# cps · scp News

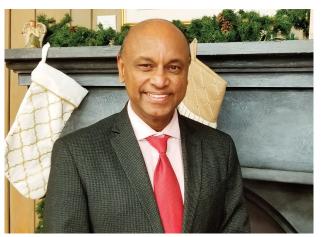
CANADIAN PHYTOPATHOLOGICAL SOCIETY • SOCIETE CANADIENNE DE PHYTOPATHOLOGIE

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## **President's Message**



Dilantha Fernando CPS-SCP President/président

#### Dear CPS Members,

It is my pleasure to write my second President's message for the December issue. There is lots to report in the three months since my last message. Let me begin with the opportunity that was afforded to me as president to meet many CPS members across Canada. As CPS President, I made a trip to each CPS Regional conference where I was invited to attend and bring greetings on behalf of the CPS Board. At each of the meetings I gave

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a seminar on some highlights from the work my lab does with collaborating labs. I was able to meet many CPS members and non-CPS members who do solid plant pathology-related research that contribute to science and the discipline of plant pathology. I was particularly impressed by the graduate student presentations at all these meetings, which were of high quality and with innovative undertakings. I thank the students and their supervisors for the tremendous efforts they endure to make greater discoveries in host-pathogen interactions and help the growers and the agricultural industry in Canada and around the world. I was proud to see our future as a

society with these young scientists taking key positions in the near future to strengthen our discipline. I

"I was proud to see our future as a society with these young scientists taking key positions in the near future to strengthen our discipline."

attended the PPSA-CPS-SK joint meeting in Lethbridge, AB, the CPS-SWON meetings in Simcoe, ON, the CPS Eastern Ontario meetings in Ottawa, ON and the CPS-Manitoba meetings in Winnipeg over the last two months. The CPS was able to support these regional conferences with \$1000 to each regional group.

The CPS is actively participating with societies of the Plant Canada and the local arrangements committee (LAC) for next year's joint meeting under the Plant Canada umbrella. This will be held in Guelph at the University of Guelph from July 7-10, 2019. The theme will be "Communicating Innovation in Plant Science". The Canadian Association of Plant Biotechnology, Canadian Botanical Association, Canadian Phytopathological Society, Canadian Society of Agronomy, Canadian Society for Horticultural Science, Canadian Society of Plant Biologists, and the Canadian Weed Science Society will all be represented at the Plant Canada 2019 meetings. This will allow interactions with members of other societies and will have an opportunity to listen to a slate of renowned speakers. Dan Riskin, evolutionary biologist and former cohost of Daily Planet, will present the keynote. In addition to this, CPS members should look forward to meeting in Guelph to celebrate the 90<sup>th</sup> anniversary of our society and the 100<sup>th</sup> anniversary of the CPDS. We can all be proud of these great milestones. The CPS will have a dinner and awards

> night of their own in addition to the banquet of the Plant Canada meetings. Please mark your calendars

for this exciting dinner and awards reception to be held the night of July 9<sup>th</sup> (Tuesday) 2019. Please stay tuned for more information on this historic celebration. I look forward to a great participation of our CPS members at the Plant Canada meetings with our own celebrations of CPS.

We were saddened to learn the passing of Professor Robin Morrall. Robin was an active CPS member for a very long time. Robin was a former CPS President (1993-1994) and served as Editor of the Canadian Plant Disease Survey for several years. Robin served on the CPS Information Products Marketing Committee until June 2018. Professor Morrall was elected a Fellow of the CPS in 2000. He received the Achievements Plant Disease in Management Award with 4 others in 2004. Robin was inducted into the Saskatchewan Agricultural Hall of Fame in June 2016, either only the first or second plant pathologist to achieve that distinction. Professor Morrall taught plant pathology courses at the University of Saskatchewan, trained graduate students

and retired several years ago. Once we receive further information of the memorial service, we will inform you. A more detailed description of Robin's career will be published in the Canadian Journal of Plant Pathology soon. The CPS Board of Directors joins me in sending their deepest sympathies and condolences to his wife Barbara and his family.

As the year ends, I feel I have been so fortunate to work with great individuals on the CPS Board this year. They bring so much of talent to spearhead the work CPS is undertaking. In addition, the committees, the webmaster and other volunteers have done a splendid job throughout the year to make CPS a stronger professional society. This is that time of year where you should take a good rest from your daily activities and spend quality time with family and friends. I hope you will have the time to do so and enjoy life! On behalf of the CPS Board, I wish each everyone and your loved ones a Merry Christmas, Chag Urim Sameach (Happy Hanukkah), a joyous holiday season and a Happy New Year 2019! I look forward to working with all of you in the New Year! If you plan to travel during the holidays, safe travels!

Dilantha Fernando President, CPS



## Message du président

#### Chers membres de la SCP,

J'ai l'immense plaisir de rédiger mon message pour le numéro de décembre. Il s'est produit une foule de choses au cours des trois derniers mois depuis mon dernier message. D'abord, j'ai eu l'occasion, à titre de président, de visiter plusieurs membres de la SCP de partout au Canada. En tant que tel, j'ai assisté à toutes les conférences régionales où j'avais été invité et j'en ai profité pour transmettre à tous les salutations du conseil de la Société. À chaque réunion, j'ai donné un séminaire sur quelques-uns des points forts des travaux mon laboratoire poursuit aue en collaboration avec d'autres laboratoires. J'ai rencontré plusieurs membres de la SCP, ainsi que plusieurs non-membres, qui font solides de recherches liées à la

phytopathologie et qui contribuent à l'essor de cette science et de cette discipline. À toutes les réunions auxquelles j'ai assisté, j'ai été particulièrement impressionné par la grande qualité et l'aspect innovateur des présentations données par les étudiants diplômés. Je les remercie, ainsi que leurs directeurs, des efforts immenses qu'ils consacrent à leurs recherches sur les interactions hôtes-agents pathogènes et aident, par le fait même, les producteurs ainsi que le secteur agricole canadien et mondial. J'étais fier d'entrevoir l'avenir de notre société avec ces jeunes scientifiques assumant bientôt des positions clés pour renforcer notre discipline. Au cours des deux derniers mois, j'ai assisté à la réunion conjointe SAP-SCP-SK à Lethbridge en Alberta, à la SCP-SOON à Simcoe en Ontario, à la SCP-Est de l'Ontario et à la

SCP-Manitoba à Winnipeg. La Société a pu soutenir ces conférences en donnant 1 000 \$ à chaque groupe régional.

La SCP participe activement avec les autres sociétés affiliées à Plant Canada, ainsi

qu'avec le comité local organisateur, à l'organisation de la réunion annuelle conjointe qui se tiendra sous

*"J'étais fier d'entrevoir l'avenir de notre société avec ces jeunes scientifiques assumant bientôt des positions clés pour renforcer notre discipline."* 

l'égide de Plant Canada à l'Université de Guelph du 7 au 10 juillet 2019. Le thème sera « Diffuser les innovations en phytologie ». L'Association canadienne de biotechnologie des plantes, l'Association botanique du Canada. la Société canadienne de phytopathologie, la Société canadienne d'agronomie, la Société canadienne de science horticole, la Société canadienne de biologie végétale et la Société canadienne de malherbologie seront toutes représentées à la réunion de 2019. Cela permettra d'interagir avec des membres des autres sociétés et sera l'occasion d'entendre une multitude de conférenciers de renom. Dan Riskin, biologiste évolutionniste et ex-coanimateur de Daily Planet, prononcera l'allocution principale. En outre, les membres de la SCP devraient avoir hâte de se retrouver à Guelph pour célébrer le 90<sup>e</sup> anniversaire de leur société et le 100<sup>e</sup> de l'Inventaire des maladies des plantes au Canada. Nous pouvons tous être fiers de ces étapes marquantes. La SCP tiendra son propre souper et sa soirée de remise des prix en plus d'assister au banquet de la réunion de Plant Canada. Je vous prie de souligner en rouge, dans votre agenda, la date du 9 juillet 2019 (mardi) pour que vous assistiez à ce splendide souper et à cette excitante remise

des prix. Soyez à l'affût pour obtenir de plus amples renseignements sur cette célébration historique. Je m'attends à ce que les membres de la SCP participent en grand nombre à la réunion de Plant Canada ainsi qu'à nos propres célébrations.

> Nous sommes attristés par le décès du professeur Robin Morrall. Robin a été pendant longtemps un

membre actif de la SCP. Il en a été président (1993-1994) et a servi à titre de rédacteur pour l'Inventaire des maladies des plantes au Canada. Il a travaillé au comité sur les produits d'information jusqu'en juin 2018. Le professeur Morrall a été élu membre honoraire de la SCP en 2000. Il a reçu, en 2004, de concert avec quatre autres, le prix Réalisations en gestion de maladies des végétaux. Robin a été intronisé au Temple de la renommée agricole de la Saskatchewan en juin 2016, le premier ou le deuxième phytopathologiste à recevoir cet honneur. Professeur Morrall a enseigné la phytopathologie à l'Université de la Saskatchewan, a formé des étudiants diplômés et a pris sa retraite il y a quelques années à peine. Nous vous tiendrons informés dès que nous en saurons plus sur le service commémoratif. Un compte rendu détaillé de la carrière de Robin sera bientôt publié dans la Revue canadienne de phytopathologie. Le conseil de la Société se joint à moi pour transmettre nos plus sincères condoléances à sa femme Barbara et à sa famille.

En cette fin d'année, je ne peux faire autrement que me considérer privilégié d'avoir pu travailler avec des gens merveilleux sur le conseil de la SCP. Ils investissent tous leurs talents pour encadrer les travaux que la Société a entrepris. De plus, les comités, le webmestre et les autres bénévoles on fait un travail fantastique tout au long de l'année pour faire de la SCP une société professionnelle encore plus forte. Nous en sommes arrivés à cette période de l'année où vous devriez prendre un repos bien mérité et passer du temps de qualité avec la famille et les amis. J'espère que vous en aurez le temps et que vous profiterez de la vie! Au nom du conseil de la SCP, je vous souhaite à tous, ainsi qu'aux gens qui vous sont chers, joyeux Noël, Chag Urim Sameach (joyeuse Hannoucah), de très joyeuses fêtes et une Bonne Année 2019! J'ai hâte de travailler de nouveau avec vous en 2019! Si vous prévoyez de voyager durant le congé des fêtes, soyez prudents!

Dilantha Fernando Président, SCP



# Meetings

## **CPS-BC** Regional Meeting

The CPS British Columbia Regional Meeting was held from October 25 to 26, 2018 at the Agassiz Research and Development Centre, Agriculture and Agri-Food Canada. A total of 30 people from federal research centres, universities, provincial government, and private industries participated in the meeting. Sixteen oral presentations and five poster presentations were delivered in the meeting. The keynote speaker was Dr. Byron Gates, Professor and Tier II Canada Research Chair in Surface Chemistry at Simon Fraser University. The title of his presentation was "**Nanomaterials in Our Environment: Challenges and Opportunities.**" Dr. Gates highlighted the scope of nanomaterials for their potential use in biological fields including agriculture as well as described the challenges associated with it. During the meeting, Dr. Gayle Jesperson, Provincial Plant Pathologist from the BC Ministry of Agriculture, was honored for her many years of contribution in the field of plant pathology as well as for the Canadian Phytopathological Society.

There was excellent graduate student participation in the meeting. There were seven oral presentations from graduate students. The winners of the student oral presentation award were: 1<sup>st</sup> Place: **Scott Cameron** from Simon Fraser University for his presentation entitled "Management of powdery mildew caused by *Golovinomyces cichoracearum* on *Cannabis sativa";* 2<sup>nd</sup> Place: Li Ni from Simon Fraser University for her presentation entitled "Efficacy of ActiveFlower, a foliar fertilizer containing boron, on the development of Sclerotinia stem rot (*Sclerotinia sclerotiorum*) on canola (*Brassica napus* L.)." Presentations were followed by a healthy dinner and awards ceremony. A business meeting was held on October 26<sup>th</sup> and was followed by a tour of the greenhouse facility and Plant Pathology laboratory.

Respectfully Submitted,

Rishi Burlakoti, Vippen Joshi, Siva Sabaratnam, and Mike Cruickshank, Organization committee, CPS- BC Regional Meeting



Group picture of the 2018 CPS-BC meeting attendees



Keynote Speaker Dr. Byron Gates from Simon Fraser University delivering his presentation



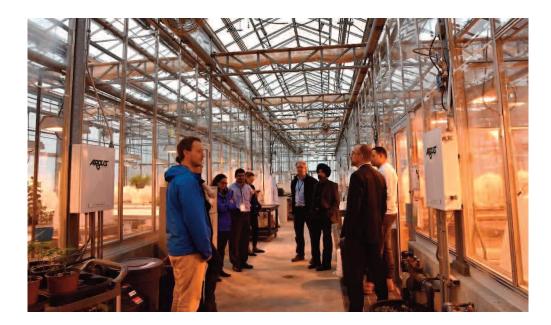
Student oral presentation winner (Ist Place) Cameron Scott. From Left to right: Rishi Burlakoti (Host), Vippen Joshi (CPS-BC Region representative), Cameron Scott, and Mike Cruickshank (CPS-BC Region Treasurer).

Student oral presentation winner (2nd Place) Li Ni. From Left to right: Vippen Joshi (CPS-BC Region representative), Li Ni, and Mike Cruickshank (CPS-BC Region Treasurer).





Appreciation Token to Dr. Gayle Jesperson. From Left to right: Rishi Burlakoti (Host), Vippen Joshi (CPS-BC Regional Representative) and Gayle Jesperson.



Post conference tour at the greenhouse facility of Agassiz Research and Development Centre, AAFC, BC



# **CPS-Eastern Ontario Regional Meeting**

The Canadian Phytopathological Society's Eastern Ontario Regional meeting was held on November 30, 2018, at the auditorium of the Ottawa Laboratory Fallowfield, Canadian Food Inspection Agency (CFIA), 3851 Fallowfield Rd, Ottawa, ON. There were over 75 participants including research scientists, professors, professionals, technicians, and students from Agriculture & Agri-Food Canada (AAFC), Canadian Food Inspection Agency (CFIA), Carleton University, Trent University, University of Ottawa, Université Laval, Algonquin College, and companies.

The meeting started with welcome remarks delivered by Dr. Nancy Rheault, (Executive Director, Ontario Laboratory Network, CFIA) followed by a special session entitled "Connecting the laboratory research with the productivity of growers, industries and regulatory agencies." Our two guest speakers for this session were Dilantha Fernando from University of Manitoba, who delivered a talk entitled "Cutting-edge technologies and farm-driven research helps growers mitigate field crop diseases with new solutions," and Stephan Briere from the CFIA, whose talk was entitled "A day in the life of a CFIA plant pathology regulatory laboratory." Six contributed talks were given by Myron Smith (Carleton University), Emilee Storfie (Trent University), Émilie Tremblay (CFIA, U. Laval), Tom Witte (Carleton University), Wen Chen (AAFC), and Miao Liu (AAFC), focusing on the topics of mycology, fungal genomics, molecular detection, population genetics, and metagenomics. In total, 8 posters were presented, including one by **Kelsy Davis** (Algonquin College; research supervised by Dr. Guillaume Bilodeau, CFIA) which won the student poster competition and **Tom Witte** (Carleton University; research supervised by Dr. Myron Smith, Carleton University) won the student oral presentation competition.

The organizing committee would like to thank the sponsors of the this meeting for their generous support: CPS for supporting regional meetings (\$1,000); SeCan (\$300) supported the student awards; ThermoFisher (\$300) and Syngenta (\$150) supported the coffee breaks; and the CFIA for providing facility support.

Registration & Program: Guillaume Bilodeau, Miao Liu Advisor: Kenneth Conn Judges for student poster competition: Marie-Claude Gagnon, Hai Nguyen, Linda Harris Lunch and break logistics: Émilie Tremblay Moderator: Guillaume Bilodeau Room Set-up: Mike Kelly, Guillaume Bilodeau Photography: Emily Giroux Name tags: Kitty Cheung and Quinn Eggertson Thanks to all who contributed and helped.



Welcome remarks delivered by Dr. Nancy Rheault, (Executive Director, Ontario Laboratory Network, CFIA)



Dr. Guillaume Bilodeau congratulating Kelsy Davis, the winner of student poster competition



Dr. Guillaume Bilodeau congratulating Tom Witte, the winner of student oral competition



Group picture of the attendees of the meeting



## **2018 International Clubroot Workshop**

The 2018 International Clubroot Workshop was held in Edmonton, Alberta, on August 7-9, 2018, attracting more than 230 delegates representing at least 15 countries and 4 continents. The Workshop included scientific and extension components as well as field tours. Speakers included not only Canadian scientists and extension personnel, but also various preeminent international researchers working on clubroot. Dr. Curtis Rempel of the Canola Council of Canada provided welcoming remarks and Dr. E. Diederichsen (Freie Universität Berlin) gave the opening address.



Four graduate students (left to right: Nicole Fox, Keisha Hollman, Brittany Hennig and Andrea Botero-Ramírez) present their research at the CDCN clubroot field nurseries.

The workshop opened with a session on Genetics and Breeding, led by Dr. M. Manzanares-Dauleux (Université de Rennes, France) who presented a paper on the influence of nitrogen constraints on resistance to clubroot. Drs. Z. Piao and C. Zhang (Shenyang Agricultural University and Huazhong Agricultural University, China) presented information on resistance genes in Brassica rapa and differentiation of P. brassicae pathotypes, followed by a presentation by Dr. F. Yu (AAFC, Saskatoon) on the development of spring B. napus lines with single resistance genes. Dr. E. Diederichsen presented a paper on characterization of resistance in *Raphanus* and another on the transfer of resistance by hybridization between B. napus and Raphanus. Dr. C. Gan (Hubei Academy of Agricultural Sciences) followed with information on identification of clubroot resistance QTLs in Raphanus. Dr. R. Fredua-Agyeman (Alberta Agriculture and Forestry (AAF), Edmonton) presented results from the screening of Brassica accessions for resistance to 'old' and 'new' pathotypes of P. brassicae. Dr. K. Hatakeyama (Iwate University, Japan) gave a presentation on the molecular genetics of clubroot resistance in Chinese cabbage, followed by a presentation by Dr. S. Matsumoto (NARO Division of Vegetable Breeding, Japan) on resistance gene pyramiding to create a highly resistant cultivar of Chinese cabbage. Dr. A. Sedaghatkish (University of Guelph) presented a paper on gene similarity between *P. brassicae* collections in Canada, while Dr. L. Galindo-González (University of Alberta) described transcriptomic changes associated with the interaction of *B. napus* and particular pathotypes of *P. brassicae*. Dr. Y.P. Lim (Chungnam National University, Korea) presented a paper on genetic analysis of clubroot resistance using multiple populations of *B. rapa*.

A session on Host-Pathogen Interactions was also held in which Dr. J. Ludwig-Mueller (Technische Universitat Dresden, Germany) presented a paper on the manipulation of plant hormone metabolism by *P. brassicae* and the potential to exploit some of these processes for clubroot management. Dr. G. Peng (AAFC, Saskatoon) presented information on the

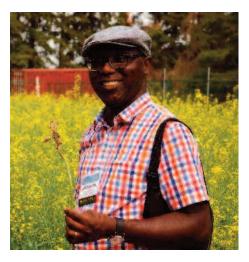
effects and durability of incomplete resistance against a new *P. brassicae* pathotype. Z. Gao (Huazhong Agricultural University) presented studies on the role of proto-oncogenes in plasmodial growth in host cells and on protein secretion during the infection process. Dr. D. Weeraddana (University of Alberta) spoke on the interactions between Bertha armyworm and *P. brassicae* in resistant and susceptible canola. A poster session was also held in conjunction with a reception, giving delegates a chance to chat and review the posters.

The second day of the Workshop was focused on Epidemiology and Disease Management. Dr. Stephen Strelkov (University of Alberta) provided an overview of the changing face of clubroot in Canada, followed by a discussion by Dr. S.F. Hwang (AAF, Edmonton) on the management of clubroot of canola in Alberta. Dr. N. Zamani-Noor (Julius Kühn-Institut, Germany) presented a paper on pathogenic variation among *P. brassicae* isolates from oilseed rape in Europe. Andrea Botero-Ramírez (University of Alberta, formerly Universidad Nacional de Colombia) described the status of clubroot in Colombia, in some of the first information presented internationally regarding the status of the disease in South America. Dr. F. Burnett (SRUC, Scotland) presented information on the impact and management of clubroot in the UK, while Dr. M. Jedryczka (Polish Academy of Sciences) presented a paper on the occurrence and pathogenic variation of *P. brassicae* in Poland. Dr. K. Wakayama presented information on detection of *P. brassicae* spores using the LAMP method in Japan, and Dr. Y. Liang (Shenyang Agricultural University, China) presented information on molecular detection of P. brassicae in Chinese soils. Dr. V. Chapara (North Dakota State University, USA) presented an evaluation of various soil amendments for the management of clubroot on canola under field conditions.

Another important highlight of the Workshop was the field tours held at the Crop Diversification Centre North (CDCN), AAF, in the afternoon of the second day. Workshop participants toured two unique clubroot nurseries (pathotypes 3 and 5X) established and maintained on land







Presentations at CDC North with Victor Manolii, George Turnbull and Qixing Zhou (above, left); Delegates tour the nurseries (above, right); Rudolph Fredua-Agyeman (left) kindly provided by Alberta Agriculture and Forestry to facilitate research into the development of practical clubroot management solutions. These bio-secure nurseries are a valuable resource for researchers and industry not just in Alberta but throughout Canada. Graduate students from the University of Alberta explained their research trials to the Workshop delegates as they toured the nurseries. Nicole Fox gave a presentation on the liming of soil as a clubroot management strategy, followed by Keisha Hollman who spoke on the residual effects of liming. Brittany Hennig showed the work she is doing to study interactions between weeds, resistant canola and liming on *P. brassicae* populations. Andrea Botero-Ramírez presented her project aimed at establishing a yield loss model for clubroot of canola. In addition to the student presentations, Dr. R. Fredua-Agyeman (AAF) presented work on variety trials for clubroot resistance and G. Turnbull (AAF) gave a brief overview of the clubroot nurseries. Drs. V. Manolii (University of Alberta), S.F. Hwang and Q. Zhou (AAF) provided tours of the greenhouse and laboratory clubroot research programs at CDC-N.

The second day of the Workshop concluded with a barbeque at the beautiful University of Alberta Botanic Garden near Devon, where Dr. Stan Blade (Dean of the Faculty of Agricultural, Life and Environmental Sciences, University of Alberta) welcomed the delegates.



Dr. Hwang (in red) with Chinese delegates



Dr. Strelkov holding some clubbed canola roots.

The third day of the workshop focused on Agronomy. Dr. M.R. McDonald (University of Guelph) and Dr. B. Gossen (AAFC, Saskatoon) presented an overview of the challenges to effective management of clubroot. Thomas Ernst (University of Alberta) presented information on the influence of clubroot-resistant canola on resting spore dynamics in the soil, while N. Zamani-Noor spoke on the suppression of *P. brassicae* by calcium cyanamide. A. Nguyen (Graymont) presented an overview of lime and limestone production and N. Fox provided an assessment of hydrated lime for management of the disease on canola. Dr. B. Gossen also presented a recipe to manage small patches of infestation. The final presentation was by Dr. A.C. Wallenhammar (Rural Economy and Agricultural Society|HS Konsult AB, Sweden), who presented a paper on integrated management of clubroot for sustainable oilseed rape production. Dr. Curtis Rempel provided closing remarks. A panel discussion on clubroot management issues capped off the morning. In the afternoon, Dan Orchard (Canola Council)

hosted a farm tour to give international guests the opportunity to view a Canadian farm operation.

The 2018 International Clubroot Workshop was an important event that will contribute to good science and progressive initiatives for the understanding and management of this disease. It was about science-based solutions to mitigate the risk of clubroot and to ensure that information and new technology can be applied to this problem. The support provided by the Canola Council of Canada and its staff in organizing the Workshop was greatly appreciated.

The proceedings of the 2018 International Clubroot Workshop can be found at www.clubroot.ca.

Submitted by Sheau-Fang Hwang and Stephen Strelkov



Dr. Celsa García Domínguez of Colombia (left) with Dr. Hwang



Dr. Jedryczka from Poland (left), Dr. Hwang from Canada (centre), and Dr. Diederichsen from Germany (right)



Drs. Strelkov (second from left), Hwang (centre) and Fredua-Agyeman(right) accompanied by Drs. H. Zhang (left) and R.F. Sun (second from right) from the Chinese Academy of Agriculture Sciences, China

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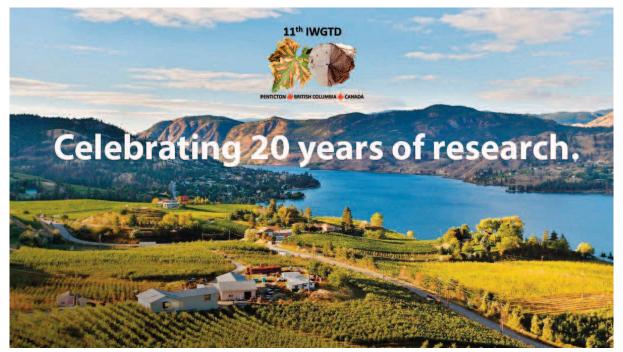


Dr. Strelkov (left) with Dr. Fiona Burnett from Scotland



## Announcements

## **11th International Workshop on Grapevine Trunk Diseases**



July 7 – 12, 2019 – Penticton, British Columbia, Canada

We are proud to host the International Workshop on Grapevine Trunk Diseases for the first time in Canada and would like to welcome you all; whether you are a "new comer" to these workshops, or you have attended several in the past. Grapevine trunk diseases (GTD) are a complex known to be caused by a wide range of taxonomically unrelated fungi. Diseases within this complex are responsible for a broad diversity of vascular and foliar symptoms, which result in an overall decline and eventual death of the grapevine. Though GTD are thought to be as old as vine cultivation, it has been relatively recently when their significance and impact on vine health have been fully recognized. Today, GTD are considered one of the

main biotic factors reducing both yield and lifespan of vineyards, which translates into substantial untenable economic losses to the grape and wine industry worldwide. The emerging of these diseases in the early 1990s, and the urgent need by growers and industry of effective management strategies, focused the attention of scientists around the world. As a result, a meeting in California took place in July of 1998 in which participants and founding members agreed upon and developed the structure and objectives of the International Council on Grapevine Trunk Diseases (ICGTD). Since then, the primary goal of the ICGTD has been to promote science, and encourage collaborations and exchange of information among scientists and industry partners, on issues pertaining to GTD.

The ICGTD is a non-profit organization where all activities are organized and carried out on a volunteer basis. It has been welcomed as the Subject Matter Committee on GTD by the International Society for Plant Pathology (ISPP). Every two years, the ICGTD organizes the International Workshop on Grapevine Trunk Diseases (IWGTD), where scientists and industry members from around the world present, share and discuss the latest research findings on different areas concerning GTD.

Historical list of IWGTD venues: 1999 Siena, Italy 2001 Lisbon, Portugal 2003 Christchurch, New Zealand 2005 Stellenbosch, South Africa 2006 Davis, California, USA 2008 Florence, Italy 2010 SantaCruz, Chile 2012 Valencia, Spain 2014 Adelaide, Australia 2017 Reims, France 2019 Penticton, British Columbia, Canada

For more information on the ICGTD visit: https://icgtd.ucr.edu/

The conference website may be found at http://iwgtd2019.ca/.



## **Call for Nominations**

## Nominations for CPS Board and Committees 2019-2020

As you know, the CPS is a volunteer society run by members from all across the country, members who are dedicated to make the CPS a dynamic society align to the members' scientific interests. Each year we recruit new (or returning) volunteers to keep our society lively 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 meet colleagues, establish your network, and contribute to the development of science. Additionally, if you feel that you have ideas or initiatives with any of the Committees listed in the Membership Directory or Operations, don't hesitate to contact the COMMITTEE Chair. Your participation will be welcomed! By becoming an active member of the CPS, you will meet with great pathologists!

The Nominating Committee is seeking nominations to the CPS Board of Directors and Standing and Subject Matter Committees for 2019 -20 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 and Subject Matter Committees, vacancies are available for the following:

- CPS Resolutions Committee
- CPS Website
- CPS Nominations Committee
- CPS Awards Committee
- CPS Public Relations Committee
- CPS International Cooperation Committee

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

The committee membership for this year may be found in your membership directory. 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 denisandregaudet@gmail.com by **February 15, 2019.** 

Sincerely, Denis Gaudet, Chair of the CPS Nominating Committee

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# **CPS Awards 2019**

CPS Members: Nominate a deserving colleague for a CPS Award!

Students: Apply for travel to the Plant Canada 2019 conference, CPS Scholarship, or video award!

The Canadian Phytopathological Society is proud to recognize achievements of its members. Please consider nominating a colleague for one of the CPS Awards listed below:

- Honorary Member
- Fellow of CPS
- Outstanding Research
- Outstanding Young Scientist (must be under 45 years old)
- CPS Education Award
- Achievements in Plant Disease Management

Full descriptions of each category are posted on the CPS web site at https://phytopath.ca/about-cps/cps-awards/. All materials should be combined in a single file for each application.

We also encourage graduate students to apply for CPS scholarships, travel to the 2019 conference, and video awards (see URL link above). There are three awards for each category as follows:

## Graduate Student Travel Awards (\$1,000 each)

The application must include:

The abstract of the oral presentation/poster (published in Can J. Plant Pathology);

A one page statement written by the student explaining the significance of the research and its scientific, economic, and/or societal implications;

A letter of support from the senior supervisor outlining the student's research, academic abilities, and other evidence of scholarship;

A brief (2 page maximum) resume of the student's background and experience; and Academic transcripts of undergraduate and graduate training (original copy if available).

## Graduate Student Scholarships (\$1500 each)

This application must include:

- Two letters of support from an academic/work supervisor;
- A personal statement (1 page) of your motivation to pursue graduate work in plant pathology, future goals, and activities relating to leadership and research;
- An essay (3 pages maximum) on a topic in plant pathology or an original research proposal that demonstrates your ability to communicate and organize;
- Copies of academic transcripts of undergraduate and graduate (if available) education
- Evidence of registration in a graduate program (letter from supervisor, tuition receipt)

#### Student video awards (1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> places).

Each video must be on a plant pathogen and include the signs, symptoms, pathogen name, and host range. The disease cycle, economic impact, and management and control are other key factors to include. The maximum time of each video is 5 minutes, and will be judged on clarity, pace, graphics, flow, and organization.

## The deadline for submission of all awards is March 1, 2019.

Send nominations and applications to CPS Awards Committee Chair Tom Fetch at Tom.Fetch@canada.ca



## Awards

## **Ron Howard Inducted into the Alberta Agriculture Hall of Fame**

Dr. Ron Howard of Brooks, Alberta was inducted into the Alberta Agriculture Hall of Fame on October 26, 2018 in a ceremony at Leduc, AB. The Hall of Fame was created to recognize individuals who have made significant contributions to province's agriculture and food industry and to the development and sustainability of rural life in Alberta. More than 130 men and women have been named to the Hall of Fame since its inception in 1951.

Ron was born and raised near Saskatoon where he graduated from the University of Saskatchewan with a Bachelor of Science degree in Agriculture in 1969 and a Master of Science degree in Plant Pathology in 1971. He subsequently obtained a Ph.D. in Plant Pathology from the University of Wisconsin, Madison in 1975.

Ron then started his career with Alberta Agriculture and spent the next 39 years working with over 50 different types of crops and plant species as a research, extension and diagnostic plant pathologist. He also held various management roles during his career, including being the Director at the Crop Diversification Centre South, Brooks from 1999 to 2002. Ron served as President of the Canadian Phytopathological Society in 1997-98 and was named a Fellow of the Society in 2005.



Dr. Ron Howard (left) with Oneil Carlier (right), Alberta Minister for Agriculture and Forestry

His work has ranged from plant health diagnostics to screening crop varieties for disease resistance, evaluating pest control products for efficacy, identifying and monitoring diseases of major and minor crops, and developing management strategies that continue to help producers to protect their crops from yield and quality losses to this day. Perhaps Ron's greatest impact has been in the training of and influence on generations of farmers, agronomists, students and professionals. Through his willingness and eagerness to share his vast knowledge, he has prepared and delivered over a thousand articles, presentations, and scientific publications over his career, including editing and contributing to the landmark resource book, *Diseases and Pests of Vegetable Crops in Canada*. He served as an Adjunct Professor in the Department of Agricultural, Food and Nutritional Science at the University of Alberta, Edmonton, for over 20 years. Ron was also integral in the expansion and development of the research facilities at the Crop Diversification Centre South at Brooks, including design and construction of the state-of-the-art, 60,000 square foot Greenhouse Research and Production Complex, which began operating in 2011.

In his acceptance remarks, Ron acknowledged the crucial support provided by his family, friends, colleagues and employer, Alberta Agriculture, during his career. He also thanked Mike Harding, Denis Gaudet and Blair Roth, who worked with Rob Spencer in preparing the nomination documents for the Hall of Fame award.



## Young Scientists' Corner FEATURED STUDENT: Joey Wan

(University of Manitoba)



Joey Wan

My interest in plant pathology started during my undergraduate studies at the University of Manitoba. There, I completed my BSc (Hons.) in cell and molecular biology with a focus on plant systems. In the last couple years of my undergraduate degree, I became more interested in the complexity of plant signalling and how defense responses are coordinated within plant tissues. This was also the time that I met my current supervisor Dr. Mark Belmonte in the Department of Biological Sciences. Under his guidance, I conducted my undergraduate thesis research where I analyzed the transcriptomic response of canola following exposure to the biocontrol agent *Pseudomonas chlororaphis* strain PA23, which was discovered by our very own Dr. Dilantha Fernando.

I learned challenging molecular biology techniques such as cDNA library synthesis and methods for big data analysis. These skills have given me opportunities to participate in NSERC Engage grants with industry partners such as Bayer Crop Sciences, ATP Nutrition, and Stoller Canada. These projects were incredibly enlightening and showed me that discoveries made in the lab are directly translatable for use in the agricultural sector. Currently, I am in the second year of my MSc program which focuses on population shifts in the soybean rhizosphere following a *P. chlororaphis* PA23 seed treatment. My long-term goals are to take the technical skills that I have attained during my undergraduate and graduate work into the agricultural sector as a researcher or consultant.



# **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 48 (10) October 2018

In this issue:

- Do you know our ISPP logo? Fill out the ISPP Logo Survey!
- Successful and insightful, ICPP2018 makes history as ISPP turns 50
- 6th International Oomycetes Workshop: Satellite meeting at ICPP2018, Boston
- ICPP2023 Lyon, France Save the date!
- XXIV National Congress of the Italian Phytopathological Society in Ancona, Italy,
   September 2018

- How plant microbes could feed the world and save endangered species
- What climate change means for fungi and food safety
- Wheat blast: from its origins in South America to its emergence as a global threat
- Leafroll-associated virus 3 cloned to help stop grape disease
- How do you disarm Phytophthora?
- Current vacancies
- Acknowledgements
- Coming Events

## **ISPP Newsletter 48 (11) November 2018** In this issue:

- Reminder about the ISPP Logo Survey
- Mathews Paret elected as Treasurer on the ISPP Executive Committee
- Why rational argument fails the genetic modification (GM) debate
- V International Symposium on Postharvest Pathology, Liège Belgium, 19-24 May 2019
- 11th International Workshop on Grapevine Trunk Diseases, Penticton Canada, 7-12 July 2019
- International Workshop on the Fruit
  Microbiome: A New Frontier,
  Shepherdstown USA, 3-6 September 2019

- Publications from the Council for Agricultural
  Science and Technology
- Learn how to diagnose pests and diseases in the field with PestSmart
- Detection of Plant-Pathogenic Bacteria in Seed and Other Planting Material – new book
- Breakthrough in search for resistant banana varieties to the lethal bacterial banana wilt disease
- Genetically modified cotton could be human food source
- Complex factors can drive the emergence and evolution of plant pathogens
- Current vacancies
- Acknowledgements
- Coming Events

#### **ISPP Newsletter 48 (12) December 2018** In this issue:

- Season's greetings
- Reminder about the ISPP Logo Survey
- Call from ISPP: A code of ethics for plant health emergencies
- Send new names for next edition of List of
  New Names of Plant Pathogenic Bacteria
- Food Security welcomes two Senior Editors
- New edible cricket species discovered in
  Kenya

- Report on ASPP Workshop on invasive pests, 4-5 November 2018, Alexandria, Egypt
- Data sharing and other open science practices: An interview with Sophien Kamoun
- Report on IX International Symposium on Soil and Substrate Disinfestation, September 2018, Crete, Greece
- Forest health defenders: empowering citizens to protect forests through research
- contributions session at IUFRO XXV World Congress
- RNA interference mechanisms and applications in plant pathology
- Science Breakthroughs to Advance Food and Agricultural Research by 2030 - New report from the US National Academy of Sciences
- One step closer to control soybean cyst nematode
- Plant-Pathogenic Acidovorax Species new book
- Join PestNet's new system
- The search for what is killing American beech trees
- Current vacancies
- Acknowledgements
- Coming Events

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## **Entomological Society of Canada**



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

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## Submission Deadline for the March 2019 Issue of CPS-SCP News

**PLEASE NOTE:** The submission deadline for the March 2019 issue of CPS - SCP News is February 22, 2019. 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.





