

CPS • SCP *News*



CANADIAN PHYTOPATHOLOGICAL SOCIETY • SOCIÉTÉ CANADIENNE DE PHYTOPATHOLOGIE

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President's Message

Dear CPS members,

I am writing to convey my very best wishes to all CPS members, their families and their friends.



Odile Carisse
CPS-SCP President/présidente

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I want to take this opportunity to express my sincere thanks to all CPS members who contributed to make 2016 an eventful year. The past 12 months have been marked by a great Annual Meeting in Moncton featuring a well-attended workshop and symposium, our new video contest, and the first CPS speaker, Dr. G. Bilodeau, attending the British Society of Plant Pathology Annual Meeting. As we reflect on the past year, I believe that we have many reasons to have enormous pride in our Society and accomplishments, and I look forward with enthusiasm to next year.

In 2016, we entered a disturbing new era, the 'post factual era', meaning that the general public is exposed to false utterances and contradictory information creating a climate of confusion and uncertainty. For scientists, however, uncertainty is a powerful motivation for doing research and acquiring new knowledge. In this context, our role in communicating research results is more important than it ever was. As a scientific society, we can play a major role in promoting good and ethical science, high quality training of future plant pathologists, and effective communication to the scientific community and to the general public.

Since our Annual General Meeting in Moncton, the CPS Board has had a few meetings to discuss various issues and make decisions regarding several subjects. I must say that I was surprised by the number of emails and phone calls related to CPS business. Fortunately, there are several volunteers committed to ensure that the Society runs efficiently. I believe that a society such as the CPS can exist, adapt and progress because of strong pillars. For the CPS, these are incarnate by Gayle Jespersen, our Secretary, who makes sure that we are keeping track of decisions made, ensures that Board members have

access to accurate information, and makes certain that we are respecting the rules; she is our memory. Also, by Kenneth Conn, our Treasurer, who undertakes rigorous management of our finances. Ken is making sure that the money collected through CPS memberships is put it to good use. Finally, but not least, Vikram Bisht, our Membership Secretary, has been doing a great job encouraging members, sometimes with several friendly reminders, to renew their memberships, and non-members to join the Society. The CPS is a well-thought-of scientific society and we must do our best to promote it and attract new members. In your own environment, make an effort to talk about our Society and encourage recently hired scientists (and old ones), post-docs, or students to join the CPS. I can tell many

good reasons to be a member of the CPS, and renewing CPS membership or becoming a new member is now easy and fully online!

What to say about the other CPS Board members? Maybe that Brent McCallum as Past President is so helpful and knowledgeable on how the Society works, and is committed to keeping it dynamic and open to what is happening in the world. Denis Gaudet, President-Elect, has been involved with CPS for several years and is working hard to make the 2017 Annual Meeting in Winnipeg a success. Dilantha Fernando will be CPS President in 2018, year of the International Congress of Plant Pathology in Boston. Dilantha will present the Glenn Anderson Lectureship on World Food Security Award sponsored by the CPS. Zamir Punja is the guy who put the *Canadian Journal of Plant Pathology* on the map and brought it to an impact factor above 1.2; we can be proud of our journal.

Khalil Al-Mughrabi, Director-at-Large, is always willing to bring forward new ideas and information so that the Board can make informed decisions. Maria Antonia Henriquez is newly on board and is actively involved in

“As a scientific society, we can play a major role in promoting good and ethical science, high quality training of future plant pathologists, and effective communication to the scientific community and to the general public.”

organizing the 2017 CPS Annual Meeting workshops. If I can communicate with you through the *CPS News*, it is because of the exceptional work of Coreen Franke, Editor, and Linda Jewell, Associate Editor. They work hard to get the Newsletter out on time!

I'm sorry I could not attend all of the regional meetings across the country this fall, but I was able to attend the Quebec Society for Plant Protection in Nicolet, which was a joint meeting with the Quebec Society of Entomology and the Eastern Ontario Regional (CPS-EOR) in Ottawa. Thanks to Miao Liu for organizing a great and very well attended meeting. At all of the meetings that I've attended this year (national and regional), I've

noticed the active involvement of graduate students and the quality of their presentations (oral or poster). CPS students continue to achieve at the highest levels of accomplishment. Thanks to all CPS members who invested their time organizing regional meetings. These meetings are important; they represent an opportunity for several CPS members to attend a plant pathology meeting, as they might not be able to attend national or international meetings. For graduate students, it is an occasion to present their work in a less stressful environment and to become experienced for national meetings.

The next CPS meeting (June 18-21, 2017) will be held jointly with the Canadian Society of Agronomy (CSA) in the great city of Winnipeg at the Delta Winnipeg Hotel. As always, this is an opportunity to network with CPS colleagues and with our CSA colleagues. The Local Arrangements Committee composed of Fouad Daayf, Yvonne Lawley, and Jim Menzies, has already put together an impressive team of collaborators to make sure that the meeting will be unforgettable. The preliminary program considers symposia and workshops on diverse topics to suit most attendee's interests. With everyone's busy schedules, make sure to mark down right now those dates and register for the meeting as soon as possible! This year, our speaker exchange with the British Society of Plant Pathology will continue and we will welcome a BSPP speaker at our Annual Meeting in Winnipeg.

I would like to encourage everyone, and especially Supervisors of graduate students, to nominate colleagues and graduate students for the CPS awards. Nominations can be submitted to Michael Harding, Chair of the Awards Committee, at Michael.Harding@gov.ab.ca.

The Canadian Phytopathological Society is a great scientific society. Thanks for being part of it and thanks so much for helping to make the past year so great. I invite you to join me in anticipating what we will accomplish together in the year to come.

With very best wishes,
Odile Carisse



Message de la présidente

Chers membres de la Société,

Je vous écris pour vous transmettre, ainsi qu'aux membres de vos familles et à vos amis, mes vœux les plus chaleureux.

Je veux profiter de cette occasion pour remercier sincèrement tous les membres de la Société canadienne de phytopathologie (SCP) qui ont contribué à faire de 2016 une année fertile en événements. Les 12 derniers mois ont été marqués par une réunion annuelle fantastique tenue à Moncton avec, à la une, un atelier et un symposium qui ont attiré beaucoup de monde, notre nouveau concours de vidéo et le premier conférencier de la SCP, G. Bilodeau, qui a assisté à la réunion annuelle de la Société britannique de phytopathologie (SBP). En réfléchissant à l'année qui vient de se terminer, je crois que nous avons plusieurs raisons d'être fiers de notre Société et de ses réalisations, et c'est avec enthousiasme que j'anticipe la prochaine.

En 2016, nous avons amorcé une nouvelle ère inquiétante, l'« ère post-factuelle », signifiant que le grand public est exposé à de fausses déclarations et à des informations contradictoires instaurant un climat de confusion et de doute. Toutefois, pour les scientifiques, le doute est un puissant facteur de motivation qui favorise la recherche et l'acquisition de nouvelles connaissances. Dans ce contexte, notre rôle en ce qui a trait à la transmission des résultats de recherche est plus important que jamais. En tant que société scientifique, nous pouvons jouer un rôle de premier plan en promouvant une science objective basée sur le respect de l'éthique, une formation de très haut niveau pour les futurs phytopathologistes et une transmission efficace de l'information à la communauté scientifique et au grand public.

Depuis notre réunion annuelle qui a eu lieu à Moncton, le conseil de la SCP s'est réuni à quelques reprises pour discuter de certaines questions et prendre des décisions relatives à quelques sujets. Je dois dire que j'ai été surprise par le nombre de courriels et d'appels téléphoniques reçus concernant les affaires de la SCP. Heureusement, l'implication de plusieurs bénévoles fait que notre

société fonctionne efficacement. Je crois qu'une société comme la SCP ne peut exister, s'adapter et progresser sans l'appui de solides piliers. Pour la SCP, ces derniers sont incarnés par Gayle Jespersen, notre secrétaire, qui s'assure que nous ne perdons pas de vue les décisions prises, qui garantit que les membres du conseil ont accès à de l'information précise et qu'ils respectent les règles : elle est notre mémoire. Également, par Kenneth Conn, notre trésorier, qui gère rigoureusement nos finances. Ken s'assure que l'argent provenant des adhésions des membres est utilisé à bon escient.

Enfin, mais non le moindre, Vikram Bisht, notre secrétaire aux adhésions, a accompli un travail remarquable pour ce qui est d'encourager les membres, parfois à l'aide de quelques rappels amicaux, à renouveler leur adhésion et les non-membres à se joindre à la Société. La SCP est une société scientifique qui a bonne presse et nous devons faire de notre mieux pour la promouvoir et attirer de nouveaux membres. Faites un effort pour parler de notre société à votre propre entourage et encouragez les scientifiques récemment embauchés (ainsi que ceux qui sont déjà en poste depuis longtemps), les post-doctorants ou les étudiants à se joindre à nous. Je peux citer de nombreuses raisons pour être membre de la SCP, de plus, renouveler son adhésion ou devenir membre est plus facile que jamais, car il est maintenant possible de le faire intégralement en ligne!

Quoi dire des autres membres du conseil de la SCP? Peut-être que Brent McCallum, à titre de président sortant, est des plus utiles et des plus compétents en ce qui a trait au fonctionnement de notre société et est engagé à en maintenir le dynamisme et l'ouverture sur ce qui se passe dans le monde. Denis Gaudet, le président désigné, est impliqué dans la SCP depuis plusieurs années et travaille d'arrache-

pied pour faire un succès de la réunion annuelle de 2017 qui se tiendra à Winnipeg. Dilantha Fernando sera présidente de la SCP en 2018, année du Congrès international de pathologie végétale qui se tiendra à Boston. Dilantha présentera la Conférence Glenn Anderson relative aux prix sur la Sécurité alimentaire mondiale, commanditée par la SCP.

Zamir Punja est l'homme qui a fait connaître la *Revue canadienne de phytopathologie* et qui lui a permis d'atteindre un facteur d'impact de plus de 1,2 : nous pouvons être fiers de notre revue. Khalil Al-Mughrabi, directeur non désigné, est toujours prêt à proposer de nouvelles idées et des

“En tant que société scientifique, nous pouvons jouer un rôle de premier plan en promouvant une science objective basée sur le respect de l'éthique, une formation de très haut niveau pour les futurs phytopathologistes et une transmission efficace de l'information à la communauté scientifique et au grand public.”

renseignements qui permettent au conseil de prendre des décisions éclairées. Maria Antonia Henriquez vient de se joindre au conseil et est impliquée activement dans l'organisation des ateliers pour la réunion annuelle de 2017. Si je peux communiquer avec vous par l'entremise du *CPS/SCP News*, c'est grâce au travail exceptionnel qu'accomplissent Coreen Frank, la rédactrice, et Linda Jewell, sa rédactrice adjointe. Elles travaillent dur pour que le bulletin paraisse à temps!

Je m'excuse de n'avoir pu assister à toutes les réunions régionales l'automne dernier, mais j'ai pu assister à celle de la Société de protection des plantes du Québec, à Nicolet, qui était une réunion conjointe tenue avec la Société d'entomologie du Québec et l'Eastern Ontario Regional (SCP-EOR) d'Ottawa. Merci à Miao Liu d'avoir organisé une superbe réunion à laquelle on a assisté en masse. J'ai remarqué, à toutes les réunions auxquelles j'ai assisté cette année (nationale et régionales), la participation active des étudiants diplômés et la qualité de leurs présentations (orales ou affiches). Les étudiants membres de la SCP continuent d'atteindre les plus hauts niveaux de réalisation. Merci à tous les membres qui investissent leur

temps dans l'organisation des réunions régionales. Ces réunions sont importantes : elles représentent une occasion pour plusieurs membres de la SCP, qui ne pourraient autrement assister à des réunions nationales ou internationales, d'assister à une réunion traitant de phytopathologie. Pour les étudiants diplômés, c'est une occasion de présenter leurs travaux dans un contexte moins stressant et d'acquérir de l'expérience en vue des réunions nationales.

La prochaine réunion de la SCP (du 18 au 21 juin 2017) se tiendra conjointement avec la Société canadienne d'agronomie (SCA) dans la belle ville de Winnipeg, au Delta Hotels Winnipeg. Comme toujours, c'est une occasion de prendre contact avec nos collègues de la SCP et de la SCA. Le comité organisateur local, composé de Fouad Daayf, d'Yvonne Lawley et de Jim Menzies, a déjà assemblé une impressionnante équipe de collaborateurs afin de s'assurer du succès retentissant de cette réunion. Le programme préliminaire vise à organiser des symposiums et des ateliers sur divers sujets susceptibles d'intéresser la majorité des participants. Étant donné que vous avez tous des horaires très chargés, assurez-vous de noter ces dates dans votre agenda et de vous inscrire à la réunion le plus tôt possible! Cette année, notre échange de conférenciers avec la SBP se poursuivra et nous accueillerons un de leurs conférenciers à notre réunion annuelle de Winnipeg.

Je voudrais vous encourager tous, et particulièrement les superviseurs d'étudiants diplômés, à proposer de leurs collègues et de leurs étudiants pour les prix de la SCP. Les propositions peuvent être soumises à Michael Harding, président du comité des prix, à l'adresse suivante : Michael.Harding@gov.ab.ca.

La Société canadienne de phytopathologie est une grande société scientifique. Merci d'en faire partie et merci beaucoup d'avoir fait de 2016 une année aussi féconde. Je vous invite à vous joindre à moi pour prévoir ce que nous accomplirons ensemble dans le courant de la nouvelle année.

Avec mes vœux les plus sincères,
Odile Carisse



REGIONAL MEETING REPORTS

CPS-BC 2016 Regional Meeting Report

The CPS-BC Regional meeting was held on October 27-28, 2016, at the Summerland Research and Development Centre, Agriculture and Agri-Food Canada, Summerland, B.C. The meeting was organized and hosted by the Local Arrangements Committee consisting of Dr. José Ramón Úrbez-Torres, Dr. Tom Forge, Julie Boule and Melanie Walker. The meeting was well attended by a total of 53 attendees (18 students) including participants from AAFC Summerland, B.C. Ministry of Agriculture Kelowna and Abbotsford, Natural Resources Pacific Forestry Centre Victoria, Thompson Rivers University, University of British Columbia (UBC) Vancouver and UBC Okanagan, Simon Fraser University, B.C. Tree Fruit Company, and Cawston Orchard Management. The meeting agenda captured a wide range of phytopathological topics in Agriculture and Forestry.

Following registration and welcoming remarks, the formal part of the program consisted of three oral presentation sessions and one poster presentation session. There were a total of nineteen oral presentations and eleven poster presentations. The awards given for the student presentation competition were as follows:

1. 1st place - Best Oral Presentation Award went to **Eric Vukicevich**, UBC Okanagan, for his presentation "The effect of ground cover vegetation on the ecology of grapevine root-associated fungi"
2. 2nd place - Best Oral Presentation Award went to **Syed Benazir Alam**, UBC Vancouver, for her presentation "Targeting of cucumber necrosis virus (CNV) coat protein to chloroplasts associated with attenuation of necrotic symptoms during infection of *Nicotiana benthamiana*"
3. 1st place - Best Poster Presentation Award went to **Paige Munro**, UBC Okanagan, for her poster "Expansion of sweet cherry production in the BC Interior under climate change: a bioassay approach"

4. 2nd place - Best Poster Presentation Award went to **Dylan Ziegler**, Thompson Rivers University, for his poster "A thirst for more: morphological changes in *Arceuthobium americanum* indicate substantial water theft from its host, *Pinus contorta* subsp. *Latifolia*"
5. There was a new additional postdoctoral presentation competition and an award was presented to **Dr. Krinpreet Mann** from the Summerland Research and Development Centre for his presentation "Characterizing the genomic organization of the Canadian isolates of Strawberry mottle virus: identification of cleavage sites and mapping of functional protein domains within the polyproteins"



Student awardees from left to right: Dylan Ziegler, Syed Benazir Alam, Eric Vukicevich, and Paige Munro with Vippen Joshi



Postdoctoral awardee Dr. Krinpreet Mann with Vippen Joshi

The first day of the scientific presentations part of the meeting was followed by a nice dinner, awards ceremony, and a guest speaker's presentation. **Dr. John Klironomos** from UBC Okanagan was an invited speaker and gave a presentation entitled "Below-ground fungi as drivers of the plant community dynamics". The student presentation competition awards were presented to the students by Vippen Joshi, CPS-BC Regional Representative.

Vippen Joshi conducted the business meeting towards the end of the two half-days meeting. CPS

President Odile Carisse's message was read by Gayle Jespersen (CPS Secretary) at the beginning of the meeting. Thanks were extended to the Local Arrangements Committee, to the Bank of Montreal for their contribution in sponsoring this meeting, and to the judges of the student presentation competition. Next year's regional meeting is to be held in October 2017 at the Pacific Forestry Centre in Victoria, BC.

Respectfully submitted by:
Vippen Joshi, CPS-BC Regional Representative



Group photo: CPS-BC Regional Meeting, October 27-28, 2016



CPS-SK 2016 Regional Meeting Report

A well-attended CPS-SK Regional Meeting was held at the Agriculture and Agri-Food Canada building in Saskatoon on December 5th, 2016. The meeting opened with President's remarks submitted by CPS President Odile Carisse, read by Yu Chen (CPS Saskatchewan Regional Representative), followed by a full day agenda of inspiring scientific presentations. A total of 46 people attended this meeting.

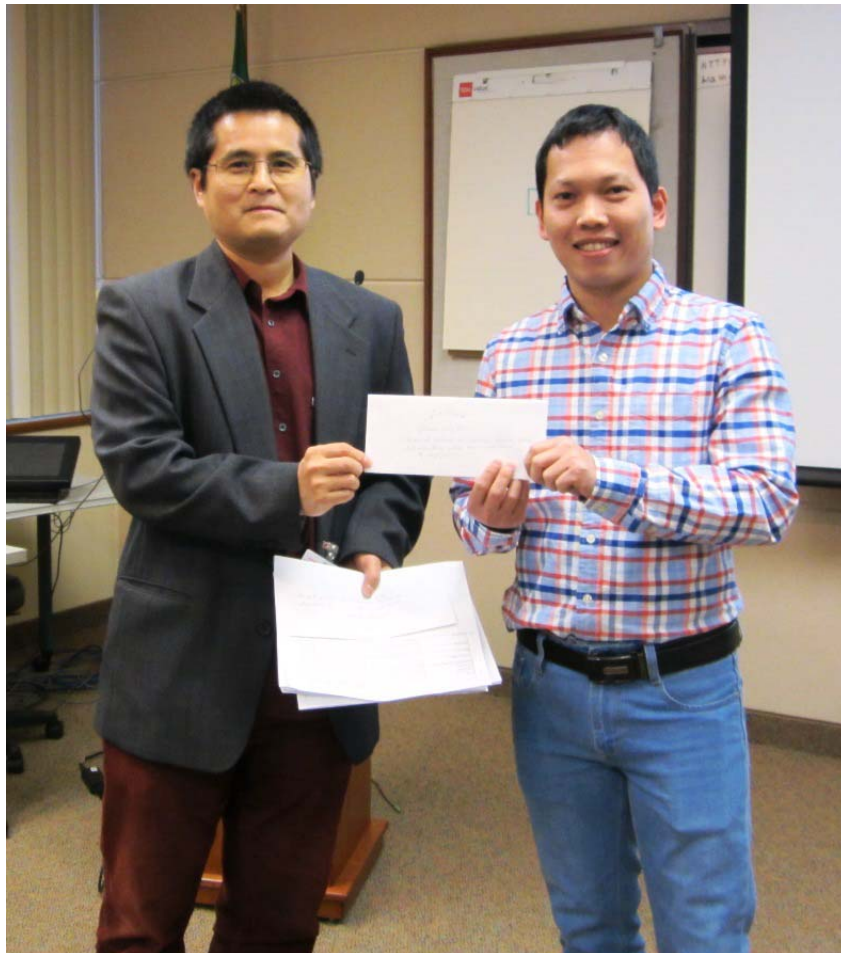
There were three sessions of presentations. A total of 18 oral presentations were given, including 8 student oral presentations and 6 feature presentations. The presentations covered plant diseases on a wide range of crops such as wheat/durum, canola, field peas/lentils and even weeds. Research projects included fundamental,

molecular, biological, breeding and resistance management strategies.

University of Saskatchewan students **Quang Huy To** and **Solmaz Irani** won 1st and 2nd place awards, respectively, for the student oral presentation competition. Their presentation titles were:

- 1) Quang Huy To: "Chemical defense in crucifers: abiotic stress and wounding induce the accumulation of oxylipins"
- 2) Solmaz Irani: "Transcriptomic changes in root and shoot following infection with clubroot pathogen in Arabidopsis"

Thirteen abstracts for oral presentation and three abstracts for posters were submitted. Three



Yu Chen (left) presents Quang Huy To with the 1st place award for best student presentation



Solmaz Irani (right) receives the award from Yu Chen for 2nd place in the best student presentation competition

abstracts were submitted for publication in the *Canadian Journal of Phytopathology*.

Five local CPS members (Coreen Franke, Lone Buchwaldt, Gary Peng, Bruce Gossen and Yu Chen) formed a local arrangements committee and three other CPS members (Barbara Ziesman, Godfrey Chongo and Jianwei Zhao) volunteered as student competition judges. Many thanks go out to BASF

and Bayer Crop Science for their generous support of this meeting.

We are expecting another successful CPS-SK Regional meeting in 2017.

Respectfully submitted,

Yu Chen,
CPS-SK Regional Representative



CPS-MB 2016 Regional Meeting Report

The 2016 Manitoba Regional Meeting of the Canadian Phytopathological Society was held on the 12th December at the University of Manitoba (Department of Plant Science, Faculty of Agricultural & Food Sciences). This year's meeting was attended by 24 people.

Registration with coffee and donuts started at 8:30 am. Dr. Fouad Daayf, the Manitoba regional chair for CPS, welcomed the attendees.

Disease updates followed: Jim Menzies (smuts, crown rust, and ergot); Winnie McNabb (leaf and stripe rust); Taye Zegeye (leaf rust); Holly Taylor (corn, canola, and soybean diseases); Khalid Rashid (flax and sunflower diseases: verticillium, rusts, sclerotinia rots, downy mildews); Yong Min Kim (Field bean, field pea, and soybean diseases). Most of the information presented will be published in the Canadian Plant Disease Survey.

This year, there were five presentations:

- **X. Zhu**, A. Soliman, M.R. Islan, L.R. Adam, F. Daayf. NADPH oxidase genes NoxA and NoxB of *Verticillium dahliae* are required for its pathogenicity on potato (oral student presentation)
- **Shumilak**, A. Soliman, L.R. Adam, J.T. Tambong, L.M. Reid, F. Daayf. Investigating gene interaction into the suppression of *Clavibacter michiganensis* subsp. *nebraskensis*, the causal agent of Goss's Wilt in susceptible and tolerant inbred lines of corn (*Zea mays* L.) (oral student presentation)
- D.L. McLaren, M.A. Henriquez, R.L. Conner, **Y.M. Kim**, S.F. Hwang, K.F. Chang, S.E. Strelkov, B.D. Gossen, T.L. Henderson, T.J. Kerley and W.C. Penner. Isolation and race characterization of *Phytophthora sojae* from Manitoba soybean fields. (poster presentation)
- **Y.M. Kim**, M.A. Henriquez, D.L. McLaren, R.L. Conner, R.M. Lange, S.F. Hwang and K.F. Chang. Evaluation of field pea and dry bean for susceptibility to *Fusarium oxysporum* f. sp. *conglutinans*. (poster presentation)
- **F. Daayf**. Mechanisms of *V. dahliae*'s interaction with its hosts.

After Lunch and a short coffee break, awards were presented to two students. The best student oral presentation went to **Xiaohan Zhu** (supervisor: Dr. F. Daayf), and second place went to **Alex Shumilak** (supervisor: Dr. F. Daayf). The business meeting followed shortly after.

Business meeting

After welcoming the members, Dr. Daayf thanked all those in the audience for coming and called for the adoption of the minutes from last year's meeting. The minutes were accepted (Menzies/Rashid). Dr. Daayf presented a short financial update of the Manitoba regional section, after which, a motion (Rashid/Menzies) was adopted to raise the best presentation award value to \$100 for the runner-up and \$150 for first place.

Dr. Menzies, as co-Chair of the LAC, provided the members with an update on the preparations for the 2017 annual meeting of the CPS, which will be held in Winnipeg next June.

On a motion by Derksen/Menzies, the members voted to have the next year's regional meeting in Morden, Manitoba. Dr. Daayf thanked Mrs. Bev Godard and Mr. Lorne Adam for their help with this year's local arrangements of the CPS-Manitoba section meeting.

The meeting was adjourned at 3:00 pm.

Respectfully submitted,

Dr. Fouad Daayf
CPS-MB Regional Representative



REPORT FROM PLANT CANADA



Dear members of Plant Canada,

The end of the year is a time to take stock and reflect—not just on how far we’ve come, but also on our goals for the year to come.

Some of the Plant Canada’s achievements during 2016 include:

- Plant Canada sponsored its first ever best student presentation student award in 2016. The recipient was a student at the CSPB Eastern Regional Meetings in 2016.
- Plant Canada, which was incorporated on July 31, 2015, held its first annual meeting of members on September 15, 2016.
- Plant Canada approved amendments to the PC by-law. The By-law document is a dynamic document and we will be making amendments as required in the years to come.
- In October 2016, I represented Plant Canada at the 2016 Global Plant Council AGM in Brisbane, Australia.
- I represented Plant Canada and my employer at National Plant Health Network, from November 23-24, 2016 in Guelph, ON and then at National Plant and Animal Health Planning Forum from December 6-7, 2016 in Ottawa, ON.

On behalf of Plant Canada, I extend my thanks to the current PC Board, the members in each of the seven societies under the Plant Canada umbrella, and the previous PC board for your contributions through out the year.

Our goals for 2017 include obtaining charity status for Plant Canada, appointment of an auditor, establishing a Plant Canada Award for Best Plant Science Project at regional fairs , finding ways to raise funds and promote Plant Canada in Canada, and most Importantly, to make progress in organizing the Plant Canada 2019 meeting. I look forward to your continued support with these initiatives.

I wish you peace, health, happiness and prosperity for the coming year.

Sincerely.

Deena Errampalli
President, Plant Canada

***Best wishes for a
productive 2017!***



Rainbow Lorikeet in Brisbane, Australia

UPCOMING MEETINGS



CPS-CSA 2017 Joint Meeting



**Joint Annual General Meeting of the
Canadian Phytopathological Society and
The Canadian Society of Agronomy**

June 18 to 21, 2017

**Delta Hotels Winnipeg
350 St. Mary Avenue, Winnipeg, MB**

On behalf of the local arrangements committee of the 2017 joint meeting of the Canadian Phytopathological Society (CPS) and the Canadian Society of Agronomy (CSA), we invite you to join us at the Delta Winnipeg Hotel, 350 St. Mary Avenue, Winnipeg, MB. The CPS and CSA are excited by the opportunity to co-host this 2017 joint meeting to enhance interaction between members of the two societies and broaden educational opportunities for their members.

The objectives of the CPS are to encourage research, education, and the dissemination of knowledge on the nature, cause, and control of plant diseases. CPS sponsored national and regional meetings promote communication among plant pathologists, and those interested in plant diseases from industry, government and academia.

The CSA is dedicated to enhancing cooperation and coordination among agronomists, recognizing significant achievements in agronomy, and providing opportunities to report and evaluate information pertinent to agronomy in Canada.

The joint meeting attracts research, industry and extension personnel from across Canada, the U.S.A. and internationally, with an expected attendance of 150 to 175. Presentations and posters will cover field crops, horticulture and forestry, ranging from applied research through to basic research. We are planning on having three symposia and three workshops. The symposia and workshops are as follows:

Symposia:

1. A joint CPS/CSA symposium entitled “Toxigenic *Fusarium* Species and Mycotoxins: Challenges and Perspectives.
2. A CPS sponsored symposium on soybean and pulse crop diseases
3. A CSA sponsored symposium entitled “Extending the Growing Season”

Workshops:

1. Conventional and Molecular Methods for detecting *Phytophthora sojae* and Fusarium Head Blight Pathogens
2. Experimental Design and Statistics
3. Manuscript preparation

The workshops will occur on Sunday afternoon, June 18th. Workshop 1 will likely run from 1:00 pm to 5:00 pm at an additional cost of \$30.00. Workshop 2 will likely run from 1:00 pm to 3:00 pm at an additional cost of \$20.00. Workshop 3 will likely run from 3:00 pm to 5:00 pm at an additional cost of \$20.00.

There will also be a Field Tour organized for Thursday, June 22nd at an estimated additional cost of \$100.00. This tour will likely include visiting research sites at Carman, Morden and Richardson International Kelburn Farm.

Symposia and workshops are open to all registrants.

There will be poster and oral presentation sessions, a welcome reception on Sunday evening, a graduate student social on Monday evening and a banquet on Tuesday evening.

For more information, contact:

Fouad Daayf: daayf@ad.umanitoba.ca

Yvonne Lawley: yvonne.lawley@umanitoba.ca

Jim Menzies: jim.menzies@agr.gc.ca

or visit the CPS website at: <http://phytopath.ca/meetings/cps-annual-meeting/>



The Potato Association of America

"A Professional Society or Advancement of the Potato Industry"



The Potato Association of America's 2019 Annual meeting will be held in Winnipeg, Manitoba (for the first time). The Annual meeting is mostly held in the US; however, every few years it is held in Canada. Previous recent meetings in Canada were in New Brunswick (2009) and in Quebec (2013). Mark your calendars for the meeting planned for **July 28 to August 01, 2019**.

Dr. Vikram Bisht,
Chair, Local Arrangements Committee,



CPS Microbial Genetics and Culture Collections

Dear CPS members,

I am Guillaume Bilodeau, and I am the Chair of the "CPS Microbial Genetics and Culture Collections" Committee. This committee hasn't been very active in the last few years, and I had initiated some conversations with some of you at the last Annual Meeting in Moncton. I would like to encourage you to contact me if you have any concerns, questions and especially ideas on how the CPS can help with the CPS Microbial Genetics and Culture Collections. I have spoken with some people involved with the AAFC collection at DAOM, but I would like to get more feedback. A few years ago, some discussion by the Federal Government was initiated with FLIG (Federal Laboratories Integrated Governance) on how to deal with our collection and orphan collections, but I'm sure we are probably dealing with similar issues in Academic, Provincial and

some industry collections. Please let me know if you have any comments and if you would be interested in joining me on the committee to see how CPS can work to make sure our Microbial Genetics and Culture Collections are in good shape in Canada. If needed, we can organize a Webex conversation to communicate. I can be contacted at Guillaume.Bilodeau@inspection.gc.ca



CALL FOR NOMINATIONS

Nominations for CPS Board and Committees 2017-2018

The CPS is a volunteer society run by the hard work and dedication of many people across the country who make the CPS the great society it is for the members. Each year we recruit new (or returning) volunteers to keep our society dynamic and vibrant. Please consider volunteering for one of the positions below, or talk to colleagues who might be interested. This is a great way to learn about science in Canada and develop your network of colleagues and contacts to build your career.

The Nominating Committee is seeking nominations to the CPS Board of Directors and Standing committees for 2016 -17 from the CPS membership:

CPS Board of Directors

Vice President (1 position. A 4-year term, Vice President becomes President-Elect, then President and the following year Past President).

Junior Director-at-Large (1 position. A 2-year term, becomes Senior Director in Year 2).

For Standing Committees: we need a new member for each of the following:

- CPS Awards Committee (1 position)

- CPS Education committee (1 position)
- CPS Nominating Committee (1 position)
- CPS Public Relations Committee (1 position)
- CPS Resolutions Committee (1 position)

More information on the Board of Directors and the CPS committees can be found in the CPS Operations Manual at: <http://phytopath.ca/wp-content/uploads/2016/06/CPS-operations-manual-2016.pdf>

Also, the committee membership for this year is at:

<http://phytopath.ca/wp-content/uploads/2016/10/CPS-committees-2016-17.pdf>

If you would like to serve, or nominate a colleague, please make sure you have assent of the candidate that you are nominating. Please send the name of the nominee, contact information and position on the Board or a CPS committee to;

Brent.McCallum@agr.gc.ca, by FEBRUARY 5, 2016.

Sincerely,
Brent McCallum
Chair of the CPS Nominating Committee

CPS AWARDS 2017

Please take some time to nominate your colleagues and students for one of the CPS awards. The awards are summarized below. Full awards details and criteria may be found at <http://phytopath.ca/about-cps/cps-awards/>. Awards will be presented at the Canadian Phytopathological Society Annual General Meeting, Winnipeg, MB, June 18-21, 2017. Completed nominations should be sent to Michael Harding, CPS Awards Committee Chair, at: michael.harding@gov.ab.ca by **March 15, 2017**.

Available CPS Awards

1. Honorary Member

This award is open to any person who has rendered eminent service to plant pathology and is normally not a member of the Society. Submit a letter of recommendation outlining service and achievements.

2. Fellow

This award is open to regular members of the Society who have rendered outstanding service to the Society and to the profession. Submit letter of recommendation outlining services and achievements.

3. Award for Outstanding Research

As the Society's most prestigious award, it recognizes outstanding research in plant pathology in Canada. Consideration is given to research involving new concepts, phenomena, or principles in plant pathology. Submit letter of recommendation outlining research achievements.

4. Outstanding Young Scientist Award

This award recognizes the contributions of a junior scientist (under 45 years of age) who has made an outstanding contribution to plant pathology in Canada. Submit letter of recommendation outlining:

- superior research accomplishment, either as a single contribution or as a series of associated endeavours, in plant pathology or in a related field
- meritorious contribution to plant pathology scholarship or literature, whether or not this is based upon the recipient's own original research, and whether or not it be based upon predominantly Canadian material
- unusually valuable practical application of scientific or technological expertise
- significant leadership in plant pathology

5. Graduate Student Travel Awards (2 awards of \$500 each)

This award provides reimbursement of travel, accommodation, registration and other costs to attend the CPS Annual Meeting. The student must be in a MSc or PhD research program in plant pathology, but does not need to be a CPS member. The application must include:

- A copy of the abstract of the presentation to be published in the *Canadian Journal of Plant Pathology*
- A one-page statement from the student outlining the significance and implications of the research to be presented
- Academic transcripts inclusive of undergraduate and graduate training

6. Achievements in Plant Disease Management

This award recognizes individual or team contributions from industry or not-for-profit agencies, for innovative research, development of products and technologies, and/or transfer of information for the benefit of disease management in Canada. Supporting evidence and up to 3 letters of reference are required to substantiate contribution to:

- scientific research on products and technologies used in plant pathology
- innovative solutions to problems in plant pathology
- participation in plant pathology extension
- volunteer support to the Society

7. CPS Education Award (open to CPS members and public, including school students)

This award recognizes contributions by individuals or groups for the development of teaching resources that can be used by instructors in public schools or universities to illustrate the importance and (or) principles of plant pathology and related topics. Resources could include videos, websites, software, experimental designs, new texts, posters, or articles of educational interest.

8. Best Student Presentation Awards

Best Student Presentation Awards for oral and poster presentations are evaluated during the CPS Annual Meeting. Submit a copy of the abstract to the Awards Committee indicating the type of presentation. The evaluation criteria are based on content and organization and presentation.

9. Graduate Student Scholarships (up to 3 scholarships of \$1500 each plus paid CPS membership)

Scholarships are available to undergraduate, MSc and PhD students studying at a post-secondary institution in Canada. Following the award of the CPS Graduate Student Scholarship, candidates are expected to present their research at a national or regional CPS meeting at some future date and their supervisors are requested to provide a short biography of the student for the quarterly newsletter of the Canadian Phytopathological Society. Application submissions require:

- Two letters of support/reference from an academic or work supervisor who has known the candidate for at least 12 months
- A personal statement consisting of one page that outlines the applicant's motivation for pursuing graduate studies in plant pathology, as well as future goals, their personal activities that demonstrate research abilities and leadership, e.g., publications, teaching, volunteerism, community involvement, etc.
- An essay on a topic in plant pathology or an original research proposal that demonstrates the applicant's ability to communicate and organize ideas. Maximum of 3 pages in length, typed double-spaced, 12-point font
- Copies of academic transcripts for undergraduate studies and graduate studies if applicable
- Evidence of registration in a graduate program, (letter from supervisor or documentation from university, such as a tuition receipt)



PEOPLE AND EVENTS

Dr. Dilantha Fernando Speaks at Scientific Meetings Abroad

Dr. Dilantha Fernando, Professor in Plant Science at the University of Manitoba was a keynote speaker at the 20th International Crucifer Genetics Conference and the 19th Australian Research Assembly on Brassicas (Brassica 2016), held in Melbourne, Australia, from October 3-7, 2016. Dilantha's presentation was titled "Advancements made in host-pathogen interactions research in canola in Canada: a look through successes and challenges". Dilantha was also invited to be a session chair at the same conference.



Dr. Dilantha Fernando, Dept. of Plant Science, University of Manitoba was an invited seminar speaker at the Department of Plant Pathology and Environmental Microbiology, Pennsylvania State University, State College, PA, USA on December 5, 2016. Dilantha's presentation was titled, "The war of the titans: the continuous battle between wheat and fusarium". On December 6, he gave a second seminar on the canola-blackleg pathosystem. The title of the presentation was "Do genes hijack, hitchhike, and play hide-and-seek? Lessons from the canola-blackleg playbook". Dilantha had one on one meetings with several faculty members and a luncheon organized by the graduate students.



Dr. Deena Errampalli Appointed to Global Plant Council Executive Board

Congratulations!

Dr. Deena Errampalli has been appointed to the Global Plant Council (GPC) Executive Board for a two year term, 2016-2018. She will represent North America on the GPC Board. <http://globalplantcouncil.org/about-us/executive-board/deena-errampalli>

Plant Canada Federation of Canadian Plant Science Societies (Errampalli is the current President) <http://plantcanada.ca/> is a founding member of the GPC. Canadian Phytopathological Society (CPS) is a member society of Plant Canada. Deena Errampalli is a current member and Former President of the CPS (2014-15).

The Global Plant Council is a coalition of national, regional and international societies and affiliates representing plant, crop and agricultural and environmental sciences across the globe. The GPC seeks to bring together all those involved in plant and crop research, education and training, to facilitate the development of plant science for global challenges such as world hunger, energy, climate change, health and well-being, sustainability and environmental protection. **For more information on the GPC, visit <http://globalplantcouncil.org/home>**



INTERNATIONAL NEWS

USDA APHIS Proposes to Update Regulations

USDA APHIS is proposing to amend the Federal Plant Pest Regulations located in the U.S. Code of Federal Regulations (CFR), Part 330. This would update the permitting regulations for plant pests, biological control organisms (BCO), and associated articles, including soil, to reflect APHIS current business processes. APHIS also proposes to exempt certain low-risk plant pests and BCOs from permitting requirements. In this proposal, we would publish an initial draft list of exempted organisms for public comment. To be exempt from permitting requirements, the low-risk plant pests and BCOs would have to meet the following criteria that would be established in the federal regulations.

Low-Risk Plant Pests

- From field populations or lab cultures derived from field populations of a taxon that is established throughout its entire geographical or ecological range in the continental United States; *or*
- Sufficiently attenuated so that it no longer poses a risk to plants or plant products; *or*
- Commercially available and raised under the regulatory purview of other federal agencies.

BCOs

- Pure culture and exist throughout their geographical range in the continental United States. This exemption would not apply to BCOs moving interstate to or from Hawaii or U.S. territories; *or* If this proposed rule is adopted, APHIS would establish a petition process in the regulations that describes how the public can request APHIS to add and remove low-risk plant pests and/or BCOs from permitting requirements. Before making changes to the list, APHIS would publish a notice in the Federal Register for public comment. The exempted organisms would be listed on the APHIS website and would no longer require a permit.

APHIS is working to publish the proposed rule and anticipates publication by the end of the calendar year. Once published, the proposed rule will be open for a 60-day public comment period. Updates on this initiative will be provided through the APHIS Stakeholder Registry. To sign up for the free, web-based stakeholder registry, go to <https://public.govdelivery.com/accounts/USDAAPHIS/subscriber/new>. Select “Plant Health Information” and “Federal Regulation Notices” to receive updates on this and other federal regulation publications. For more information on the regulation of federal plant pest permitting, please e-mail Pest.permits@aphis.usda.gov or call +1.866.524.5421.



Speaker Exchange between BSPP and CPS

As mentioned by our President Odile Carisse in the last *CPS News*, Dr. Guillaume Bilodeau represented CPS for a speaker exchange at the BSPP Presidential Meeting 2016 - Food Security, Biosecurity, and Trade; the Role of Plant Health, at St. Hugh's College, Oxford on September 12th and 13th, 2016. The BSPP meeting had various sessions and symposiums which focused on food security, biosecurity and trade. The first day started with Food Security featuring a special presentation entitled “Fungi challenge global food security” by Dr. Sarah Gurr (Biosciences), as well as presentations “Food security and plant health” by Dr. Fenton Beed (World Vegetable Centre) and “Protecting global wheat production against worldwide spreading yellow rust pathogen strains and populations” by Dr. Sajid Ali, Pakistan. A student competition was held in the afternoon for the PH Gregory Prize with talks on Biosecurity.

Dr. Bilodeau presented “Biomonitoring of plant pathogens in Canada – technologies and genomic approaches” in the Biosecurity session on September 13th. The presentation was prepared together with his colleagues André Lévesque and Odile Carisse from AAFC, and Barry Saville from Trent University for this speaker exchange representing the Canadian Phytopathological

Society. Other presentations in this session encompassed pathology research work in the UK and outside with titles including “UK Plant Security: Protecting plants and trees using science” and “The role of Plant Health and Seeds Inspectorate in plant biosecurity”. Continuing in the Trade session, Dr. Clive Brasier (Forest Research) presented on Global trade and increasing forest and environmental bio-insecurity, and an update on “Population structure of the ash dieback pathogen *Hymenoscyphus fraxineus* in UK” was given by Dr. Elizabeth Orton (John Innes Centre). Oxford is so much an inspiring place with all its history, and Dr. Bilodeau would like to thank Dr. Julie Flood (BSPP president 2016) for the warm welcome received as exchange speaker representative from the CPS, and the CPS for this exchange opportunity. CPS will in turn welcome an exchange speaker representing BSPP at the 2017 CPS Annual Meeting in Winnipeg.



St. Hugh's College, Oxford



Dr. Guillaume Bilodeau and Dr. Julie Flood at
the BSPP President's Meeting, 2016

Report on 9th International Conference on Integrated Fruit Production



Report Prepared by Dr. Deena Errampalli, Research Scientist, AAFC and President, Plant Canada and CPS member.

Over 150 delegates from 20 countries in five continents attended the International Organisation for Biological Control - West Palaearctic Region Section (IOBC-WPRS) 9th International Conference on Integrated Fruit Production from September 4–8, 2016 in Thessaloniki, Greece, and explored a wide range of recent advances in biological, integrated and organic plant protection against insect pests and diseases in fruit production.

The conference was organized by the subgroup, Integrated Protection of Fruits Crops (IFP) under the patronage of the IOBC-WPRS. The IOBC, an organisation of biological-control workers, promotes environmentally safe methods of pest and disease control. The subgroup, IFP, deals with all aspects of integrated, biological, and organic plant protection in fruit production, with the exception of grapes, citrus and olives.

On the first day, the conference opened with talks on the history and perspectives of the Integrated Protection of Fruit Crops by Dr. Heidrun Vogt, Liaison Officer of IOBC/WG and by Dr. Claudio Ioriatti, Convenor of IFP Subgroup.

An excellent scientific program was organized by Dr. Petros Damos, Chair of the Local Organizing Committee and the International Scientific Committee. The scientific program included invited plenary talks, symposia, lectures, workshops, contributed oral and poster presentations, and exhibitions. There were four plenary keynote

speeches: 1. "Aerosol delivery of pheromones in IFP: A mature technology for plant protection" by Dr. Jay Brunner (USA); 2. "Pest management in New Zealand's apple export industry" by David M. Suckling (New Zealand); 3. "An overview of *Drosophila suzukii* research within the EU funded DROSPA project" by Andrew Cuthbertson (UK); and 4. "Spatial interpolation of weather variables for environmental climate impact studies" by Ole Einar Tveito (Norway). The three symposia were: 1. Semiochemicals in IFP, 2. *Drosophila* Existing Knowledge and Research and 3. *Drosophila* Management and Knowledge Gaps. A joint C-IPM and IOBC workshop on European agenda setting for research to cope with *Drosophila suzukii* was held. The four contributed oral and poster sessions were: 1. Moths; 2. Fruit Flies, 3. Disease of Soft Fruits and 4. Diseases of Pome Fruits.



Dr. Errampalli speaks at IFP Conference

Dr. Errampalli presented a talk describing the research from her AAFC Clusters funded project with Dr. Louise Nelson, University of British Columbia at Okanagan. The title of her talk was "Effect of a Biological agent and GRAS compounds on the control of apple postharvest diseases in long-term storages".

A business meeting was held just before the closing ceremony. The scientific program concluded with a gala dinner and awards presentations to students for best posters and for talks by researchers in entomology and plant pathology. The food, wine, music and traditional dances of the region were outstanding!!! A Good time was had by all!

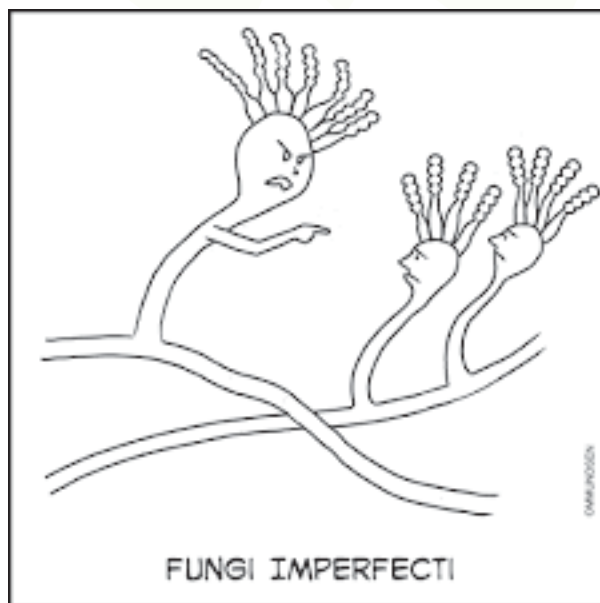
On the final day of the conference, the delegates participated in a field tour of the Imathia district, which is Greece's largest fruit production region, and visited a fruit packing house where they observed processing of peaches and plums that were being packaged for the export and local markets. The drive along the peach, kiwi, cotton,



vegetable and rice production areas was informative. On the way back to Thessaloniki, the delegates had an opportunity to visit the Royal Tombs of King Phillippe II dynasty, father of Alexander the Great, in Virgina, Greece. They also visited the archeological site of Dion, a religious centre of ancient Macedonia in the foothills of Mount Olympus, home of the twelve Greek Olympian Gods, including Demeter, the Greek goddess of harvest, fertility and agriculture (photo).

This conference provided an opportunity for interaction between pathologists and entomologists to find ways to achieve protection from insect pests and diseases in fruit crops. Delegates from academia, research institutes, government, agri-industry and advisory services from across the globe shared

their scientific research, developed new collaborations and strengthened existing collaborations. In particular, it was encouraging to see new young scientists participating alongside experienced colleagues and exchanging knowledge of integrated fruit production, developing new collaborations, and working towards biocontrol innovations.





GRAD STUDENT'S CORNER

FEATURED STUDENT

Chami Amarasinghe (University of Manitoba)

I recently completed my PhD degree in plant science from the University of Manitoba, Winnipeg, Canada under the supervision of Dr. Dilantha Fernando. Prior to my PhD, I received my MSc in plant science at the University of Manitoba in 2011 and my BSc (special) degree in molecular biology and plant biotechnology at the Department of Botany, University of Kelaniya, Sri Lanka in 2007.



I have seven years of experience in plant pathology, molecular biology and fungal genetics. My PhD dissertation research involved understanding the molecular phylogenetic relationships, chemotype diversity and trichothecene biosynthesis-related gene expression patterns in *Fusarium graminearum*, a major fungal pathogen of wheat and other small grain cereals. My research also focused on understanding the risk of modified *Fusarium* mycotoxins in wheat. I have received many scholarships and awards during my PhD degree, including the William B. Malchy Graduate Fellowship, Ian N. Morrison Award, University of Manitoba Graduate Fellowship, Manitoba graduate scholarship and Canadian wheat board fellowship for academic excellence in Faculty of Agricultural and Food Sciences, University of Manitoba. I won the best student oral presentation award three times (2010, 2012, and 2015) at the Canadian Phytopathological Society's Manitoba regional meetings. To date, I have published six peer-reviewed research papers from my PhD and MSc research work. I was an active member of the Plant Science graduate student Association in Department of Plant Science, University of Manitoba and I served as the Department representative for University of Manitoba

Graduate Association for 3 years.

Apart from research, I am passionate about teaching. I worked as a teaching assistant for 3 years in the Department of Plant Science at the University of Manitoba. Also, I received a certification in higher education teaching from Centre for the Advancement of Teaching and Learning, University of Manitoba, Canada in 2016. With my continuous research interest in plant pathology as well as my passion for teaching, I aspire to excel further in academia.

The CPS Featured Student is a new addition to the CPS Newsletter. Student members of CPS are invited through a randomized selection process to share their research plans and career goals to highlight the rising stars of the CPS community.

Canadian
Phytopathological
Society



La Société
Canadienne de
Phytopathologie

The Canadian Phytopathological Society's Best Educational Video Awards 2016-2017

Eligibility

All **graduate students, undergraduate students, research technicians and post-doctoral fellows** conducting their research in plant sciences/plant pathology are eligible for the awards. However, preference may be given to CPS members. All videos will be played in a session during CPS Annual Meeting 2017 and posted on the society's web page.

Rules for making video

1. The video should be focussed on a plant disease and must include the host(s), the pathogen, the symptoms and signs on the host(s).
2. The video should be easy to understand by high school and undergraduate students.
3. The video should be of 3-5 minutes in length.
4. Only one submission per participant will be considered
5. Participant should agree to share his/her video on CPS pages on social networking sites and the website of the society. Additionally, permission should be granted to share the video with any educational institution worldwide.

Deadline : [March 15, 2017.](#)

How to Submit Your Video?

Share in Dropbox or Google Drive with Gurcharn.brar@usask.ca

Award

All entries will be judged by the Awards Committee of the CPS.

[First Prize: \\$900, Second Prize: \\$500, Third Prize: \\$300](#)

The awards will be presented at the CPS Annual Meeting-2017 awards ceremony.



PUBLICATIONS

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.

Bulletin of the Entomological Society of Canada

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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 46 (11) November 2016

In this issue:

- Voting by Councilors on bids for ICPP2023
- ISPP Launches a Global Crop Loss Survey
- Reminder - The Jakob Eriksson Prize for Plant Pathology - Nominations closing November 30
- ICPP 2018 concurrent sessions (invited talks) reminder
- Climate change, agriculture and food security
- Epigenetic regulation of development and pathogenesis in fungal plant pathogens
- Discovery of trees thought to be extinct found in UK
- Asian citrus psyllid mounts immune response against citrus greening disease bacterium
- New single test to detect plant viruses in imported plants

- Laboratory Protocols for Phytophthora Species - new online resource
- Pacific pests and pathogens App
- Open access to Springer book chapters in plant sciences
- Dothistroma needle blight Special Issue of Forest Pathology
- IV International Symposium on Postharvest Pathology: Announcement and abstract submission
- Biocontrol of Fire Blight
- New Vacancy
- Acknowledgements
- Coming events

ISPP Newsletter 46 (12) December 2016

In this issue:

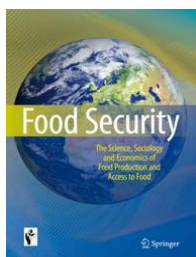
- Seasonal greetings from DownUnder
- Announcement of the venue for the 12th International Congress of Plant Pathology (ICPP2023)
- News from the ISPP Executive Meeting in Boston
- Date extension for nominations for Eriksson Prize
- 1V International Symposium on Postharvest Pathology - Deadline for Abstracts extended to 15 December 2016
- ISPP Global Crop Loss Survey: Good start, more inputs needed
- How a fungus inhibits the immune system of plants
- The 9th Australasian Soilborne Diseases Symposium- Lincoln University, Lincoln, New Zealand
- Deena Errampalli appointed on Global Plant Council
- Announcement of International Conference on Global Crop Losses caused by Diseases, Pests, and Weeds
- IV International Symposium on Postharvest Pathology: Extension for abstract submission
- Springer Plant Stars
- Letter to the Editor of the New York Times on genetically modified crops

- Canadian Phytopathological Society Honorary Member Award for Michael Edward Wisniewski
- Young innovators' AgTalks: "Whassup with agriculture?"
- Assessing leadership needs to improve 21st century plant pathology
- Wolbachia in *Pratylenchus penetrans* - potential for biocontrol?
- Quest to map Africa's soil microbiome begins
- Tomato plants are more resistant against nematodes when colonised by a fungus
- Acknowledgements
- Coming events

ISPP Newsletter 47 (1) January 2017

In this issue:

- ISPP President's Greetings for 2016
- ISPP Global Crop Loss Survey: Success - Yet more responses still needed Latest update on the Survey
- Regional action plan to combat cocoa swollen shoot virus
- Special issue on clubroot and blackleg diseases of brassicas
- Special issue on plant's response to biotic and abiotic stresses and global climate change
- Horticulture in the movies: Interstellar
- Vale Mark Schwinghamer (1951 - 2016)
- Trevor Jon Wicks (1945 - 2016)
- Just add water: New discovery in plant-disease mechanism
- Durable wheat resistance gene that provides resistance to Fusarium head blight
- Trade-offs for viruses in overcoming innate immunities in plants
- Acknowledgements
- Coming events



Submission Deadline for the March 2017 issue of CPS-SCP News

PLEASE NOTE: The submission deadline for the March 2017 issue of CPS - SCP News is **February 17, 2017**. 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.



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