

Saturday, June 19:

18:00 to 21:00 Financial Advisory Committee Meeting Mary Murrin Lounge
(Gage Towers lobby)

Sunday, June 20:

8:00 to 5:00 CPS Outgoing Executive Board Meeting Mary Murrin Lounge

14:00 to 19:30 Registration Fireplace Lounge
(Gage Towers lobby)

19:00 to 21:00 Opening Reception Sage Bistro

Monday, June 21:

8:00 to 14:00 **Registration** Forest Sciences Centre Atrium

8:30 to 9:00 **Welcome and Opening Addresses** FSC 1005

8:30 Local arrangements committee - housekeeping

8:35 To be determined

8:40 CPS President

8:45 APS President

8:50 **Symposium 1:**
Emerging stresses on forests and agro-ecosystems
resulting from climate change
Chair: Tom Forge FSC 1005

8:50 **Introduction:** *Tom Forge, Agriculture & Agri-Food Canada*

9:00 **Climate change: Direct and indirect impacts on forests.** *Lori Daniels, Geography, University of British Columbia, Vancouver.*

9:40 **Building resilience in agricultural systems to climate change and variability.** *Denise Neilsen, Alex Cannon, Bill Taylor, Scott Smith, Ted Van der Gulik and Tom Forge. Agriculture and Agri-Food Canada; Environment Canada; BC Ministry of Agriculture and Lands.*

10:20 to 10:40 **Break**

10:40 **Are the forests of British Columbia providing early indications of the influence of climate change on forest health, and if so could we have predicted them?** *Alex Woods*, BC Forest Service, Smithers, BC.

11:20 **Climate change and plant disease: Will new technological advances keep pace with the new challenges?** *Karen Garrett*, Kansas State University, Manhattan, Kansas, USA.

12:00 to 13:30 **Lunch** **Totem Cafeteria**
APS-PD Business meeting **Totem Cafeteria 'annex'**

13:30 to 16:15 **Contributed Paper Session 1 (Student Competition):
Ecology, Epidemiology and Management**
Chair: Jim Menzies **FSC 1005**

13:30 (CPS) **Wax and pigment for turfgrass disease control.** *B. Nash, T. Hsiang and P.H. Goodwin.*

13:45 (CPS) **Identification, tissue susceptibility and chemical control of volutella blight of boxwood in Ontario.** *F. Shi and T. Hsiang.*

14:00 (CPS) **Study of silicon transport to improve plant disease resistance.** *J. Montpetit, J. Vivancos, W. Remus-Borel, C. Gregoire, J.G. Menzies, F. Belzile and R.R. Belanger.*

14:15 (CPS) **Efficacy of fungicides on 3ADON and 15ADON *Fusarium graminearum* isolates infecting spring wheat.** *C. Amarasinghe, L. Tamburic-Ilincic, A. Brule-Babel and W.G. Dilantha Fernando.*

14:30 (CPS) **Comparison of methods to assess the sensitivity of *Ascochyta rabiei* to strobilurin fungicides.** *N.H. Thaher, B.D. Gossen and M.R. McDonald.*

14:45 **Break**

15:00 (CPS) **Use of small crab-shell powder and fermented mushroom to control Purple spot (*Alternaria porii*) and Fusarium wilt (*Fusarium oxysporum*) in onion (*Allium cepa*).** *Nuswandari Eti, Nelly Sapta Yanti, Dedi Purnomo and Suryo Wiyono.*

15:15 (APS) **Optimum timing for spraying out greenbridge with glyphosate to control rhizoctonia root rot in barley.** *E.M. Babiker.*

15:30 (APS) **Relationship among kernel drydown rates, environmental factors and resistance to gibberella ear rot, fusarium kernel rot and common smut of corn.** *K. Xiang, L. M. Reid and X. Zhu.*

15:45 (APS) **Cross-pathogenicity of *Verticillium dahliae* isolates from skullcap and peppermint.** *J. K. Dung, L. J. du Toit, E. W. Gatch and D. A. Johnson.*

16:00 (APS) **Development of a quantitative real-time PCR assay for assessment of *Phytophthora rubi* in soil.** *J.A. Gigot and T. Walters.*

13:30 to 17:00 **Poster Session** **FSC 1002 & Atrium**
(9 student posters + 45 regular posters)

Evening **Student Social** **Location to be determined**

Non-students: **On your own for dinner and exploration**

Tuesday, June 22:

- 8:30-12:00 **Symposium 2:**
Contributions of Genomics to Plant Pathology
Chair: Richard Hamelin **FSC 1005**
- 8:30 **Introduction:** *Richard C. Hamelin*, University of British Columbia
- 8:35 **The Mycosphaerella Genomics Consortium: Understanding pathogenicity and adaptation.** *S.B. Goodwin, I. Stergiopoulos, P.J.G.M. De Wit and G.H.J. Kema.* USDA-Agricultural Research Service, Purdue University, West Lafayette, Indiana.
- 9:05 **Contributions of Genomics to Forest Pathology.** *Richard C. Hamelin.* NRCan-CFS & Department of Forest Sciences, University of British Columbia, Vancouver.
- 9:35 **Functional genomics approaches in Cereal Rusts.** *Guus Bakkeren, Xiao Song, Vinay Panwar, Rob Linning and Barry Saville.* AAFC-Pacific Agri-Food Research Center, Summerland, British Columbia.
- 10:05 **Break**
- 10:30 **Metabolomics in systems biology: Are we there yet?** *S. Jabaji and K.A. Aliferis.* Department of Plant Sciences, McGill University, Montreal, Quebec.
- 11:00 **Mining *Phytophthora* genomes to manage plant disease.** *Niklaus J. Grunwald.* USDA-Agriculture Research Service, Horticultural Crops Research Lab, Corvallis, Oregon.
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- 12:00 to 13:30 **Lunch** **Totem Cafeteria**
 CPS Business meeting **Totem Cafeteria 'annex'**
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- 13:30 to 17:00 **Contributed Paper Session 2 (Student):**
Molecular and Physiological Pathology
Chair: TBA **FSC 1005**
- 13:30 (APS) **Novel promoter elements from plant pararetroviruses for potential use in foreign gene expression in plants.** *C.V. Almeyda, K. L. Druffel and H.R. Pappu.*

- 13:45 (APS) **Genetic diversity within a vegetative compatibility group of aflatoxin-producing fungi.** *A. Ortega-Beltran, L. Grubisha and P.J. Cotty.*
- 14:00 (CPS) **Genetic analyses of crown rust resistance in *Avena sterilis* accessions.** *Y. Lin, C.A. McCartney, and J. Chong.*
- 14:15 (CPS) **Transcriptome analysis between a plant pathogen and a biocontrol agent.** *R. Chamoun and S. Jabaji.*
- 14:30 (CPS) **Isolation, cloning and sequence analysis of four pathogenicity-related genes in highly vs. weakly *Verticillium dahliae* aggressive isolates.** *A.F. El-Bebany, Z. Yao, A. Venturino, and F. Daayf.*
- 14:45 (CPS) **Screening for potato genes expressed differentially in the compatible and incompatible virus-potato interactions.** *B. Nie, C. Xie, and X. Nie.*
- 15:00 **Break**
- 15:15 (CPS) **Bioinformatic analysis of full-length cDNAs to identify transcript features in *Ustilago maydis*.** *C. Doyle and B.J. Saville.*
- 15:30 (CPS) **Uncovering a putative function for natural antisense transcripts in the fungal pathogen *Ustilago maydis*.** *M.E. Donaldson and B.J. Saville.*
- 15:45 (CPS) **Genetics and pathogenicity of *Microdochium nivale*.** *L.E. Jewell and T. Hsiang.*
- 16:00 (CPS) **Can phylogenetically useful oligonucleotide primers be obtained from comparative genomic analyses of filamentous ascomycetes?** *C.H. Huang and T. Hsiang.*
- 16:15 (CPS) **Raging hormones: The role of hormone defense signaling in the potato-*Verticillium dahliae* interaction.** *H. Derksen, M. Badawi, M.A. Henriquez and F. Daayf.*
- 16:30 (CPS) **Deciphering plant-pathogen interactions applying metabolomics: Principles and applications.** *K.A. Aliferis and S. Jabaji.*
- 16:45 (CPS) **Hydrolytic enzymes production by the plant pathogenic bacterium *S. scabiei* EF-35.** *D. Komeil, A. M. Simao-Beaunoir and C. Beaulieu.*

- 13:30 to 16:15 **Contributed Paper Session 3:
Ecology, Epidemiology and Management**
Chair: TBA **FSC 1221**
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- 13:30 **Comparison of biofungicides and boscalid for management of Sclerotinia drop of lettuce.** *M.E. Matheron and M. Porchas.*
- 13:45 **Effects of fungicides on a mycophagous coccinellid may represent integration failure in disease management** *A.M. Sutherland, W.D. Gubler and M.P. Parrella.*
- 14:00 **Forecasting the potential distribution and severity of fusarium head blight of wheat in the Canadian prairies under potential climate change scenarios.** *T.K. Turkington, O.O. Olfert, R.M. Weiss, H. Klein-Gebbinck, K. Xi and D. Kriticos.*
- 14:15 **Root disease inoculum reduction and tree species mixtures for stand resiliency and yield.** *M.G. Cruickshank, D.J. Morrison and A. Lalumière.*
- 14:30 **Foliage and stem susceptibility of six eastern Canadian forest species to *Phytophthora ramorum*.** *D. Rioux, M. Simard, A. Jinek, S.C. Brière, A.K. Watson and R.J. Tweddell.*
- 14:45 **Interaction between flax genotypes and *Septoria linicola* isolates from Western Canada.** *K.Y. Rashid.*
- 15:00 **Break**
- 15:15 **Effect of multiple repeated applications of low rates of fish emulsion to soils from different commercial fields on potato scab and tuber yield.** *P.A. Abbasi.*
- 15:30 **Epidemiology and management of potato late blight in Punjab, India.** *S.S. Sokhi and P.S. Sekhon.*
- 15:45 **Managing late blight and pink rot of potatoes with foliar and post-harvest applications of phosphorous acid.** *R.D. Peters, R.H. Coffin, H.W. Platt, K.I. Al-Mughrabi, G. Wang-Pruski, D. Pinto, S. Lim, I.K. Macdonald, K.A. Drake, R. Poirier, S. Veenhuis-MacNeill, W. Hardy and T. Astatkie.*

Poster take-down

Evening Harbour Cruise and on-board banquet and awards ceremony

Wednesday, June 23

- 8:30 to 11:30 **Symposium 3:
Canadian Forum for Biological Control**
Chair: Gary Peng **FSC 1005**
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- 8:00 **25 years in discovering, developing and marketing biopesticides-
lessons learned.** *Tim Johnson.* Product Development Manager,
Marrone Bio Innovations, Inc. Davis, CA, USA.
- 8:30 **Biocontrol of clubroot using the endophytic fungus *Heteroconium
chaetospora*.** *Kan Narisawa.* Agricultural College, Ibaraki University,
JAPAN.
- 9:30 **From laboratory bench to marketplace — The “Chontrol®” Story:
A legacy to government-academia-industry partnerships.** *Simon F.
Shamoun.* Pacific Forestry Centre, Department of Forest Sciences,
Victoria, BC. Canada.
- 10:00 Break
- 10:30 ***Phoma macrostoma*: The making of a new bioherbicide for broadleaf
weed control.** *Karen Bailey and Stuart Falk.* Agriculture & Agri-Food
Canada and The Scotts Company.
- 11:00 ***Trichoderma* — Not just for biocontrol anymore.** *G.E. Harman and
F. Mastouri.* Department of Horticultural Sciences, Cornell University,
New York State Agricultural Experiment Station, Geneva, NY, USA
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- 12:00 to 13:30 **Lunch** **Totem Cafeteria**
 CPS Incoming Board Meeting **Mary Murrin Lounge**
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- 13:30 to 16:15 **Contributed Paper Session 4:
Molecular and Physiological Plant Pathology**
Chair TBA **FSC 1005**
- 13:30 **Identification of expressed sequences in lily under pathogen attack
and rhizobacterium induction.** *Y. Liu, K. Yang and C. Chen.*

- 13:45 **Quantitative and qualitative variations in expression of pathogenicity genes of *Pythium aphanidermatum* during root rot infection of different hosts.** *K. Bala, G.P. Robideau, T.L. Rintoul, N. Tisserat, J.P. Hamilton, R.C. Buell, A.C. Lévesque and B. Saville.*
- 14:00 **Identification of type I polyketide synthases from fungal proteomes and transcriptomes.** *R.S. Goswami, J. A. Delgado, O. Al-Azzam, A.M. Denton and S.G. Markell*
- 14:15 **Low temperature induced defence gene expression in winter wheat in relation to resistance to snow moulds and other wheat diseases.** *D.A. Gaudet, Y. Wang, M. Frick, B. Puchalski, C. Penniket, T. Ouellette, L. Robert, J. Singh and A. Laroche.*
- 14:30 **Early dying innate immunity involves ligand dependent endocytosis of cell surface receptors.** *M. Kalischuk, I. Kovalchuk, A. Fusaro, P. Waterhouse, D. Prüfer and L. Kawchuk.*
- 14:45 **Break**
- 15:00 **Structural and functional genomics of the Dutch elm disease fungus *Ophiostoma novo-ulmi*.** *L. Bernier, V. Jacobi, J. Dufour, K.V. Plourde, G.F. Bouvet, W.E. Hintz, R.C. Levesque, V. Forgetta and K. Dewar.*
- 15:15 **Physical separation of germinating *Ustilago maydis* teliospores for gene expression analysis.** *A.M. Seto and B.J. Saville.*
- 15:30 **Evolution *de novo* of stable, heritable resistance to leaf rust (*Puccinia triticina* Eriks.) in susceptible wheat following cycles of infection with *wheat streak mosaic virus* (WSMV).** *S. Haber, D.L. Seifers, P. Seto-Goh and B. McCallum.*
- 15:45 **The genome of *Pythium ultimum* provides insight into pathogenicity mechanisms and evolution of oomycetes.** *C.A. Lévesque, G.P. Robideau, A.W.A.M. de Cock, K. Bala, Q.A. Eggertson, T.L. Rintoul, J. Hamilton, N. Tisserat and C.R. Buell.*
- 16:00 **Induced systemic resistance against three foliar diseases of *Agrostis stolonifera* by an Isoparaffin mixture.** *A.M. Cortes-Barco, T. Hsiang and P.H. Goodwin.*
- 16:15 **Genetics of resistance to leaf spotting diseases of wheat based on seedling and field experiments.** *C.A. McCartney, R.G. Stonehouse, R. Goodwin, P. Singh and G. Hughes.*

- 13:30 to 16:15 **Contributed Paper Session 5:
Detection, Identification and Taxonomy**
Chair: TBA **FSC 1221**
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- 13:30 **Another step closer to implementing inoculum detection as a method to time initiation of fungicide applications for management of grape powdery mildew.** *W.F. Mahaffee, G.G. Grove, D. Martin and A.S. Albrecht.*
- 13:45 **Fungal species associated with coast live oak (*Quercus agrifolia*) mortality in Southern California.** *A. Eskalen, S.C. Lynch, P. Zambino and T. Scott.*
- 14:00 **Species of *Neofabraea* responsible for anthracnose canker of apple trees in western Washington State.** *R. Zang, L. Huang and C.L. Xiao.*
- 14:15 **Development of a soil bioassay to assess the risk of spinach *Fusarium* wilt.** *E.W. Gatch and L.J. du Toit.*
- 14:30 **New Canadian records for *Gymnosporangium sabinae* and *G. yamadae*.** *S. Hambleton, M. Liu, J.A. Parmelee, M.J. Celetti and J. Llewellyn.*
- 14:45 **Break**
- 15:00 **A molecular test for the detection of the potato wart pathogen, *Synchytrium endobioticum*.** *D.S. Smith, C.A. Lévesque and S.H. De Boer.*
- 15:15 **Polymerase chain reaction protocol for detection of *Pyrenophora teres* in natural field soils.** *R.T. Lartey, T.C. Caesar-TonThat, A.J. Caesar, A.W. Lenssen, S. Hanson and R.G Evans.*
- 15:30 **Morphological and Molecular Characterization of *Ditylenchus dipsaci* (Kühn, 1857) Filipjev, 1936 (Nematoda: Anguinidae), infesting garlic in Ontario, Canada.** *Q. Yu, W. Ye, A. Badiss and F. Sun.*
- 15:45 **Pathogenic races of *Exserohilum turcicum* on corn in Ontario and Québec.** *X. Zhu, L. M. Reid and T. Woldemariam.*