

70th Annual Meeting of the

**Northeastern
Division**

**American
Phytopathological
Society**

Program and Abstracts
October 27-29, 2010

Hotel Northampton
Northampton, Massachusetts

**Northeastern Division Officers
2009-2010**

Norman Lalancette, President
Russell Tweddell, Vice-President
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Local Arrangements 2009-2010

Robert Wick
Frank Caruso

On the cover: Potato silver scurf caused by
Helminthosporium solani and *H. solani* on agar
(Courtesy R. Tweddell)

Program Design
A. B. Gould

WEDNESDAY, OCTOBER 27, 2010

- 8:30 – 1:00 Pre-Meeting Tour
Mt. Holyoke Hike
- 1:00 – 6:00 **REGISTRATION** – Lobby
- 1:30 – 5:00 **EXTENSION/INDUSTRY MEETING** – Hampshire Room
Presiding: Norman Lalancette
- 5:00 – 6:00 **NED-APS GRADUATE STUDENT AWARDS COMMITTEE** –
Insider's Board Room
- 5:00 – 7:00 **Dinner** (on your own)
- 7:00 – 10:00 **DIVISION SOCIAL** – Grand Ballroom

THURSDAY, OCTOBER 28, 2010

- 7:00 **CONTINENTAL BREAKFAST** – Atrium
- 7:30 – 11:00 **REGISTRATION** – Lobby
- 8:00 – 10:10 **SYMPOSIUM I: CHALLENGES AND PERSPECTIVES OF PLANT
PARASITIC AND BENEFICIAL NEMATODES IN PLANT PRODUCTION** –
Grand Ballroom
Presiding: Robert Wick
- 8:00 – 8:10 **WELCOME AND OPENING REMARKS**
Norman Lalancette, NED-APS President
- 8:10 – 8:35 **Major Nematode Species in the Northeast and the Challenges they Pose
to Plant Managers.**
*George S. Abawi, Dept. of Plant Pathology and Plant-Microbe Biology,
Cornell University*
- 8:35 – 9:00 **Trends in Biological Control of Plant Parasitic Nematodes: *Pasteuria*
Endoparasites and other Biocontrol Agents.**
Don Dickson, Dept. of Entomology and Nematology, University of Florida
- 9:00 – 9:25 **Implementing Allelopathic Chemical and Cultural Controls.**
*James LaMondia, The Connecticut Agricultural Experiment Station, Valley
Laboratory*
- 9:25 – 9:50 **Harnessing the Potential of Entomopathogenic Nematodes to Control
Plant Pests**
Parwinder Grewal, Dept. of Entomology, Ohio State University

- 9:50 – 10:10 **Panel Discussion – All symposium speakers**
- 10:10 – 10:30 **BREAK** for refreshments
- 10:30 – 12:00 **CONTRIBUTED PAPER SESSION I – Grand Ballroom**
Presiding: Geunhwa Jung
- 10:30 **Assessment of butternut health throughout New England and New York.** D. R. BERGDAHL (1), J. A. Bergdahl (1). (1) Plant Technologies, LLC., Charlotte, VT, U.S.A.
- 10:45 **White pine needle diseases in eastern Canada.** G. LAFLAMME (1), C. Côté (1), L. Innes (2). (1) Canadian Forest Service, Québec, QC, CANADA; (2) Ministère des Ressources Naturelles et de la Faune, Québec, QC CANADA
- 11:00 **Evaluation of *Juglans cinerea* trees putatively resistant to butternut canker (*Sirococcus clavigignenti-juglandacearum*): A new project supported by the Canadian Interdepartmental Recovery Fund.** D. RIOUX (4), P. DesRochers (4), N. Nadeau-Thibodeau (4), K. Klimaszewska (4), A. Branchaud (2), B. Roberge (6), R. Werbiski (3), M. Durand (5), L. Bernier (1). (1) Département des sciences du bois et de la forêt, Université Laval, Québec, QC, CANADA; (2) Environment Canada, Montreal, QC, CANADA; (3) National Defence, St-Jean-sur-Richelieu, QC, CANADA; (4) Natural Resources Canada, Laurentian Forestry Centre, Quebec, QC, CANADA; (5) Odanak Council, Odanak, QC, CANADA; (6) Parks Canada Agency, Québec, QC, CANADA
- 11:15 **Non-target effects of glyphosate on apples.** D. A. ROSENBERGER (2), C. B. Watkins (1), J. F. Nock (1), M. R. Miranda Sazo (5), C. J. Kahlke (4), M. J. Fargione (3). (1) Department of Horticulture, Cornell University, Ithaca, NY; (2) Department of Plant Pathology and Plant Microbe Biology, Cornell University, Highland, NY; (3) Hudson Valley Fruit Program, Cornell Cooperative Extension, Highland, NY; (4) Lake Ontario Fruit Program, Cornell Cooperative Extension, Lockport, NY; (5) Lake Ontario Fruit Program, Cornell Cooperative Extension, Newark, NY
- 11:30 **Aerial dispersal of *Phytophthora infestans* as a component of a Late Blight Decision Support System.** I. SMALL (1), H. Mayton (1), W. Fry (1). (1) Cornell University, Ithaca, NY, U.S.A.
- 11:45 **How the dynamics of plant disease epidemics depend on the timing of inoculum production.** F. J. FERRANDINO (1). (1) The Connecticut Agricultural Experiment Station
- 12:00 – 1:30 **LUNCH** on your own
- 1:30 – 5:00 **GRADUATE STUDENT AWARD COMPETITION – Grand Ballroom**
Presiding: Beth Gugino
- 1:30 **Effect of microbial communities in recycled irrigation water on the development of three *Pythium* species.** M. L. BURGOS-GARAY (1), G. W.

Moorman (1). (1) The Pennsylvania State University

- 1:45 **Effect of silicon amendment on the enhancement of soybean resistance to *Phakopsora pachyrhizi*.** G. ARSENAULT-LABRECQUE (1), J. Montpetit (1), W. Rémus-Borel (1), R. R. Bélanger (1). (1) Université Laval, Québec, QC, Canada
- 2:00 **Detection of propiconazole field resistant *Sclerotinia homoeocarpa* isolates.** J. T. POPKO (1), K. Campbell-Nelson (1), C. Ok (1), G. Jung (1). (1) University of Massachusetts-Amherst
- 2:15 ***Ustilago maydis* as a model system for the study of a glycolipid gene cluster in the biocontrol agent *Pseudozyma flocculosa*.** F. LEFEBVRE (1), B. Teichmann (1), C. Labbé (1), R. R. Bélanger (1). (1) Centre de recherche en horticulture, Université Laval, Québec, QC, CANADA
- 2:30 **Characterization of *Pythium* species causing Pythium blight of snap bean and other crops in the eastern U.S.** L. HARRISON (3), D. Langston (2), C. A. Wyenandt (1), S. Rideout (3). (1) Rutgers University, Bridgeton, NJ, U.S.A.; (2) University of Georgia, Tifton, GA, U.S.A.; (3) Virginia Tech, Painter, VA, U.S.A.
- 2:45 **Antagonistic activity of two strains of *Pseudomonas* against *Helminthosporium solani*, the causal agent of potato silver scurf.** A. BOJANOWSKI (1), B. Mimee (1), R. J. Tweddell (1). (1) Centre de recherche en horticulture, Université Laval, Québec, QC, CANADA
- 3:00 **The effect of spring and summer topdressing on anthracnose severity of annual bluegrass putting green turf.** J. W. HEMPFLING (1), B. B. Clarke (1), J. A. Murphy (1). (1) Department of Plant Biology and Pathology, Rutgers University, New Brunswick, NJ, U.S.A.
- 3:15 – 3:30 **BREAK** for refreshments
- 3:30 **Management and etiology of grape sour rot in the Niagara region.** C. HUBER (2), W. McFadden-Smith (3), D. Inglis (1). (1) Cool Climate Oenology and Viticulture Institute, Brock University, St Catharines, ON, CANADA; (2) Brock University, St Catharines, ON, CANADA; (3) OMAFRA, Vineland, ON, CANADA
- 3:45 **Post-harvest foliar urea sprays as an effective sanitation practice for reducing ascospore production by *Venturia inaequalis*.** R. NORTON (1), C. A. Smith (1), W. E. MacHardy (1), W. G. Lord (1). (1) University of New Hampshire
- 4:00 **Efficacy of control methods on black rot caused by *Xanthomonas campestris* pv. *campestris* in greenhouse transplant production.** H. W. LANGE (1). (1) Cornell University, NYSAES, Geneva, NY, U.S.A.

- 4:15 **Dispersal, infection and resistance factors affecting biological control of Canada thistle by *Puccinia punctiformis*.** S. A. CONAWAY (1), K. Shea (2), D. K. Berner (3), P. A. Backman (1). (1) Dept. of Plant Pathology, Pennsylvania State University, University Park, PA; (2) Dept. of Biology, Pennsylvania State University, University Park, PA; (3) Foreign Disease-Weed Science Research Unit, USDA, ARS, Ft. Detrick, MD
- 4:30 **Evaluation of combined effect of compost amendments and fumigation on strawberry verticillium wilt.** A. MARTIN-LAPIERRE (1), B. Mimeo (1), R. J. Tweddell (1). (1) Centre de recherche en horticulture, Université Laval, Québec, QC, CANADA
- 4:45 ***Armillaria* species distribution and site relationships in *Pinus* and *Tsuga*-dominated forests in Massachusetts.** N. J. BRAZEE (1), R. L. Wick (1). (1) Department of Plant, Soil, and Insect Sciences, University of Massachusetts, Amherst, MA
- 5:00 **NED-APS BUSINESS MEETING** – Northampton Room
Presiding: Norman Lalancette, President
- 5:30 **GRADUATE STUDENT AWARDS COMMITTEE** – Insider's Board Room
- 6:30 **SOCIAL** – Atrium
- 7:00 **BANQUET AND AWARDS** – Grand Ballroom

FRIDAY, OCTOBER 29, 2010

- 7:00 **CONTINENTAL BREAKFAST** – Atrium
- 8:00 – 10:00 **SYMPOSIUM II: EMERGING TRENDS IN PLANT HEALTH MANAGEMENT** – Grand Ballroom Presiding: Danny Rioux
- 8:00 – 8:25 **Mineral Oils Induce Systemic Resistance to Pathogens of Higher Plants.**
Bruce Clarke, Dept. of Plant Biology and Pathology, Rutgers University; Tom Hsiang, Environmental Biology, University of Guelph
- 8:25 – 8:50 **Pigments and Colorants Associated with Fungicides: Effects on Plant Health and Disease Control.** *Bingru Huang, Dept. of Plant Biology and Pathology, Rutgers University*
- 8:50 – 9:15 **Using Genomics to Enhance the Effectiveness of Biocontrol Products.**
Don Kobayashi, Dept. of Plant Biology and Pathology, Rutgers University
- 9:15 – 9:40 **Implications of Using Spray Additives and Premixes on Fungicide**

Performance and Disease Management. *John Kaminski, Dept. of Crop and Soil Sciences, Penn State University*

- 9:40 – 10:00 **Panel Discussion** – *All symposium speakers and David Rosenberger (Dept. of Plant Pathology and Plant-Microbe Biology, Cornell University), Andy Wyenandt (Dept. of Plant Biology and Pathology, Rutgers University) and Marge Daughtrey (Dept. of Plant Pathology and Plant-Microbe Biology, Cornell University)*
- 10:00 – 10:15 **BREAK** for refreshments
- 10:15 – 13:00 **CONTRIBUTED PAPER SESSION II** – Grand Ballroom
Presiding: Jon Hulvey
- 10:15 **The sensitivity of *Colletotrichum cereale* to in vitro exposure with Velista™ (penthiopyrad).** N. MITKOWSKI (1). (1) University of Rhode Island
- 10:30 **Can bacteriophage be used to control bacterial spot of peach?** R. E. MARRA (1). (1) Dept of Plant Pathology & Ecology, Connecticut Agricultural Experiment Station, New Haven, CT, U.S.A.
- 10:45 **Effectiveness for cucurbit powdery mildew of fungicides prone to resistance development.** M. T. MCGRATH (1), L. K. Hunsberger (1). (1) Cornell University, Riverhead, NY, U.S.A.
- 11:00 **Sensitivity of the cucurbit powdery mildew pathogen to fungicides prone to resistance development.** M. T. MCGRATH (1), K. L. Rivara (1). (1) Cornell University, Riverhead, NY, U.S.A.
- 11:15 **A disease of New Guinea impatiens (*Impatiens hawkeri* W. Bull) caused by *Pythium cryptoirregulare*.** M. L. DAUGHTREY (1), J. Komorowska-Jedrys (1), M. Tobiasz (1), G. W. Moorman (2). (1) Cornell University, Riverhead, NY, U.S.A.; (2) The Pennsylvania State University, University Park, PA, U.S.A.
- 11:30 **Use of Biochar to increase mycorrhizal colonization and suppress Fusarium crown rot of asparagus in replant soils.** W. H. ELMER (1). (1) The Connecticut Agricultural Experiment Station
- 11:45 **The effects of fungicides on yields and deoxynivalenol levels on spring barley in Maine.** S. B. JOHNSON (1), D. H. Lambert (1). (1) University of Maine
- 12:00 **New broad spectrum and safer fungicides for Brown Patch and Dollar Spot diseases of Turf Grass, Powdery Mildew of Pumpkin and Septoria Leaf Spot of Tomato.** N. I. KHAN (1), J. A. Trogolo (1). (1) Agion Technologies Inc., Wakefield, MA, U.S.A.

12:15 **Early season potyvirus epiphytotic affects cigar wrapper tobacco in Massachusetts and Connecticut.** J. A. LAMONDIA (1), C. R. Vossbrinck (2), F. J. Ferrandino (2). (1) The Connecticut Agricultural Experiment Station Valley Laboratory, Windsor, CT; (2) The Connecticut Agricultural Experiment Station, New Haven, CT

12:30 **Anthracnose of *Miscanthus sinensis* caused by *Colletotrichum graminicola*.** Y. LI (1), M. Windham (3), R. Trigiano (3), A. Windham (4), J. Spiers (2). (1) Connecticut Agricultural Experiment Station, New Haven, CT; (2) USDA/ARS, Poplarville, MS; (3) University of Tennessee, Knoxville, TN; (4) University of Tennessee, Nashville, TN

12:45 **Colonization of *Peronospora belbahrii* by the basidiomycetous yeast, *Pseudozyma*.** R. L. WICK (2), N. J. Brazee (2), H. C. Wick (1). (1) Tufts University, Medford, MA, U.S.A.; (2) University of Massachusetts, Amherst, MA, U.S.A.

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