

CPS • SCP *News*



CANADIAN PHYTOPATHOLOGICAL SOCIETY • SOCIÉTÉ CANADIENNE DE PHYTOPATHOLOGIE

VOL. 65, NO. 3

<http://phytopath.ca>

September 2021

President's Message



Lone Buchwaldt
CPS-SCP President/présidente

In 2018 I entered the Presidential stream at the annual meeting of members (AMOM) held in Quebec City. However, COVID-19 forced the CPS to cancel the AMOM in 2020 which prevented voting on new nominees. Consequently, the Board of Directors (BOD) decided to extend all Board and Committee members one year. I therefore became President at the virtual AMOM in June 2021. The Bylaw has now been amended to allow virtual AMOM and electronic voting when needed.

After four years on the current Board, and four years as CPS Secretary, from 1997 to

Inside this issue:

President's Message	76
Message de la présidente	79
Society Business	
CPS Education Committee - Call for Student Member	81
Meetings	
2021 CPS Eastern Ontario Regional Meeting	82
Awards	
CPS Awards Committee	83
Announcements	
2022 Canadian Plant Disease Survey - Call for Reports	86
CPS Education Committee's Student Seminar Series	89
Post-TriSociety Conference Virtual Workshops	90
Young Scientists' Corner	90
Publications	
ISPP	91
Entomological Society of Canada	93
Contact the Editors	95

2001, I am quite familiar with functions of the society, and expect to make a useful contribution. Thank you to **Past President Dilantha Fernando**, and **Senior Director Philippe Tanguay**, who left the Board, for a job well done, and welcome to **Vice President Gary Peng**, **Junior Director Wen Chen** and all new committee members. Your willingness to donate time and energy is vital to our society. Guidelines for the different Board positions and Committees can be found in the Bylaws and terms of reference on CPS' website. The BOD now consist of 40% women, and this positive trend will hopefully continue. I would like to congratulate four individuals who received major

awards from the CPS at this year's AMOM: **Fouad Daayf** and **Mary Ruth McDonald** for

Outstanding Research, **André Lévesque** for Career Recognition, and **Hervé der Heyden** for Achievements Disease Management.

The following is a brief description of my plant pathology career so far. I graduated with a Ph.D. in plant pathology and biochemistry from the Royal Veterinary and Agricultural University in Copenhagen, Denmark - the country where I was born and raised. Concurrent with my studies, I was a plant pathologist with the Danish Government, specializing in fungal diseases of canola which were becoming an increasing problem. I developed a fungicide decision support system for stem rot (*Sclerotinia sclerotiorum*) in canola that was used by the national extension service for

several years. In 1989 I met my future Canadian husband, Roger Rimmer, at a 'Sclerotinia Workshop' in Atlantic City, NJ. We married the same year and decided to spend our honeymoon in Berlin when the famous wall was toppled. The following year, I immigrated to Canada and continued research at the University of Manitoba and later at Agriculture and Agri-Food Canada in Saskatoon. In Canada, I continued to work on fungicide decision support systems in both canola and lentil. Upon becoming a Canadian citizen in 2001, I secured a permanent position as a plant pathologist with Plant Gene Resources of Canada. Initially, my research areas included

identification of *Brassica napus* germplasm with resistance to *S. sclerotiorum*, and lentil germplasm with resistance to

Colletotrichum lentis. Later, I characterized the two pathogen populations for genomic diversity and pathogenicity. Roger and I were Editors of the 'Compendium of Brassica Diseases' published by the American Phytopathological Society, and also collaborated on mapping of sclerotinia resistance in a Chinese *B. napus* variety. I continued this research utilizing *B. napus* material from Asia, and adopted new genotyping methods as they became available. Currently, I am mapping sclerotinia resistance QTLs in soybean. Candidate resistance genes against sclerotinia are being identified at these QTLs, in gene expression studies, and by cloning and transformation of selected genes. My research is funded by Federal and Provincial Governments, grower groups

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as well as industry. I am very grateful to work with excellent technicians, Post Docs and other scientists, and as long as scientific progress is being made, I have no plans for retirement.

As you may know, this year's Annual Meeting was converted to a Tri-Society Virtual Conference which took place in July. **Guillaume Bilodeau** (the original LAC Chair) and I (as President-Elect) represented the CPS on the organizing committee along with **Andrew Burt** from the Canadian Society of Agronomy, and **Valerie Gravel** from the Canadian Society for Horticultural Science. I would like to thank the following key people within CPS for their valuable contributions to the conference's success; **Vikram Bisht** (advertisement), **Syama Chatterton** (awards), **Wen Chen** (workshops), Ken Conn (treasure), **Dilantha Fernando** (program committee chair), **Tom Fetch** (sponsorships), **Michael Holtz** (web site) and **Sara Stricker** (student socials and contests). The conference was well attended with 340 registrants, which included 94 non-members and was likely due to effective advertisement on social media. CPS greatly appreciate the sponsorships from several grower organizations and companies, which made it possible to earmark more than \$9000 for student presentation awards and scholarships. The program book with all abstracts is available on the CPS website under past 'CPS annual meetings' (<https://phytopath.ca/wp-content/uploads/2021/09/TriSociety-Flipbook.pdf>). Many of you attended the virtual conference, and hopefully you found

interesting presentations and posters both within and outside of our area of expertise.

Several CPS members have volunteered to organize virtual workshops, two of which were held immediately after the Tri-Society conference, and more workshops will be advertised between September and February. The BOD supports virtual workshops as a permanent feature, and hope to amend the Bylaw at the next AMOM. Let's hope the circumstances surrounding COVID-19 allow us to meet in-person at the 2022 Annual Meeting in Penticton, B.C. from June 4 to 8 which is held jointly with the APS Pacific Division. The LAC Chair is **José Ramón Úrbez Torres**, at AAFC in Summerland. In the meantime I would appreciate if CPS Regional Representatives could let me know about their annual meetings, and I will make an effort to attend either virtually or in-person if possible.

Looking into the future, I am excited to let you know that the CPS Board has submitted a bid to the International Society of Plant Pathology to host the International Congress of Plant Pathology in Winnipeg 2028. The bid document was spearheaded by **Tom Fetch** (AAFC Morden), **Dilantha Fernando** (University of Manitoba) and **Barry Saville** (Trent University). I know Canadian plant pathologists and companies involved with plant production will rise up to this challenge should the CPS be selected. For now, best wishes to everyone for a productive year ahead, and a safe return to work places and life in general.



Message de la présidente

En 2018, à l'occasion de l'assemblée annuelle des membres (AAM) tenue à Québec, je me suis engagée dans le processus de la présidence. Toutefois, la COVID-19 a forcé la SCP à annuler l'AAM en 2020, ce qui nous a empêchés d'élire de nouveaux candidats. En conséquence, le conseil d'administration (CA) a décidé de prolonger d'une année le mandat de tous les membres du conseil et des comités. Je suis donc devenue présidente lors de l'AAM virtuelle de juin 2021. Le règlement a maintenant été amendé pour permettre la tenue virtuelle de l'AAM et le vote électronique, lorsque requis.

Après quatre années à siéger au conseil actuel et quatre années en tant que secrétaire de la SCP, de 1997 à 2001, les fonctions de la Société me sont passablement familières et j'espère y contribuer utilement. Je tiens à remercier, pour leur travail bien fait, **le président sortant, Dilantha Fernando**, et **le directeur principal, Philippe Tanguay**, qui ont quitté le conseil, et à souhaiter la bienvenue au **vice-président Gary Peng**, à **la directrice adjointe, Wen Chen**, ainsi qu'à tous les nouveaux membres des comités. Votre empressement à consacrer temps et énergie à notre Société lui est vital. Les lignes directrices relatives aux différents postes occupés par les membres du conseil et des comités peuvent être consultées dans les règlements et les termes des mandats sur le site Web de la Société. Le CA est actuellement composé à 40 % de femmes et j'espère que cette tendance positive se poursuivra. J'aimerais féliciter quatre personnes qui ont reçu de prestigieux prix de la SCP à l'AAM cette année : **Fouad Daayf** et **Mary Ruth McDonald** pour Recherches

exceptionnelles, **André Lévesque** pour Reconnaissance professionnelle et **Hervé der Heyden** pour Réalisations en gestion des maladies.

Ce qui suit est une brève description, à ce jour, de ma carrière à titre de phytopathologiste. J'ai obtenu un doctorat en phytopathologie et biochimie de l'Université royale de médecine vétérinaire et d'agriculture de Copenhague, au Danemark, pays où je suis née et où j'ai grandi. Concurrément à mes études, j'ai travaillé pour le gouvernement danois en tant que phytopathologiste, me spécialisant dans les maladies fongiques du canola qui devenaient de plus en plus problématiques. J'ai développé un système d'aide à la décision relatif aux fongicides pour traiter la pourriture à sclérotés (*Sclerotinia sclerotiorum*) chez le canola, qui a été utilisé pendant plusieurs années par le Service national de vulgarisation. En 1989, j'ai rencontré mon futur mari, Roger Rimmer, un Canadien, à un atelier sur la pourriture à sclérotés à Atlantic City, au New Jersey. Nous nous sommes mariés la même année et avons décidé de passer notre lune de miel à Berlin au moment où le fameux mur est tombé. L'année suivante, j'ai immigré au Canada et j'ai poursuivi mes recherches à l'Université du Manitoba et, par la suite, à Agriculture et Agroalimentaire Canada (AAC) à Saskatoon. Au Canada, j'ai continué à travailler sur les systèmes d'aide à la décision relatifs aux fongicides pour traiter le canola et les lentilles. En 2001, lorsque je suis devenue citoyenne canadienne, j'ai obtenu un emploi permanent chez Ressources phytogénétiques du Canada. Initialement, mes domaines de recherche incluaient l'identification des germoplasmes de

Brassica napus résistants à *S. sclerotiorum* et les germoplasmes de lentilles résistants à *Colletotrichum lentis*. Par la suite, j'ai caractérisé les deux populations d'agents pathogènes en fonction de leur diversité génomique et de leur pathogénicité. Roger et moi avons été éditeurs du Compendium of Brassica Diseases publié par la Société américaine de phytopathologie (SAP). Nous avons également collaboré à la cartographie de la résistance à la pourriture à sclérotose chez une variété chinoise de *B. napus*. J'ai poursuivi cette recherche en utilisant du matériel de *B. napus* provenant d'Asie et j'ai adopté les nouvelles méthodes de génotypage à mesure qu'elles devenaient accessibles.

Actuellement, je cartographie les QTL de résistance à la pourriture à sclérotose chez le soya. Dans le cadre d'études sur l'expression génique ainsi qu'en clonant et en transformant des gènes sélectionnés, les gènes candidats pour la résistance à la pourriture à sclérotose sont identifiés à ces QTL. Ma recherche est financée par les gouvernements fédéral et provinciaux ainsi que par des groupes de producteurs et l'industrie. Je suis reconnaissante de pouvoir travailler avec des techniciens chevronnés, des postdoctorants et d'autres scientifiques et, tant que des progrès scientifiques seront accomplis, je ne considère pas de prendre ma retraite.

Comme vous le savez probablement, la réunion annuelle de cette année, qui s'est tenue en juillet, a été convertie en une conférence virtuelle réunissant trois sociétés. **Guillaume Bilodeau** (le président initial du comité organisateur) et moi (en tant que présidente élue) avons représenté la

SCP au comité organisateur avec **Andrew Burton** de la Société canadienne d'agronomie et **Valérie Gravel** de la Société canadienne de science horticole. J'aimerais remercier les personnes clés suivantes de la SCP pour leurs inestimables contributions à la réussite de la conférence : **Vikram Bisht** (publicité), **Syama Chatterton** (prix), **Wen Chen** (ateliers), **Ken Conn** (trésorier), **Dilantha Fernando** (président du comité des programmes), **Tom Fetch** (commanditaires), **Michael Holtz** (site Web) et **Sara Stricker** (activités sociales pour les étudiants et concours). La conférence a accueilli 340 personnes inscrites, dont 94

non-membres, ce qui de toute évidence résulte de la publicité efficace diffusée sur les médias sociaux. La SCP apprécie

**“... le CA a présenté sa candidature à la
Société internationale de phytopathologie
pour tenir le Congrès de pathologie végétale
à Winnipeg en 2028.”**

grandement le parrainage de nombreuses organisations de producteurs et de compagnies qui a permis de récolter plus de 9 000 \$ pour les présentations des étudiants et les bourses. Le programme de la réunion comportant tous les résumés est disponible sur le site Web de la Société sous « Réunions annuelles précédentes de la SCP » (<https://phytopath.ca/wp-content/uploads/2021/09/TriSociety-Flipbook.pdf>). Plusieurs de vous avez assisté à la conférence virtuelle et, je l'espère, avez trouvé intéressantes les présentations et les affiches tant de notre domaine d'expertise que de celui des autres sociétés.

Quelques membres de la SCP se sont portés volontaires pour organiser les ateliers virtuels, deux desquels ont été tenus immédiatement après la conférence des trois sociétés, et d'autres conférences seront annoncées de septembre à février. Le CA soutient les conférences virtuelles en

tant qu'élément permanent et espère amender le règlement à la prochaine AAM. Souhaitons que les circonstances entourant la COVID-19 nous permettent de nous rassembler en personne à la réunion annuelle de Penticton, en Colombie-Britannique, du 4 au 8 juin, qui se tiendra conjointement avec la division du Pacifique de la SAP. Le directeur du comité organisateur est **José Ramon Úrbez Torres** d'AAC à Summerland. D'ici là, j'aimerais que les représentants régionaux de la SCP me tiennent au courant de leurs réunions annuelles et je m'efforcerai d'y assister virtuellement ou en personne, si je le peux.

À plus long terme, je suis enthousiaste de vous annoncer que le CA a présenté sa candidature à la Société internationale de phytopathologie pour tenir le Congrès de pathologie végétale à Winnipeg en 2028. Le dossier de candidature a été piloté par **Tom Fetch** (AAC à Morden), **Dilantha Fernando** (Université du Manitoba) et **Barry Saville** (Université Trent). Je suis convaincue que, si la SCP est choisie, des compagnies et des phytopathologistes canadiens engagés dans la production végétale relèveront le défi. Pour le moment, je souhaite à toutes et à tous une saison des plus productives et un retour en toute sécurité à vos lieux de travail ainsi qu'à la vie en général.



Society Business

CPS Education Committee - Call for Student Member

The CPS Education Committee is in search of a student member! The Terms of Reference of the CPS Education committee are:

- 1 To promote awareness of the importance of plant health and plant diseases to all members of Canadian society.
- 2 To develop educational resources to illustrate the importance of plant diseases and their management for use in public school, university, and other educational applications.
- 3 To facilitate the incorporation of educational resources in the curriculum of public school, university and other educational applications.
- 4 To provide a forum for career development and public discussion of plant health and plant disease-related topics.

If this sounds interesting to you, or if you would like more information, please email the Chair of the CPS Education Committee, Linda Jewell at Linda.Jewell@agr.gc.ca.



Meetings

Report on the 2021 CPS Eastern Ontario Regional Meeting

This year, the CPS Eastern Ontario Regional Meeting took place as a symposium in the Joint CanFunNet and Great Lakes Mycology 2021 Virtual Conference (CFNGLM 21) on May 26 – 28. The CPS-EOR symposium was composed of two keynote speeches, 14 standard talks (15 mins) and 3 flash talks (5 mins) arranged in five sessions (moderated by Drs Wen Chen and Miao Liu). Under the theme of “Plant Pathogens – Omics, Systematics, and Disease Control,” the presentations covered a wide range of topics related to plant pathogens, including genomics, proteomics, host-parasite interaction, taxonomy, population biology, host specificity, mycotoxins, incidence of novel and/or re-emerging fungal pathogens, natural products and new technologies for disease control. Two keynote speeches were presented by Drs. Linda Harris (Ottawa Research Development Centre, AAFC) and Tyler Avis (Carleton University) entitled “Gramillins: Host-specific phytotoxins produced by cereal pathogen *Fusarium graminearum*” and “Biochemical insights into the antimicrobial properties of membrane-targeting compounds produced by antagonistic microorganisms on fungal plant pathogens.” Dr. Barry Saville, the President of CPS delivered an introduction to the Canadian Phytopathological Society and upcoming CPS-CSA-CSHS Tri-Society conference. The sessions were well attended by over 260 cumulative audience members. Benefitting from the interaction with two other scientific communities and from the virtual platform, the presenters were from several countries, including Australia, Brazil, Canada, Germany and USA. Sara Stricker (University of Guelph) won a student presentation competition for her flash talk: “Understanding *Stemphylium vesicarium* in Ontario.” The Canadian Phytopathological Society was honoured as a Platinum sponsor by CFNGLM 21.

Submitted by Miao Liu, CPS Eastern Ontario Regional representative



The Joint CanFunNet and Great Lakes Mycology Conference
May 26-28, 2021

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Canadian Phytopathological Society Eastern Ontario Region (CPS-EOR):
Plant pathogens - Omics, systematics and disease control

Awards

Report of the CPS Awards Committee

The 2020 and 2021 CPS awards were presented at the Canadian Phytopathological Society virtual Annual General Meeting held on June 11, 2021 via Zoom. The 2020 awardees were also announced previously in the Sept/Dec 2020 CPS newsletter. The 2021 awardees are as follows, and details for each of these awardees are provided below. **Dr. André Lévesque** received the inaugural Career Recognition award. **Dr. Mary Ruth McDonald** and **Dr. Fouad Daayf** each received an Outstanding Research award, and **M. Hervé Van der Heyden** received the Achievements in Disease Management award. There were three CPS student scholarship awards presented to **Heather Tso, Emilee Storfie, and Portiaa McGonigal**.

At the Tri-Societies 2021 virtual conference, there were 35 oral presentations and 18 poster presentations provided by CPS students. Students were judged by three judges each, with 8 judges in total working on a rotating schedule to accommodate the large number of presentations and the virtual format. For this reason, awards were provided to the oral and poster presentations that ranked in the top 8 and 4, respectively, but presentations were not categorized into 1st, 2nd, 3rd place. The following students provided the top ranked oral and poster awards:

Oral Presentations:

Portiaa McGonigal	Compost amendments affect plant performance and crop quality without affecting disease severity in a long-established crown gall-diseased vineyard
Edward McNab	Creeping bentgrass microbiome: traditional culturing and sequencing results compared to metagenomic techniques.
Emilee Storfie	Fungal pathogen emergence: an <i>Ustilago maydis</i> x <i>Sporisorium reilianum</i> model
Erika Dort	Improving biosurveillance in the genomics era: using large-scale genome comparisons with machine learning to predict fungal phytopathogenic lifestyles
Harini Aiyer	Cover crops differentially affect root disease susceptibility by changing the soil microbiome
Keisha Hollman	The virulence of <i>Plasmodiophora brassicae</i> on canola with '2nd generation' clubroot resistance
Claudia Escobar-Gil	Transcriptomic profiling of the host pathogen interaction in tan spot of wheat
Sara M. Stricker	Fungicide sensitivity of <i>Stemphylium vesicarium</i> in Ontario

Poster Presentations

Fang (Amy) Shi	The effect of plant age on the susceptibility of American ginseng (<i>Panax quinquefolius</i> L.) to replant disease
Portia McGonigal	Screening for potential biological control agents against <i>Allorhizobium vitis</i> , the causal agent of crown gall disease of grapevine
Someshwar Latchman	Characterization and developing effective screening methods of bacterial blight of highbush blueberry in the Lower Mainland of British Columbia
Romarie Armel Mouafo-Tchinda	Competition between <i>Plasmopara viticola</i> clade <i>aestivalis</i> and clade <i>riparia</i> : who can win the aggressiveness battle

Respectfully submitted,
Syama Chatterton, 2021 CPS Awards Chair

Achievements in Disease Management – M. Hervé Van der Heyden

M. Hervé Van der Heyden started as a research professional in phytopathology for the Cide Recherche Phytodata Inc. in 2007. Hervé has developed and delivered best management/control strategies to mitigate diseases of vegetable and berry crops and facilitated adoption of molecular-based technologies in Quebec. Some of his major solutions to disease problems are: establishment of warning and action weather-, inoculum-, and phenology-based thresholds; development of DNA-based pathogen population quantification tools; development of sampling plans; and development of disease management decision strategies at the field, farm, and regional levels. These solutions have been adopted by producers. He established a scouting network using spore monitoring and PCR-based identification since 2008 which has enabled targeted application of fungicides leading to documented cost savings, reduced fungicide usage, and good and stable disease control of vegetable crops. When growers became familiar with molecular tools, M. Van der Heyden developed new tools to perform fungicide resistance monitoring and a sampling plan in order to help growers choose the most appropriate fungicides. These are only a few of many examples where M. Van der Heyden has achieved ground-breaking research and development that covers the range from basic plant pathology, aerobiology, epidemiology to applications in the field that are routinely used by growers. In recognition of his substantial contributions to agriculture and to the agricultural community in Quebec, M. Van der Heyden is the recipient of the 2021 Achievements in Disease Management award.

Outstanding Research – Dr. Mary Ruth McDonald

Dr. Mary Ruth McDonald is a full professor in the Dept. of Plant Agriculture at the University of Guelph, Ontario. Dr. McDonald is widely recognized as an expert on diseases of onion and carrot, IPM on many vegetable crops, and on clubroot of brassica crops. She has conducted innovative research on diseases of onion that has resulted in practices adopted by growers and Feature articles in Plant Disease. She has made novel contributions on the interaction of disease and plant nutrition on carrot crops, epidemiology of carrot diseases and innovative management strategies that have been widely used in commercial carrot

production in eastern Canada. In recent years, Dr. McDonald has been working on the biology of the clubroot pathogen on brassica crops, focusing on understanding of resistant and susceptible reactions, pathotype interactions and community structure. Dr. McDonald has authored over 100 scientific papers in refereed journals, seven book chapters, and nearly 100 papers in refereed conference proceedings. In addition, Dr. McDonald has obtained millions of dollars of research funding over the years, and developed many innovative research ideas and approaches, which have led to valuable improvements in disease management. Dr. McDonald is a leader in her field and is valued, both nationally and internationally, for her research efforts and contributions. Due to her innovative research in plant disease management, prolific publishing of her study results in a wide range of journals, efforts in IPM, leadership in scientific communities (nationally and internationally), and positive impact on the crop sector Dr. Mary Ruth McDonald is awarded Outstanding Researcher in 2021.

Outstanding Research – Dr. Fouad Daayf

Dr. Fouad Daayf is a professor of plant pathology and head of the Department of Plant Science, University of Manitoba. To date, Dr. Daayf has published 126 refereed manuscripts, 13 book chapters, and co-authored 5 books. He has presented 16 invited talks at producer and scientific conferences. Dr. Daayf is a worldwide expert on verticillium wilt disease, and in collaboration with Dr. C. Rampitsch developed the first proteomic map of *Verticillium dahliae*. His studies in this area were instrumental in elucidating some of the molecular bases of host-pathogen interactions in this pathosystem. Dr. Daayf's work was among the first to introduce the idea that *V. dahliae* is using some of the identified genes to counteract potato defenses. Dr. Daayf has also made significant contributions to our understanding of host-pathogen interactions in the potato – *Phytophthora infestans* pathosystem. As a result, Dr. Daayf was invited to contribute to a review about "The Top 10 Oomycete Pathogens in Molecular Plant Pathology", which was published in *Molecular Plant Pathology* in 2015, and has accumulated over 290 citations. Dr. Daayf has also made significant contributions in the use of plant extracts, beneficial bacteria, and other biotreatments in managing plant disease. Through these studies, Dr. Daayf's team demonstrated several mechanisms involving specific signaling (SA, JA) or biosynthetic pathways (phenolics, terpenes) in either host plants or their invaders, or both. Based on his many accomplishments in the field of research in Plant Pathology, Dr. Fouad Daayf is a worthy recipient of the Outstanding Research Award in 2021.

Career Recognition Award – Dr. André Lévesque

Dr. André Lévesque is awarded the inaugural CPS Career Recognition Award. He was a research scientist at Agriculture and Agri-food Canada from 1993 – 2016; special advisor to the Partnership and Planning Directorate of AAFC in 2017, and Senior Science Director for the Canadian Food Inspection Agency from 2017 – 2020. André retired from his position with CFIA in November 2020. Dr. André Lévesque is highly deserving of this award based on the impact his career of more than 25 years has had on research and service to the plant pathology community. There is no doubt that Dr. Lévesque has made significant contributions on the use of genomics and molecular tools in the study of plant pathogens for early detection and biosystematics, and during his distinguished career he had considerable outreach and

involvement with the broader community, including leadership roles and education. Dr. Lévesque's nomination was supported by numerous signatories of highly-regarded plant pathologists from across Canada and are a testament to his wide-ranging impact on the scientific community. Dr. Lévesque's impact on plant pathology research and the community in Canada are too many to summarize in a short brief, but highlights of his career include seminal work on the phylogeny and genomics of *Pythium* species; recommendation of the nuclear Internal Transcribed Spacer (ITS) as a universal DNA barcoding marker for fungi; building capacity for Canada to address risks of accidental or deliberate introduction of plant pathogens; leadership in the International DNA Barcode Initiative; and development of DNA multi-arrays for diagnostics that are still widely in use. He published 125 peer-reviewed scientific papers, 10 book chapters and 200 conference proceeding over his research career. He received over 100 invitations to important scientific events as presenter or keynote speaker, including to many prestigious international events. These achievements clearly indicate that Dr. Lévesque has contributed to plant pathology research in Canada. Dr. Lévesque's contribution to the plant pathology community include providing many guest lectures at Canadian universities, supervision of numerous highly qualified personnel that are now active contributors to plant pathology themselves, and active involvement in many scientific societies and advisory committees. In the words of the group of 30+ plant pathologists that nominated Dr. André Lévesque for this award: "André is an exemplary role model for many of us - his career and all his achievements have influenced and will continue to influence our research for decades to come. As a researcher, Dr. Lévesque is admired; as a mentor he is loved by his mentees; and as a person, he is appreciated by us all."



Announcements

2022 Canadian Plant Disease Survey - Call for Reports

NOTICE TO AUTHORS / AVIS AUX AUTEURS

2022 CANADIAN PLANT DISEASE SURVEY (CPDS) – Volume 102 / INVENTAIRE DES MALADIES DES PLANTES AU CANADA (IMPC) 2022

Reports of the 2021 Crop Season / Rapports de la saison des cultures 2021

The Canadian Plant Disease Survey documents the incidence of plant diseases in Canada. Formal plant disease surveys as well as important anecdotal observations may be submitted. Reports benefit agencies planning or funding research on disease control and may be useful to federal authorities dealing with plant health issues in international trade. The CPDS can be downloaded from the CPS web site (<http://phytopath.ca/publication/cpds/>).

Starting with Volume 99, the CPDS has been published as a special edition of the Canadian Journal of Plant Pathology. **References, citations, and table formatting should match that of the CJPP** (see CPDS Vol. 100 on the CPS website and:

https://www.tandf.co.uk/journals/authors/style/reference/tf_CSE.pdf).

L'Inventaire (IMPC) témoigne de la présence des maladies des plantes au Canada. Des relevés de maladies ainsi que des observations fortuites importantes peuvent être présentés. Ces relevés aident les organismes publics à planifier et à subventionner la recherche sur la lutte contre les maladies et sont aussi de grande utilité à l'autorité fédérale pour traiter des questions de commerce international impliquant l'état sanitaire des cultures. L'IMPC peut être téléchargé du site web de la SCP (<http://phytopath.ca/publication/cpds/>).

À partir de Volume 99, l'IMPC a été publié dans une édition spéciale de la Revue canadienne de phytopathologie. **Références, citations et autres mises en forme doit correspondre à celui de la RCP** (voir l'exemple de l'IMPC Vol. 100 sur le site et: https://www.tandf.co.uk/journals/authors/style/reference/tf_CSE.pdf).

SUBMISSION OF REPORTS / SOUMISSION DES RAPPORTS:

Authors should send a copy of their report(s), including graphs, maps, and tables to the **appropriate Section Editor** by **November 30, 2021**, cc the **National Editor** janice.elmhirst@shaw.ca. **Please note several new Section Editors are listed below.**

The **Section Editor** will review the report for scientific content and editorial format and return the report to the **author** with their comments. **Section Editors** will email final copies of all the papers in their section to the National Editor by January 25, 2022.

Les **auteurs** doivent envoyer une copie de leur(s) rapport(s), y compris les graphiques, les cartes et les tableaux, à l'**éditeur de section approprié** par le **30 novembre 2021**, cc l'**éditrice nationale** Janice.elmhirst@shaw.ca. **Voir la nouvelle liste des éditeurs de section pour savoir à qui envoyer les rapports.**

L'**éditeur de section** procéderont à la révision du contenu scientifique et de la présentation et retourneront le rapport à l'**auteur principal** avec leurs commentaires. Les **éditeurs de section** enverront les copies finales de tous les articles de leur section à l'**éditrice nationale** par voie électronique par le **25 janvier 2022**.

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Launch of the CPS Education Committee's Student Seminar Series

The CPS Education Committee is excited to announce that we will be hosting a regular series of Virtual Student Seminars! We hope that these seminars will allow students and recent graduates to share a larger piece of their research with the CPS community than a typical conference presentation might allow.

Presenters should be students or recent (within the past 6 months) graduates from a Canadian institution. Preference may be given to CPS members. All members of the CPS community are welcome to attend the seminars. Presentations should be 30 minutes in length, with 15 minutes for questions and discussion. Presentations should be focused on the student's own research results as opposed to proposed or future work.

Seminars will be held on a monthly basis on the final Wednesday of each month, with the exception of December.

To sign up for a presentation slot, or if you have any questions, please email the Chair of the CPS Education Committee, Linda Jewell, at Linda.Jewell@agr.gc.ca.

We hope that all CPS members will encourage their students to participate in the seminar series as presenters and/or audience members!

Upcoming seminars:

- October 27th, 2021; 11:00 AM PST / 3:30 PM NST. Sara Stricker: "Improving integrated pest management of *Stemphylium* leaf blight of onion."
- November 24th, 2021; 11:00 AM PST / 3:30 PM NST. Dieter Kahl: "Spatiotemporal detection of Grapevine red blotch virus and a novel approach to virus vector discovery"



2021-22 Post-TriSociety Conference Virtual Workshops

A series of online workshops is being organized by the CPS Workshop Committee.

Virtual workshops will be occurring approximately each month, with the first in September.
<https://phytopath.ca/news/announcements/2021-22-post-trisociety-conference-workshops/>

Details on workshop, speakers and cost and registration are available at this website:

<https://phytopath.ca/meetings/cps-workshop-soil-pathogens-and-disinfestation/>

All members and non-members are invited to these workshops.

Looking forward to seeing you!
The CPS Workshop Committee



Young Scientists' Corner

FEATURED STUDENT:

Jared Hrycan

University of British Columbia Okanagan



Jared with his grapevines

Growing up in the Yukon, I had never seen a grapevine before, let alone thought about working with grapevines, so when I moved to the Okanagan to start my undergraduate degree in Microbiology at the University of British Columbia Okanagan, it was quite the eye opener. During my undergraduate degree I volunteered on a research project focusing on grapevine root anatomy, which piqued my interest in grapevine research. During my summers I worked for the Okanagan-Kootenay Sterile Insect Release Program, working with growers to monitor and control codling moth populations in apple and pear orchards around the Okanagan. Working with growers and helping with research were truly rewarding experiences which helped cement my desire to continue on my career in agricultural research.

With my background in grapevine research and the large economic impact grapevines have on the Okanagan, I naturally fell into grapevine trunk disease research. In 2019 I started my PhD at the University of British Columbia Okanagan in collaboration with Agriculture and Agri-Food Canada, working in the Plant Pathology lab under Dr. Úrbez-Torres. Grapevine trunk diseases are the main biological agent impacting grapevines today and are of significant concern for grape-growers in the Okanagan and around the world. My research focuses on determining whether some of these trunk diseases are latent pathogens, acting as endophytes in the wood until some sort of trigger causes them to transition into a pathogenic phase. I am currently conducting several greenhouse and field experiments to determine the effects of abiotic and biotic stress on young grapevines infected with Petri disease pathogens, one of the diseases within the grapevine trunk disease complex. Symptoms of grapevine trunk diseases can remain overlooked for years, spreading silently throughout vineyards. With no registered products for the treatment of these diseases in Canada, and a desire for more sustainable agricultural practices from grape-growers, understanding the root cause of symptom expression is key to better management practices when it comes to dealing with these diseases.



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@isspweb.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 51 (7) July 2021

- The new logo of the ISPP is here!
- Climate change. FAO launched a new scientific review of its impacts on plant pests for IYPH2020's end
- Irish potato famine pathogen stoked outbreaks on six continents
- Nematode pests of some major cereals in Nigeria
- Pacific Pests, Pathogens and Weeds - Version 10
- Rapid, simple diagnostic method for insect-transmitted plant pathogen and insect identification webinar
- Reservoirs of plant virus disease
- Launch of new short animated film focusing on Sub-Saharan Africa plant health
- Battle of the pleiades against plant immunity
- Current Vacancies
- Acknowledgements
- Coming Events

ISPP Newsletter 51 (8) August 2021

- 3.304
- Obituary of Luis Sequeira, 1927 - 2021
- The seeds that give: Retired plant pathologist donates tomato seeds to developing nations
- The impact of climate change on disease in wild plant populations
- Can we 'vaccinate' plants to boost their immunity?
- Modified yeast inhibits fungal growth in plants
- Let crop residues rot in the field – it's a climate win

- Exploring a Dynamic Soil Information System
- CALL for bids to host the 13th International Congress of Plant Pathology, ICPP2028
- Obituary of Ken Horst, 1936 - 2021
- Current Vacancies
- Acknowledgements
- Coming Events

ISPP Newsletter 51 (9) September 2021

- Notice to ISPP Councillors - Selection of Host Society for ICPP2028
- ISPP's Global Plant Health Assessment: a website is open and an International Workshop+Conference is planned
- Spores, Maria Lodovica Gullino, Springer, 2021, 289 pages
- Protein discovery could help enable eco-friendly fungicides
- One Health concepts and challenges for surveillance, forecasting, and mitigation of plant disease
- Plant pathogen infection risk tracks global crop yields under climate change
- Measuring electric current in soil could provide answers on soil health
- Drought changes root microbiome of rice
- New enzyme identified that infects plants - paving the way for potential disease prevention
- Plant health workshops
- 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.

Volume 53(3), September / septembre 2021

Up front / Avant-propos	114
Joint Annual Meeting 2021 / Reunion annuelle conjointe 2021	118
STEP Corner / Le coin de la relève	120
News from the Regions / Nouvelles des régions	122
People in the News: Matt Muzzatti	124
2021 ESC Award Recipients / Récipiendaires des prix SEC	
Gail S. Anderson: Gold Medal Award / Médaille d'or	125
Sheila Colla: C. Gordon Hewitt Award / Prix C. Gordon Hewitt	128
Peggy Dixon: Fellow / Membre associé	130
Rick Cavasin: Norman Criddle Award / Prix Norman Criddle	132
Scott Gilmore: Bert and John Carr Award / Prix Bert et John Carr	133
Special Features / Articles spéciaux	
Wider aspects of a career in entomology. 15. Scientific Conferences (Hugh V. Danks)	134
Fourth Addendum for Index to Biography of Entomologists in Canadian Publications, 2016-2020 / Quatrième Addenda à l'Index des Biographies des Entomologistes dans les Publications Canadiennes, 2016-2020 (Cedric Gillott)	143
In memory / En souvenir de	
David M. Rosenberg (Donna Giberson, Allen Wiens, Terry Galloway, Vince Resh, Trefor Reynoldson, and Bob Newbury)	152
Books available for review / Livres disponibles pour critique	153
Book review / Critique de livre	
Pollinators & Pollination: Nature and Society, by J. Ollerton, J. (Peter Bernhardt and Peter Kevan)	155
Society business / Affaires de la Société	
Highlights of the recent Board of Directors meeting	156

Executive Meeting - Call for Agenda Items / Réunion du conseil exécutif – Points à l'ordre du jour	157
Annual Financial Statements / États financiers annuels	157
71st Annual Meeting of Members and Board of Directors Meetings / 71e assemblée annuelle des membres et réunions du conseil d'administration	158
Members' discounts / Remise pour les membres	95
Call for Nominees: ESC Achievement Awards / Appel à candidature: Prix d'excellence de la SEC	159
Seeking next ESC Treasurer / À la recherche du prochain trésorier de la SEC	162
Announcement / Annonce	
Diagnostic Entomology Photography Workshop	163
List of Contents: Regional Journals / Table des matières : Revues des sociétés régionales	
Journal of the Acadian Entomological Society Volume 17 (April 2021)	164
Contents of newsletters / Contenu des bulletins	
Canadian Weed Science Society / Société canadienne de malherbologie	165
Canadian Phytopathological Society / Société Canadienne De Phytopathologie	166
Newsletter of the Biological Survey of Canada / Commission biologique du Canada	167
Meeting announcements / Réunions futures	168
Officers of affiliated societies / Dirigeants des sociétés associées	170
The last word / Le dernier mot	171
Governing board / Conseil d'administration	inside back cover



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Submission Deadline for the December 2021 Issue of CPS-SCP News

PLEASE NOTE: The submission deadline for the December 2021 issue of CPS - SCP News is **November 26, 2021**. 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.

