ET, 5 juillet, 2024

Comment soumettre votre vidéo?

Envoyez votre vidéo (.MOV, .MPEG4, .MP4 ou .AVI) et le formulaire de demande suivant à CPS.Education.Committee@gmail.com. Si la taille du fichier de votre vidéo est trop grand pour être envoyée par e-mail, veuillez envoyer un e-mail à cette adresse pour obtenir des instructions supplémentaires sur la manière de soumettre.

Prix

Premier Prix: 500\$, Deuxième Prix: 300\$, Troisième Prix: 200\$

Toutes les inscriptions seront jugées par le comité d'éducation de la SCP.

Les prix seront présentés à la cérémonie de remise lors de la réunion de 2024 de Plant Canada en Winnipeg.

Educational Video Award Application Form/ Formulaire d'application de vidéo éducative



THE CANADIAN PHYTOPATHOLOGICAL SOCIETY

LA SOCIÉTÉ CANADIENNE DE PHYTOPATHOLOGIE

NAME/NOM: _____

DEGREE or POSITION/GRADE ou POSITION: _____

INSTITUTION: _____

DEPARTMENT/DÉPARTEMENT: _____

Mailing Address /Adresse postale: _____

e-mail address/Courriel: _____

Are you a student member of the CPS/Êtes-vous étudiant membre de SCP?

Yes/Oui or No/Non

Title of your Video/Titre de votre vidéo: _____

Contest Terms / Conditions du concours

By submitting a video file you indicate your agreement to share the video on the Canadian Phytopathological Society's website and social media channels. Additionally, permission will be granted to share this video with educational institutes worldwide. You retain the right to post and share your own video on your own social media channels.

En soumettant un fichier vidéo, vous indiquez que vous acceptez de partager la vidéo sur le site www.phytopath.ca et sur les médias sociaux. De plus, il sera autorisé à partager cette vidéo avec des instituts de formation du monde entier.

The Canadian Phytopathological Society Photography and Image Awards 2024

Eligibility

All students and professionals within the fields of plant sciences and plant pathology are eligible for the awards. However, preference may be given to CPS members. All photos will be posted on the society's web page and social media channels.

Rules

- 1 The image should be clearly show elements relative to the submission category.
Categories:
 - Plant Pathology in the Field
 - Plant Pathology in the Lab
 - Microscopic Plant Pathology
 - People in Plant Pathology
 - Art in plant pathology
- 2 The image must be accompanied with a description, which should include plant and/or pathogen names.
- 3 Participants may submit photos to multiple categories (one image per category). Participants will be limited to a maximum of one award each.
- 4 By submitting an image file you indicate your agreement to share the image on the Canadian Phytopathological Society's website and social media channels. Additionally, permission will be granted to share these images with educational institutes worldwide. You retain the right to post and share your own image on your own social media channels.

Deadline:

11:59 PM PT, July 5, 2024

How to submit?

Email your image (.JPEG, .TIFF, .PNG, .BMP) and description to CPS.Education.Committee@gmail.com OR post on Twitter or Instagram with the hashtag #CPSphotos2024. Please clearly identify the submission category and in your email or in the description accompanying your post.

Award

Entries will be judged in each category. All entries will be pre-judged by the CPS Education Committee, and winners from each category will be selected by popular vote during the 2024 Plant Canada Meeting, and award winners will be announced during the awards ceremony.

For each category: First prize: \$75; Second Prize: \$45

Société Canadienne de Phytopathologie 2024 Prix pour les photos et images

Admissibilité

Tous les professionnels des domaines de la phytologie et de la phytopathologie sont éligibles. Toutefois, la préférence peut être donnée aux membres de la SCP. Toutes les images seront affichées sur la page Web de la société.

Règles

1 La photo doit clairement montrer les éléments relatifs à la catégorie de soumission.

Catégories:

- Phytopathologie sur le terrain
- Phytopathologie en laboratoire
- Phytopathologie microscopique
- Personnes en phytopathologie
- L'art en phytopathologie

2 La photo doit être accompagnée d'un fichier texte décrivant la photo, pouvant inclure des noms de plantes et / ou de pathogènes.

3 Les participants peuvent soumettre plusieurs photos (une pour catégorie). Les participants ne seront éligibles que pour un seul prix.

4 En soumettant des images, vous indiquez que vous acceptez de la partager sur le site Web phytopath.ca et les médias sociaux. De plus, l'autorisation sera accordée pour partager ces images avec des établissements d'enseignement mondiale. Vous conservez le droit de publier et de partager votre image sur vos propres canaux de médias sociaux.

Date limite:

23:59 PT, 5 juillet, 2024

Comment soumettre votre photo?

Envoyez votre photo par courrier électronique avec la description à

CPS.Education.Committee@gmail.com OU publier sur Twitter ou Instagram avec le hashtag #CPSphotos2024. Veuillez identifier clairement la catégorie de soumission et dans votre e-mail ou dans la description accompagnant votre message.

Prix

Les inscriptions seront jugées dans chaque catégorie par vote populaire lors de la réunion de Plant Canada. Les gagnants seront annoncés à la cérémonie de remise.

Pour chaque catégorie: Premier Prix: 75\$; Deuxième Prix: 45\$



Meetings

Save the Date: Plant Canada 2024



Please visit the conference website for updates! A tentative program is now available. We hope that you and your colleagues who work in plant science will join us for this multidisciplinary meeting!

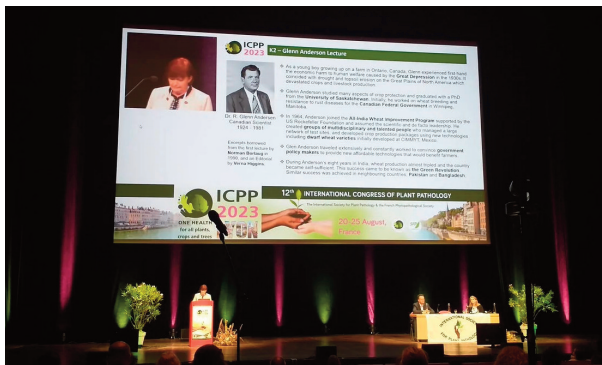
<https://www.plantcanada.ca/eng/meeting.html>



The Glenn Anderson Lectureship awarded to Dr. Bram Govaerts, CIMMYT, Mexico at the 12th International Congress of Plant Pathology 2023

The 12th International Congress of Plant Pathology (ICPP) was held in Lyon, France, from August 20 to August 25, 2023. It was attended by more than 2400 plant pathologists, including 550 PhD students, from 88 countries. Lyon is a beautiful city and easy to reach by air, train or car. The temperatures that week hit over 40°C on some days which made walking to the conference challenging and sightseeing was best in the morning or evening. Activities ran 8:30 AM - 7 PM most days. The Conference Centre included a large amphitheatre for plenary sessions and numerous meeting rooms for concurrent sessions. The more popular sessions were live streamed in the amphitheatre. Posters were displayed in an huge hall where people could view ~1000 posters in two separate sessions. Lunch and refreshments were provided in the hall through out the day, which allowed for interesting conversations with colleagues and collaborators. Congress themes included food security, invasive and emerging plant diseases, and global plant health assessment. Recognizable topics were molecular plant-

microbe interactions, host range of plant pathogens, genome editing, new developments in plant disease management, advances in monitoring, virology, bacteriology and forest pathology. A survey among participants showed the majority thought greatest progress in plant pathology had been in genome sequencing, genomics and gene editing; while main challenges included climate change adaptation, AI, biocontrol and genetic modification. Recordings of scientific presentations can be found in this link: <https://www.icpp2023.org/programme>. The abstract book can be accessed here <https://www.icpp2023.org/programme/abstracts-book>



Dr. Lone Buchwaldt introducing the Glenn Anderson lectureship at ICPP 2023

Glenn Anderson Lectureship: This lecture series honors Dr. Robert Glenn Anderson, an eminent Canadian scientist, who played a major role in the “Green Revolution”. Anderson began his scientific career in 1946 at the University of Saskatchewan and later at Agriculture Canada in Winnipeg. His interests were in entomology, plant breeding, genetics and rust resistance in wheat. In 1964, Dr. Norman Borlaug, Director of the newly formed International Maize and Wheat Improvement Center (CIMMYT) in Mexico, recruited Anderson to lead a wheat improvement

program in India which at the time had a 5-8 million ton wheat-deficit. With funding from CIMMYT, the Indian Council of Agricultural Research (ICAR), and the Rockefeller Foundation, Anderson’s leadership and vision resulted in accelerated research, education of new scientists, and training of growers, so that wheat production increased manyfold over a short number of years, which made tens of millions of people food-secure, and enabled India to export grain to neighbouring countries. The press and other media described this accomplishment the “Green Revolution”. Glenn Anderson was appointed Deputy Director of the CIMMYT Wheat Program in 1971, and Director in 1979 upon Borlaug’s retirement. Sadly in 1981, Glenn fell ill on a field mission to Zaire and returned home to Winnipeg where he died surrounded by his family. An endowment fund was established in his memory by the Canadian Phytopathological Society and the American Phytopathological Society. An invited lectureship is awarded at joint meetings between the two societies to a person with substantial contribution to securing the world’s food supply.

In 2023, the Glenn Anderson lectureship was awarded during the ICPP, to Dr. Bram Govaerts, the current Director General of CIMMYT. In addition, the CPS invited Dr. Fiona Doohan from University College Dublin, Ireland to give a talk in the same session. Dr. Lone Buchwaldt introduced Dr. Bram Govaerts on behalf of the CPS. The two presentations took place Monday August 21 in the Lyon Conference Centre Amphitheatre in a plenary session with the theme “Food security in an unsecure future”. A recording is available: [here](#)

The auditorium was full for the 2023 Glenn Anderson Lecture



Bram Govaerts' abstract:

AGRIFOOD SYSTEMS FOR A FOOD AND NUTRITION SECURE WORLD: FROM EFFICIENCY TO RESILIENCE

The 4Cs: Climate Change, Conflict, COVID-19 and the Cost-of-living crisis, have brought about the worst food security crisis of the 21st Century. Bram Govaerts discussed strategies to overcome these challenges in his keynote presentation. He talked about early warning and surveillance systems as an important defense to help build resilience to external shocks in food insecure communities and regions. Govaerts shared success stories implementing systems that have effectively prevented the spread of prevalent and emerging pests and diseases in sub-Saharan Africa and South Asia. In addition, he presented CIMMYT's work with national agricultural research systems and private sector partners on crop breeding programs that every year disseminate dozens of disease resistant and climate resilient maize, wheat and dryland crop varieties where they are most needed to supplement surveillance efforts. He will describe ongoing efforts to promote the adoption of conservation agriculture-based sustainable intensification practices that transform food systems with a gender and social inclusion approach in the Global South. The training offered and the advisory systems supported by CIMMYT's work aim to empower women and offer more opportunities for fulfilling livelihoods to a new generation of farmers who will grow sustainably nutritious food for all.

Fiona Doohan abstract:

THE BEAUTY AND COMPLEXITY OF WHEAT DISEASE CONTROL

Wheat has evolved distinct pathways, genes and systems to cope with particular pathogens. Pathogens such as *Fusarium* produce virulence factors, including the mycotoxin deoxynivalenol, to facilitate disease development. In turn, wheat has evolved genomic hotspots associated with disease responses and unique disease control strategies, including those involving taxonomically restricted genes and novel transcription factors. We now have the genomics tools to rapidly introgress these into commercial genotypes. Biocontrol also shows potential for the control of wheat diseases. Pathogens can have an intricate relationship with the host microbiome and endophytic microbes from wild crop relatives show potential for the control of diseases such as *Fusarium* head blight and *Septoria tritici* blotch. Now we are moving into an exciting era where we have the affordable tools to evaluate the relationships between the environment, crop biome, disease development and host genetic diversity across diverse ecosystems and this will give us new insights into plant-pathogen evolution and more refined solutions for disease control. Our work now moves to understanding the relationship between deoxynivalenol, wheat and the microbiome, with compelling indications that mycotoxins play an important role in regulating ecosystem interactions.



Bram Govaerts' Biography:

Bram Govaerts is Director General a.i. (Secretary General and Chief Executive Officer) of CIMMYT. Govaerts is renowned for pioneering, implementing and inspiring transformational changes for farmers and consumers in meeting the sustainable development challenges. He brings together multi-disciplinary science and development teams to integrate sustainable, multi-stakeholder and sector strategies that generate

innovation and change in agri-food systems. His work is geared toward transforming subsistence agriculture and failed farming systems into productive and sustainable production units, and has worked in multiple countries in Africa, Asia and Latin America. Together with a group of scientists, trainers, extension agents, collaborative farmers and communications and technology specialists, Govaerts developed a vision inspired by Norman Borlaug's motto "Take it to the Farmer": combining the right seed with the right conservation agriculture production practice embedded in an integrated market while recognizing and integrating farmer knowledge. Govaerts holds a PhD in Bioscience Engineering – Soil Science, a master's degree in Soil Conservation and Tropical Agriculture, and a bachelor's degree in Bioscience Engineering, all from Katholieke Universiteit Leuven, Belgium. In 2003, Govaerts received the Development Cooperation Prize from the Belgian Federal Government. In 2014 he was awarded the Norman Borlaug Award for Field Research and Application - endowed by the Rockefeller Foundation and awarded by the World Food Prize - for the development of sustainable agricultural systems. In 2018 he received the Premio Tecnoagro, awarded by an organization of 2,500 Mexican farmers. He is a member of the Sustainable Development Solutions Network and A.D. White Professor-at-Large at Cornell University. In 2020, Govaerts was elected as Fellow by The American Society of Agronomy (ASA) for his outstanding contributions to the field of agronomy.

Fiona Doohan's Biography:

Dr Fiona Doohan is Professor of Plant Health at University College Dublin (UCD), Ireland. Prof Doohan has a BSc in Industrial Microbiology from UCD, and a PhD from John Innes Centre / Open University in the UK. After a postdoctoral position at the John Innes Centre, she moved to UCD where she joined the faculty as a plant pathologist. Prof Doohan's research is focused on developing environmentally sustainable methods to increase cereal resilience, resistance to disease, and nutritional content. She has attracted more than 20 million € in funding for her research program, and secured over 10 million € for national doctoral training resulting in supervision of more than 32 PhD students. As a result, she has published over 100 peer-reviewed papers. She is also co-founder of the company CropBiome, focused on developing biologicals for the enhancement of crop productivity. Doohan was elected a member of the Royal Irish Academy in 2022, and listed in the top 100 female Irish scientists. She is a member of the Scientific Board of the Global Wheat Initiative, which was established under the direction of the G20 - a group of the world's major economies. It provides a framework to establish strategic priorities for wheat research at the international level for the benefit of both developed and developing countries.



CPS Atlantic Region Meeting 2023

The 2023 edition of the meeting of the Atlantic chapter of the Canadian Phytopathological Society, took place on November 23 at the Fredericton Research and Development Centre in Fredericton, NB. The meeting was hybrid in format, with both in-person and virtual presenters. The local host was Dahu Chen and he did an outstanding job arranging the meeting! There were 7 oral presentations on various topics in phytopathology presented in the afternoon, with a nutrition break to stimulate active discussion among participants. Those present in-person went to dinner after the meeting at Isaac's Way Restaurant in downtown Fredericton.

There were two co-winners of the Best Student Paper Award. Segun Babarinde won the award for his presentation entitled: "Population structure of the late blight pathogen *Phytophthora infestans* on potato and tomato in Canada". Leah Gauthier also won the award for her presentation entitled: "Battling *Fusarium* spp. with iChip: A novel approach to biopesticide discovery". Each student received a cheque for \$100 as a reward for their excellent presentations.

Many thanks to all who attended the meeting. After several years of absence due to the Covid-19 pandemic, we trust we will be able to get together on a regular basis in future, and on that note, plans are in place for Shawkat Ali to host the 2024 meetings in Kentville, NS on November 21, 2024. See you there!

Submitted by Rick Peters, Atlantic CPS rep



Segun Babarinde (left photo, left hand side) and Leah Gauthier (right photo, right hand side) were the co-winners of the Best Student Paper Award and received their awards from Atlantic CPS rep Rick Peters.



CPS Manitoba Region Meeting 2023



Minutes of the 2023 Manitoba Regional Meeting of the Canadian Phytopathological Society

Dec. 13th, Dept. Plant Science, University of Manitoba, Winnipeg, MB

The 2023 Manitoba Regional Meeting of the Canadian Phytopathological Society was held on December 13th at the University of Manitoba (Department of Plant Science, Faculty of Agricultural & Food Sciences). This meeting was attended by 42 people. Registration with coffee and muffins started at 9:00am.

After Dr. Fouad Daayf (Manitoba regional chair for CPS) welcomed the participants, there were three technical sessions:

1. Student Presentations (chaired by Dr. M. Sayari):

Multi-trait phenome assessment: high-dimensional time-series remote-sensing interpretation via observable unsupervised learning. S. HOLDEN, B. J. CASSONE, & J. R. TUCKER.

In vitro-assembled CRISPR-dual Cas9 ribonucleoprotein system for targeted gene deletion in Fusarium graminearum. A.U. JAYATHISSA, T. SHARMA, W. G. D. FERNANDO, M.G. BAKKER, & M.C. LOEWEN.

The evolutionary dynamics of azole resistance in Fusarium graminearum. K. WOG, M.G. BAKKER, & A.C. GERSTEIN.

Response of soil fungal communities associated with different soil fractions to tillage practices and crop rotation. M. MOHAMMADIANI, M.G. BAKKER, S. CRITTENDEN

Variation in the activity of feruloyl esterase from Fusarium graminearum on cinnamic acid ester derivatives. R. NELSON, G. MITCHELL-LAWSON, N. MELNICHUK, A.U. JAYATHISSA, & M.G. BAKKER.

A peep into the bacterial endophytes of barley under fusarium head blight disease. W.M.V.C. WEERASINGHE, J. R. TUCKER, A. BADEA, W.G.D. FERNANDO & C. WIJEKOON

Protecting Brassica napus against Sclerotinia sclerotiorum infection using a foliar application of boron. NATALIE L. CALE & MARK F. BELMONTE

2. Other members' morning presentations (chaired by Dr. M. Elshetehy):

Ascospore and pycnidiospore: which is the culprit for blackleg disease in Canada? S. HUANG, G. PENG, & W.G.D. FERNANDO

Understanding the interaction between blackleg resistance and verticillium stripe disease in canola. C.N. BVINDI, A. DOLATABADIAN, & W.G.D. FERNANDO

Hemoglobin Controls Defensive Responses in Flooding Conditions. M. ELSHETEHY, C. STASOLLA, & F. DAAYF

The effect of R gene rotation against Blackleg in Canola on disease severity. M. A. JAYAWARDANA, Z. ZOU, & W.G.D. FERNANDO

3. Other members' afternoon presentations (chaired by Dr. F. Daayf):

Differential Gene Expression in Tolerant and Susceptible Corn Lines in response to Goss's Wilt. M. SAYARI, M. ELSHETEHY, S.V. GOOD, A. SOLIMAN, A. KHEIRODIN & F. DAAYF

Phyllosphere and rhizosphere bacteria from canola and soybean against Fusarium head blight of wheat and Verticillium stripe of canola. W.K.G.M.C. DAYARATHNE & W.G.D. FERNANDO

Field sensitivity of potato varieties to Potato Mop Top Virus in Manitoba. V. BISHT, X. NIE, AND M. WRIGHT

Multispectral aerial imagery to determine seed germination rate in soybean field. M. Madani, Y. Long, A. Kirk, A. Kirk, P. Westdal, C. Buino

New finding of Cactodera cyst nematodes in agricultural fields of southern Manitoba. M. MADANI, M. TENUTA & P. CASTILLO

The results of the student presentations' awards were as follows: **Mehrdad Mohammadiani** (1st place), **Natalie L. Cale** (2nd place), and **V. Weerasinghe** (3rd place). The business meeting followed at 2:30pm.

Business meeting

Dr. Daayf thanked the members who stayed for the business meeting and approved the minutes of the 2022 meeting (Fernando/Fetch). Members discussed possibilities for next year's annual regional meeting, but no decision was made. Dr. Fernando informed the present members that Plant Canada 2024 will be held in Winnipeg at the Convention Centre on July 6-10. Dr. Daayf presented a financial update for the CPS-MB regional section and thanked Ms. Puneet Rehal and Drs. Sayari and El-Shetehy for helping with this year's local arrangements. The meeting was adjourned at 3:45pm.

Respectfully submitted,
Dr. Fouad Daayf, CPS-MB Regional Representative



Scholarships

**Call for Applications for 2024 Storkan-Hanes-McCaslin
Research Foundation Awards**

The Storkan-Hanes-McCaslin Research Foundation Awards are named in honor of Richard C. Storkan, Gerald L. Hanes, and Robert L. McCaslin. Each had a long history of cooperation with the scientific community, and they were pioneers in developing effective soil fumigation through experimental research.

The foundation was established in 1987 to support graduate student research. To date, \$628,500 has been awarded to 94 promising scientists. 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 2024 APS meeting in Memphis, TN and are presented their awards at a luncheon attended by their research advisors, previous awardees, and members of the Foundation Committee.

The 2023 Research Foundation Award winner was:

Lily Lofton, University of Georgia.

Proposal Title: Pyrrocidine, a molecular off switch for fumonisin biosynthesis: how does it work?

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. Grants are made on a yearly basis and may be renewed upon review by the committee. Since the award is highly competitive, we encourage unsuccessful applicants 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 2024-2025 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, 2024, 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, 2024.



Careers

University of Manitoba, Department of Plant Sciences: Assistant or Associate Professor, Research Chair in Potato Sustainability



Location	Full Time :	Posting End Date
Plant Science	Yes	May/21/2024
Expected Start Date :	Permanent :	
Sep/01/2024	Yes	

https://viproduct.ad.umanitoba.ca/DEFAULT.ASPX?REQ_ID=31828

Job Description :

UNIVERSITY OF MANITOBA RESEARCH CHAIR IN POTATO SUSTAINABILITY

ASSISTANT OR ASSOCIATE OR PROFESSOR (Tenure Track)
DEPARTMENT OF PLANT SCIENCE
FACULTY OF AGRICULTURAL AND FOOD SCIENCES

The University of Manitoba invites applications for a Research Chair in Potato Sustainability, a tenure-track position at the rank of Assistant or Associate or Professor. The Chair's program will be funded with an investment by a consortium of potato industry stakeholders including growers, processors, potato marketers, sector suppliers, and service providers. The Chair position will be conferred for a five-year term. The Chair's distribution of work duties will be research (55%), extension and sector engagement (25%), and teaching (20%). The tenure-track position will continue after the term without it being designated as a Chair. The position is expected to commence September 1, 2024 or as soon as possible thereafter.

The Chair will be a faculty member in the Department of Plant Science, Faculty of Agricultural and Food Sciences (FAFS). FAFS is investing heavily to grow and modernize its horticulture and agronomic research and training capacity. Crop and soil research teams have been renewed by the addition of eleven new tenure-track faculty positions over three years (2020-23) as well as new infrastructure. The potato sector is an important part of Canadian agriculture, representing the fifth largest primary agriculture crop in Canada. Potatoes are Manitoba's fourth most valuable crop. Most potatoes produced in Manitoba are for processing, though fresh and seed potatoes are also grown. Research and innovation are key to enabling this sector to thrive and remain sustainable. In the 2022 Manitoba Potato Science and Technology Strategy, potato sector stakeholders presented a bold vision statement: "Make Manitoba Canada's leader in potato research and innovation". Following extensive consultation, the key priority areas

identified in the Manitoba Strategy were soil productivity, fertility, and health; irrigation and water management; disease and pest management; variety evaluation and management; and storage. One of the primary recommendations in the strategy was to enhance the research and training capacity in potatoes at the University of Manitoba in areas including agronomy, soils, potato quality, and sustainability.

The Manitoba Research Chair in Potato Sustainability will ensure the University remains a recognized leader in agronomic sciences and crop production systems, supporting each of the four pillars identified in the Faculty's 2022-2027 Strategic Research Plan (<https://umanitoba.ca/agricultural-food-sciences/sites/agricultural-food-sciences/files/2023-04/FAFS-Strategic-Research-Plan-2022-2027.pdf>): promoting sustainable, resilient, fair, diverse & healthy, and technologically advanced agri-food systems. FAFS is actively working with Manitoba Agriculture to highlight research efforts by dedicating significant resources to foster knowledge translation and mobilization activities. It is expected that the Chair will play a significant role in knowledge exchange and extension as it applies to sustainable potato production.

Responsibilities :

The UM Research Chair in Potato Sustainability will be a North American leader in cutting-edge potato research, training, and extension to support a thriving and resilient potato industry in Manitoba and beyond. The Chair will be expected to:

- Develop a research program on sustainable potato production systems that integrates the areas of agronomy, soil health, disease and pest management, in both field production and storage management
- Conduct innovative, collaborative, and applied research to address production challenges and sustainability goals identified by the potato sector
- Identify current and potential production issues and investigate alternative management strategies
- Participate in knowledge transfer activities targeted to the potato sector, both provincially and nationally
- Effectively train and prepare diploma, undergraduate and graduate students for the job market with skills applicable to sustainable potato production systems

Qualifications :

The successful candidate will have (i) a Ph.D. in agronomic sciences (i.e., horticulture, plant science, soil science), or related fields; (ii) academic qualifications commensurate with an appointment at the rank of Assistant or Associate or Professor; (iii) a proven track record to demonstrate the potential to lead an externally-funded research program in potato sustainability with a strong knowledge-translation component; (iv) experience in industry consultation and engagement, and (v) an ability to train highly qualified personnel, diploma, undergraduate and graduate students on subject matters related to sustainable potato production. The Chair will be expected to have a demonstrated commitment to Equity, Diversity and Inclusion (EDI) as it applies to high-quality research output, student training, and collegiality. Salary and rank will be commensurate with qualifications and experience.

Additional Information :

The University acknowledges the potential impact that career interruptions and personal circumstances can have on an applicant's record of research achievement. We encourage applicants to explain the impact of any such interruption(s) in their submission. These interruptions will be taken into consideration during the evaluation process.

The Faculty of Agricultural and Food Sciences is strongly committed to engagement with Indigenous communities. The chair program in potato sustainability will build on significant partnerships fostered through FAFS and Indigenous communities in our region. Our Indigenous scholars will provide guidance to the Chair to ensure the inclusion of Indigenous worldviews, knowledge systems, teachings, values, and oral traditions around environmental sustainability and arable land usage within the training, research, and knowledge translation activities of the program.

The University of Manitoba is a driving force of innovation, discovery and advancement. Our momentum is propelled by our campus community - UM faculty, staff and students whose determination and curiosity shape our world for the better. Our teaching, learning and work environment is uniquely strengthened and enriched by Indigenous perspectives. With two main campuses in Winnipeg, satellite campuses throughout Manitoba, and world-wide research, UM's impact is global.

Discover outstanding employee benefits, experience world-class facilities and join a dynamic community that values reconciliation, sustainability, diversity, and inclusion. We are one of Manitoba's Top Employers and one of Canada's Best Diversity Employers. At the University of Manitoba, what inspires you can change everything.

The University of Manitoba is committed to the principles of equity, diversity & inclusion and to promoting opportunities in hiring, promotion and tenure (where applicable) for systemically marginalized groups who have been excluded from full participation at the University and the larger community including Indigenous Peoples, women, racialized persons, persons with disabilities and those who identify as 2SLGBTQIA+ (Two Spirit, lesbian, gay, bisexual, trans, questioning, intersex, asexual and other diverse sexual identities). All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority.

If you require accommodation supports during the recruitment process, please contact UM.Accommodation@umanitoba.ca or 204-474-7195. Please note this contact information is for accommodation reasons only.

Application materials, including letters of reference, will be handled in accordance with the protection of privacy provision of The Freedom of Information and Protection of Privacy Act (Manitoba). Please note that curriculum vitae may be provided to participating members of the search process.

Application Deadline: May 21, 2024

Application materials should include:

- a cover letter outlining the candidate's qualifications and how they fulfill the above-listed qualifications
- a curriculum vitae (may include examples of significant research or extension contributions)
- a maximum two-page statement outlining the innovative research, extension, and stakeholder engagement activities envisioned for the program
- a maximum one-page teaching statement
- a maximum one-page statement on the candidate's strengths and experiences in fostering Equity, Diversity and Inclusion
- names and contact information of three referees (will only be contacted with permission of candidate)

Send to:

Dr. Nazim Cicek

Search Committee Chair, University of Manitoba

Email: agresearch@umanitoba.ca



PEI Department of Agriculture: Research Scientist



Public Service
Commission

**Open to the Public
Research Scientist
Department of Agriculture
Location – Charlottetown
Full-Time Classified Position
(Commencing Immediately)**

The Department of Agriculture is committed to Equity, Diversity, Inclusion and Accessibility. Our goal is to build a public sector workforce that reflects the diverse communities we serve and to promote welcoming, diverse, inclusive, respectful workplaces that are accessible to all.

We welcome all interested individuals including Indigenous People, persons with disabilities, Black, racialized, ethnic and culturally diverse groups, as well as people regardless of their sexual orientation, gender identities, and gender expressions. Those looking for more information are invited to visit our Equity, Diversity, and Inclusion Policy.

This position is responsible for providing professional and technical support and advisory services to agricultural industries in PEI. This position involves providing scientific research insights into plant disease issues in PEI for the Department of Agriculture, including identifying upcoming research needs and developing plans to address them. This position will facilitate extension initiatives and foster strong partnerships and broad collaborations with academic institutions such as UPEI, Dalhousie University, the federal government, crop industries, and other stakeholders.

Duties to include:

- Maintaining the strong research relationship and collaboration regionally with Atlantic crop councils, provincial extension personnel, academic research groups, and university professors, nationally with plant pathology research network and agriculture researchers in other provinces of Canada;
- Initiating the research program and designing the research projects to develop effective, economical, innovative, and sustainable strategies to support, adapt and adjust to challenges;
- Developing research proposals for each project including research objectives, research methodology, expected outcomes, funding budgets, human resources, and research timeline;
- Developing contracts for research collaborations and/or sub-contracting with universities or research institutions;
- Responsible for the establishment of a database of major crop pest species in PEI which includes: 1) information on major diseases commonly distributed in PEI; 2) supporting the incorporation of the database into a PEI integrated pest management System;
- Daily supervision of research assistants; provide training, coordinate research assistants daily schedule and workload, evaluate the research plans developed by graduate students and providing constructive feedback, , act as a consultant regarding the direction and progress of the graduate student's research by meeting weekly;
- Serve as research resource to DA staff to discuss research questions, provide advice and suggest solutions to complex issues;
- Liaising with crop producers and extension specialists to identify plant related key concerns facing PEI agricultural industries and producers;
- Keeping abreast of the latest science on agricultural challenges to deliver concrete practices and policy recommendations to help farmers lead the way on adaptation solutions;
- Liaising with crop producers and extension specialists to identify plant related key concerns facing PEI agricultural industries and producers;
- Develop briefing notes and scientific advice document and presentations to senior managers;
- Other duties as required.

Minimum Qualifications:

- Must have a master's or PhD degree in Agricultural Science, Plant Pathology, Biology, or a related field from a recognized university;
- Demonstrated equivalencies will be considered;
- Demonstrated expertise and practical experience in plant disease management, integrated pest management, and relevant areas;
- Strong capability to cultivate and maintain effective working relationships, fostering collaboration and partnerships with key stakeholders;
- Proficient in developing innovative agricultural research projects;
- Extensive experience in design and conduct of scientific research projects on maintaining sustainable agriculture systems, plant pest control, and other related agricultural fields;
- Strong ability to direct research projects and evaluate both the scientific and budgetary outcomes of the research projects;
- Must be able to conduct field scale research;
- Must be eligible and willing to seek university or Federal research institution affiliation;
- Must have the ability to work independently and collaboratively with team members;
- Must be creative and motivated and have good oral, written and presentation skills;

- Must have effective supervisory skills;
- Must be eligible for membership in the PEI Institute of Agrologists;
- Must have a valid driver's license and access to a vehicle.

Other Qualifications:

- Knowledge of epidemiology, mycology, and virology would be considered as an asset.
- This competition may be used to fill future job vacancies.

Preference will be given to Employees of the unclassified division as per the UPSE Civil Collective Agreement.

Please Note: Please ensure the application clearly demonstrates how you meet the noted qualifications as applicants will be screened based on the information provided. The successful candidate will be the only individual receiving written notification of competition results. The "Notification of Successful Candidates" list posted on the Employment Opportunity board will serve to inform all other applicants of competition results.

Salary Range: \$37.33 - \$46.69 (Level 19 UPSE) (\$72,794 - \$91,046 annually)

Bi-Weekly Hours: 75.0 hours bi-weekly

PostingID: 161849-0324API

Closing Date: Tuesday, April 16, 2024 5:00 p.m.

Where possible, submitting an electronic resume or job application is preferred. Otherwise, please return forms to PEI Public Service Commission, P.O. Box 2000, Charlottetown, Prince Edward Island, C1A 7N8. Applications may be sent by fax to (902) 368-4383. **IT IS THE RESPONSIBILITY OF THE APPLICANT TO CONFIRM RECEIPT OF THE APPLICATION, BY TELEPHONE OR IN PERSON PRIOR TO THE CLOSING DATE.** Please ensure that the appropriate Posting ID number is stated on all application forms. You can apply online or obtain an application form by visiting our web site at www.jobspei.ca. Forms may also be obtained by contacting any PEI Government office, ACCESS PEI Centre, Regional Services Centre, or by telephone (902) 368-4080.



Young Scientists' Corner

Zyré Aubrey-Hebert

University of Alberta



Zyré at work in the lab

I graduated from the University of Alberta in 2021 with a Bachelor's of Science specializing in sustainable agriculture. I had the privilege of working in Dr. Stephen Strelkov's and Dr. Sheau-Fang Hwang's labs from 2017 – 2021 as a research assistant. My main focus was to pathotype clubroot of canola, as well as work with root rot diseases such as *Pythium*, *Rhizoctonia* and *Fusarium*. I was able to gain a lot of field and green house experience by taking part and leading many experiments. I also mentored many other students throughout this time.

It was during this time that I came to really appreciate the impact that plant pathogens have on our food systems. I found it fascinating that micro-organisms could potentially destroy crops, leading to reduced farm income and global food shortages. This inspired me to further my studies in plant pathogen interactions.

I started out as a Master's student under the supervision of Dr. Stephen Strelkov and Dr. Sheau-Fang Hwang from the University of Alberta, and Dr. Reem Aboukhadour from Agriculture and Agri-Food Canada, Lethbridge AB. In the 2023 Fall term I transferred to the PhD program. The focus of my project is on a plant pathogen called *Pyrenophora tritici-repentis* (Ptr), commonly known as tan spot of wheat. I am working on characterizing isolates from Tunisia, adding to the host differential set and looking at the population dynamics in Western Canada. Ptr is a pathogen of interest because of its ability to reduce crop yields up to 50%. Recently it has been shown that there is likely more races of Ptr than originally thought, and there has been an increase of infection rates on wheat genotypes that were thought to have resistance genes. It will be important to understand if these 'atypical' isolates are new races or unknown necrotrophic effectors, and which cultivars have susceptible genes.



Publications

ISPP - International Newsletter on Plant Pathology



The International Society for Plant Pathology promotes the world-wide development of plant pathology and the dissemination of knowledge about plant diseases and plant health management. News and announcements from all on any aspect of Plant Pathology are invited for the Newsletter.

Editor: Daniel Huberli

e-mail: ispp.nl.editor@isppweb.org

Members of Associated Societies of ISPP can receive e-mail notification of Newsletter updates by joining the ISPP mail list.

<http://www.isppweb.org/newsletter.asp>

ISPP Newsletter 54 (1) January 2024

- ISPP President's greetings for 2024
- Ancient Australian Wollemi Pine growing in Ukraine
- Revolutionising plant disease diagnosis: Novel lightweight deep learning models unveiled for multi-crop protection
- The hustle is on: Me and Bill Gates
- Endophytic bacterial communities in ungerminated and germinated seeds of commercial vegetables
- Special Phytopathology focus issue: Plant virus Epidemiology

- A fungal plant pathogen discovered in the Devonian Rhynie Chert
- Double-stranded RNA prevents and cures infection by rust fungi bacteria use light cues to anticipate, prepare for coming stress
- Researchers predict climate change-driven reduction in beneficial plant microbes
- Current Vacancies
- Acknowledgements
- Coming Events

ISPP Newsletter 54 (2) February 2024

- Scientists engineer plant microbiome for the first time to protect crops against disease
- Mannon Gallegly, West Virginia University professor emeritus unveils final tomato variety
- Obituary of James Lorbeer, 1931-2023
- Obituary of Emeritus Prof. Allen Kerr, 1926-2023
- Obituary of Deborah Golino, 1953-2023 Positive and negative aspects of bacteriophages and their immense role in the food chain
- Diversity and pathogenic characteristics of the *Fusarium* species isolated from minor legumes in Korea
- Disease prediction based on transfer learning using ConvNets

- USDA Announces the National Climate Change Roadmap
- Domesticating plants impacts their microbiome
- The soil-plant connection: A comprehensive guide to soil health and plant vitality
- Current Vacancies
- Acknowledgements
- Coming Events
- Case studies of the use of agricultural biotechnologies to meet the needs of smallholders in developing countries
- Current Vacancies
- Acknowledgements
- Coming Events

ISPP Newsletter 54 (3) March 2024

- Nineteenth Update on ISPP Resilience Bursary for Plant Pathologists
- Plant Protection in a Minute: Video Contest Goes International
- In Memorium of D. Winston Clive James, 1940-2022
- New members of the ISPP committee on the taxonomy of plant pathogenic bacteria
- Asian Conference on Plant Pathology (ACPP 2024) – Website now live
- Rise and thrive with science – Teaching PK-5 science and engineering
- Quantitative pathogenicity and host adaptation in a fungal plant pathogen revealed by whole-genome sequencing
- Indigenous populations of a biological control agent in agricultural field soils
- Virtual meeting: The Genus *Phytophthora* – Don't Change a Winning Concept?
- ICPP2023 podcasts on Plantopia
- Australasian Plant Pathology Society (APPS) Conference in Adelaide, November 2023
- Breakthrough to boost disease resistance in crops
- Ladybug scents offer a ecologically friendly way to protect crops
- Corn genome can gang up on multiple pathogens at once
- The coffee leaf rust pandemic: an ever-present danger to coffee production
- Uncovering the antifungal activities of wild apple-associated bacteria against two canker-causing fungi
- Talking tomatoes: How their communication is influenced by enemies and friends
- Put out your runners: Plant pathology Professor delivers Florida University commencement addresses
- Current Vacancies
- Acknowledgements
- Coming Events



Entomological Society of Canada



The *Bulletin* has been published quarterly by the Entomological Society of Canada since 1969. It provides information on the activities of the Society and its members, research and employment opportunities, matters of wider scientific importance and book reviews.

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Volume 56(1), March / mars 2024

Up front / Avant-propos	1
JAM 2024 / la RAC 2024	4
STEP Corner / Le coin de la relève	5
People in the news / Gens qui font les manchettes.	7
News from the Regions / Nouvelles des régions	8
Gold Medal Address / Allocution du médaillé d'or 2023 (Maya Evenden)	9
Heritage Lecture / Allocution du patrimoine 2023 (Julie Soroka)	19
Special Features / Articles Spéciaux	
Special Topics compendium: A Role for Entomology in Education	
Mentoring from the bronze age to the Anthropocene, by Emma Despland	26
Entomology outreach in Saskatchewan: Bringing insects to the community, by Meghan Vankosky, Chrystal Olivier, Iain Phillips, Graham Parsons, and Tyler Wist	28
Development of a Massive Open Online Course for teaching and outreach of general Entomology Maya L. Evenden and Ilan Domnich	32
Volunteering as part of the Entomology student experience: valuable training or moral dilemma (or both)? by Donna Giberson	41
Entomology Labs! by Bob Lalonde	43
Tips for teaching low- and no-take Entomology by R.E. Batallas, V.A. Shegelski, and H.C. Proctor	46
Teachable moments: How we convince guests of the Monteverde Butterfly Garden to love bugs by Bryna Belisle	50
In memory / En souvenir de	
Claude Guertin (Charles Vincent, Yves Mauffette, Luc-Alain Giraldeau, Robert Lavallée, Louise Savard, Éric Déziel, David Chatenet, Philippe Constant, Narin Srei, Richard Villemur)	53

Lisa Poirier (Gail Anderson and Staffan Lindgren)	56
Books available for review / Livres disponibles pour critique	58
Society business / Affaires de la Société	
Highlights of recent Board of Directors Meetings	59
Executive Meeting–Call for Agenda Items / Réunion du conseil exécutif– Points à l’ordre du jour	60
Call for nominations: Societal Director, Director at Large / Appel à candidatures : de direction sociétale, de conseillerou conseillère	60
74th Annual Meeting of Members and Board of Directors Meetings / 74e Assemblée annuelle des membres et réunions du Conseil d’administration	60
Members’ discounts / Remise pour les membres	60
ESC Co-Secretary / Cosecrétaire	61
ESC Assistant Bulletin Editor / Rédacteur/Rédactrice adj	63
The Canadian Entomologist, issue 155: Year in review	64
Twentieth Annual Photo Contest / Vingtème concours annuel de photographies	65
Announcements / Annonces	
Interested in print copies of ESC publications?	66
Donate to the Entomological Society of Canada Scholarship Fund!	67
Insect specimens available from Cape Bathurst Peninsula, Northwest Territories	68
Advertising in the Bulletin / Publicité dans le Bulletin	68
List of Contents: Regional Journals / Table des matières : Revues des sociétés régionales	69
Contents of newsletters / Contenu des bulletins	
Canadian Weed Science Society / Société canadienne de malherbologie	71
Canadian Phytopathological Society / Societe Canadienne De Phytopathologie	72
Newsletter of the Biological Survey of Canada / Commission biologique du Canada	73
Meeting announcements / Réunions futures	74
Officers of affiliated societies / Dirigeants des sociétés associées	76
The last word / Le dernier mot	77
Governing board / Conseil d’administration	inside back cover



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Submission Deadline for the June 2024 Issue of CPS-SCP News

PLEASE NOTE: The submission deadline for the June 2024 issue of CPS-SCP News is **May 31, 2024**. If you send photographs for publication in the CPS-SCP News, please ensure that you indicate that all individuals appearing in the photographs have given permission for their photographs to appear in the newsletter. Photographs will not be published if permission has not been obtained from the individuals involved. In addition, photographs must be accompanied by a caption, and must be of suitable quality for printing. Photos that do not meet these guidelines will not be printed. When possible, please send photos as separate attachments, rather than embedding them in Word or PDF files.

