

Joint Meeting of the Potomac and Northeastern Divisions  
**American Phytopathological Society**

**“Bridging Technology Gaps in Education and Research”**

March 10-12, 1999



Hosted by the  
University of Maryland, College Park, MD  
and USDA-ARS, Beltsville, MD

Loews Annapolis Hotel  
Annapolis, Maryland

**Joint Meeting of the Potomac and Northeastern Divisions  
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Loews Annapolis Hotel, Annapolis, Maryland

| <b>Wednesday, March 10</b>  | <b>Thursday, March 11</b>  |
|---|--|
| 1:00-8:00      Registration   | 8:00-noon      Registration  |
| 1:15-5:00      Forest Pathology Tour, Wash., D.C.<br>Dale Bergdahl, Bill MacDonald<br>Rob Defeo, Jim Sherald  | 8:15              Welcome and Introductions - Ballroom A<br>Dr. Henry A. Virts, D. V. M.,<br>Maryland Secretary of Agriculture<br>Dr. James W. Wade,<br>Associate Dean and Associate Director,<br>University of Maryland Cooperative<br>Extension. |
| 2:00-4:00      Extension Update - Thomas Point<br>Eric Stromberg<br>Norm Lalancette   | 8:30-11:45      Symposium - Ballroom A   |
| 4:00-5:00      Industry Update - Thomas Point<br>Roger Kaiser   | <b>The Relative Value of Molecular Characters in<br/>Understanding Fungal Evolution.</b><br>Presiding: Paul Tooley<br>Assisting: Erin Goley  |
| 5:00-6:00      Executive & Planning Comm., NED<br>Awards Committee, NED<br>Thomas Point   | 8:30      The sum is greater than its parts: inferring a<br>phylogeny from combined data sets. Linda Kohn,<br>University of Toronto.   |
| 7:00-8:00      Social Hour - Atrium   | 9:10      Phylogenetic inferences at the species level: three<br>case studies in the genus <i>Aspergillus</i> .<br>David Geiser, Pennsylvania State University.  |
| 8:00-9:30      Symposium - Thomas Point   | 9:50              Break  |
| <b>Delivery of Information Through New Technologies<br/>- Communications in the New Millennium.</b><br>Presiding: David Clement<br>Assisting: Jon Traunfeld   | 10:05      Putting the lichen-forming and lichen-parasitic<br>fungi in their place: The value of large molecular<br>data sets. Paula DePriest, Smithsonian Institution,<br>Wash., DC.  |
| <ul style="list-style-type: none"> <li>• The Home and Garden Information Center - an extension program for public outreach - David L. Clement, U. of MD Cooperative Extension.</li> <li>• Diagnostic web site for plants, landscapes, and pests - Mary K. Malinoski, U. of MD Cooperative Extension.</li> <li>• Integrating traditional methods and new technology for information delivery - Jon H. Traunfeld, U. of MD Cooperative Extension.</li> <li>• Communication technologies for the future that utilize the web and teleconferencing - Jerry O'Donnell, Lucent Technologies.</li> </ul> | 10:45      Molecular and morphological criteria for classification of the graminicolous clavicipitaceae. James White, Rutgers University.  |

10:00-11:45 **Contributed Papers** - Ballroom B  
Presiding: Deborah Fravel  
Assisting: Mike Blum

10:00 Evaluation of bactericides for the control of copper-resistant *Pseudomonas syringae* on tomato in Virginia. ALEXANDER, S. A., (1), Waldenmaier, C. M., (1) and Kim, S. H., (2). (1) Virginia Polytechnic Institute and State University, Blacksburg, VA, and (2) Pennsylvania Department of Agriculture, Harrisburg, PA.

10:15 Utilization of rep-PCR in characterizing populations of *Clavibacter michiganensis* subsp. *michiganensis* in commercial tomato fields of Michigan. WERNER, N., Hausbeck, M. K., Fulbright, D. W., Michigan State University, East Lansing, MI.

10:30 Using TOMCAST, a disease forecasting system, for timing fungicide sprays for purple spot of asparagus. Meyer, M. P., and HAUSBECK, M. K., Michigan State University, East Lansing, MI.

10:45 Epidemiology and management of gray leaf spot of corn in the U.S. NUTTER, Jr., F. W., (1) and Stromberg, E. L., (2) (1) Iowa State University, Ames, IA, and (2) Virginia Polytechnic Institute and State University, Blacksburg, VA.

11:00 Comparison of weather data collection methods for predicting late blight of potato in Delaware. MULROONEY, R. P., Whalen, J., and Spellman, M. R., University of Delaware, Newark, DE.

11:15 Managing bacterial spot of bell peppers with resistant varieties and copper applications initiated after disease detection. MC GRATH, M. T., Cornell University, Riverhead, NY.

11:30 Noncucurbit hosts of the cucurbit powdery mildew fungus. SHISHKOFF, N., Cornell University, Riverhead, NY.

11:45-1:15 **Lunch (on your own)**

**Poster Set Up**

1:15-2:15 **Graduate Student Paper Competition** - Ballroom A&B  
(Potomac and Northeastern Divisions)  
Presiding: Bob Mulrooney  
Assisting: Peter Oudemans

1:15 Management of powdery mildew on poinsettia. BYRNE, J. M., and Hausbeck, M. K. . Michigan State University, East Lansing, MI. (Northeast)

1:30 Cyanide-resistant respiration and altered virulence in the oak wilt fungus *Ceratocystis fagacearum*. SHAW, R.S., Bertrand, H., and Fulbright, D.W. Michigan State University, East Lansing, MI. (Northeast)

1:45 Effect of transgene Bt toxin and applications of tefluthrin, azoxystrobin and propiconazole on yield and agronomic characters of near isoline double-cropped corn in Virginia. SFORZA, P.M., Hagood, E. S., and Stromberg, E. L., Virginia Polytechnic Institute and State University, Blacksburg, VA. (Potomac)

2:00 Fruit spot (bird's-eye) development caused by *Clavibacter michiganensis* subspecies *michiganensis* on processing tomatoes. MEDINA-MORA, C. M., Bell, J., Hausbeck, M.K., and Fulbright, D. W., Michigan State University, East Lansing, MI. (Northeast)

2:15-3:15 **Contributed Papers**

2:15 Impact of *Verticillium dahliae* on eggplant root exudates and *Trichoderma spp.* populations in poultry compost amended soil. GASKINS, V. L., Philip, E., Karanja, K., Brooks, C., and Morant, M., University of Maryland Eastern Shore, Princess Anne, MD. (Potomac)

2:30 Effectiveness of azoxystrobin and chlorothalonil in control of early blight, anthracnose and powdery mildew of processing and fresh market tomatoes. JOHNSTON, S., Maletta, M., Cowgill, W., Tietjen, W., Manning, T., and Nitzsche, P., Rutgers Agricultural Research & Extension Center Bridgeton, NJ.

- 2:45 Effects of SI fungicides on red delicious apples. OLSON, B. D., Dow AgroSciences, Geneva, NY.
- 3:00 Analysis of fire blight epidemics with spatio-temporal distance class analysis. BIGGS, A. R., West Virginia University, Kearneysville, WV.
- 3:15 Break
- 3:30-4:00 Joint Business Meeting, both divisions - Ballroom A & B
- 4:00-5:00 Separate Business Meetings: Potomac Division - Ballroom A Northeastern Division - Ballroom B
- 6:00-7:30 **Poster Session - Atrium**  
(See Page 5 for Posters)  
Presiding: Jim Locke
- 6:00-7:30 Industry and APHIS displays- Atrium
- 6:30-7:00 Industry Social- Windjammer Room  
Sponsored by Zeneca
- 7:30-9:30 Banquet- Ballroom

### Friday, March 12

- 8:00-8:30 Registration
- 8:30-12:00 Symposium - Ballroom A
- Advances in the Biology and Management of Gray Leaf Spot (*Pyricularia grisea*) in Cool-Season Turfgrasses**  
Presiding: Peter Dernoeden  
Assisting: John Kaminski
- 8:30 History and symptomology of gray leaf spot in perennial ryegrass golf turf in the mid-atlantic region. Peter Dernoeden, University of Maryland
- 9:00 Molecular genetics of *Magnaporthe grisea* from various grasses. Mark Farman, University of Kentucky.
- 9:30 Epidemiology of gray leaf spot and host specificity. Wakar Uddin, Pennsylvania State University.
- 10:00 Break

- 10:15 Cultural practices and germplasm resistance for managing gray leaf spot. Bruce Clarke, Rutgers University.
- 10:45 Fungicidal management of gray leaf spot of perennial ryegrass: necessity, efficacy, and timing. Paul Vincelli, University of Kentucky.
- 11:15 How gray leaf spot has impacted the golf industry. Stanley Zontek, United States Golf Association.
- 11:45 Discussion
- 8:15-10:00 **Contributed Papers - Ballroom B**  
Presiding: Bryan Bailey  
Assisting: Marcos Camara
- 8:15 Row spacing as a tool in the management of Sclerotinia white mold in soybeans., PENNYPACKER, B. W., and Risium, M. L., Pennsylvania State University, University Park, PA.
- 8:30 New rust and mosaic resistant bean germplasm releases in 1998. STAVELY, J. R., USDA-ARS, Beltsville, MD.
- 8:45 Acrobat MZ for controlling tobacco blue mold: a 3-year summary of field trials., BECKER, C. M., McCullough, J., Walls, F. B., American Cyanamid Co, Romulus, NY.
- 9:00 *Bacillus megaterium*: a possible biocontrol organism against *Cryphonectria parasitica* on American chestnut. GROOME, P., Tattar, T., and Mount, M. S., University of Massachusetts, Amherst, MA.
- 9:15 Information obtained from E4/E6 ratios in decomposing red spruce sapwood., CONNOLLY, J. H., (1), Jellison, J., (2) and Shortle, W., (3). (1) Husson College, Bangor, ME, (2) University of Maine, Orono, ME, and (3) USDA Forest Service, Durham, NH.
- 9:30 Suppression of *Colletotrichum spp.* causing apple bitter rot by calcium salts. BIGGS, A. R., West Virginia University, Kearneysville, WV.
- 9:45 Characteristics and distribution of the new Carla virus isolated from the potato cv. Red LaSoda. GOTH, R. W., Ellis, P. J., de Villiers, G., Goins, E. W., Wright, N. S., and Ballesteros, M., USDA-ARS, Beltsville, MD.

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POSTER SESSION

Thursday, March 10 - 6-7:30 PM - Atrium

Presiding: Jim Locke

Hypovirus colonization of *Cryphonectria parasitica* cankers. JONES, W., West Virginia University, Morgantown, WV.

Phytoplasmas associated with clover phyllody and clover dwarf diseases in Lithuania. Staniulis, J., (1), Davis, R. E., (3), JOMANTIENE, R., (1,3), Kalvelyte, A., (2), and Dally, E. L., (3). (1) Institute of Botany and (2) Institute of Biochemistry, Vilnius, Lithuania, and (3) USDA-ARS, Beltsville, MD.

Total catabolic capabilities of *Enterobacter cloacae* are not required for suppression of damping-off of cucumber caused by *Pythium ultimum*. ROBERTS, D. P., and Dery, P. D., USDA-ARS, Beltsville, MD.

The pathogenicity of several fungal pathogens as affected by a 24 kDa protein from *Fusarium oxysporum*. APEL-BIRKHOLO, P. C. (1), Anderson, J. D., (2) and Bailey, B. A., (1) USDA-ARS, PSI, BPD (1), WSL (2), Beltsville, MD.

Sequence analysis of the ITS region and B-tubulin intron 3 for differentiation of *Claviceps* species pathogenic on sorghum. TOOLEY, P. W., (1), Goley, E., (1), Carras, M. M., (1), Kulda, G., (2), Frederick, R. D., (1), and Webber, E., (1). (1) USDA-ARS, Ft. Detrick, MD, and (2) USDA-ARS, Athens, GA.

Phytoplasmas similar to strains belonging to 16S rRNA RFLP groups II, III, and VI are associated with Hibiscus witches' broom disease in Brazil. MONTANO, H. G., (1,2), Davis, R. E., (2), Dally, E. L., (2), and Brioso, P. S. T., (1). (1) Universidade Federal Rural do Rio de Janeiro, Brazil, and (2) Molecular Plant Pathology Laboratory, USDA-ARS, Beltsville, MD.

*Ophiosphaerella agrostis* sp. nov., and its relationship to other *Ophiosphaerella* species pathogenic to grasses. CAMARA, M. P. S., Pennsylvania State University, University Park, PA, Dernoeden, P. H., University of Maryland, College Park MD, Palm, M. E., van Berkun, P., O'Neill, N. R., USDA-ARS, Beltsville, MD.

Reduction of postharvest gray mold rot of 'Golden Delicious' apples by bacterial antagonists and a combination of antagonists and calcium chloride. MOLINE, H. E., USDA-ARS, Horticultural Crops Quality Lab, Plant Sciences Institute, Beltsville, MD.

Differential hybridization analysis of a cDNA library from soybean severe stunt virus-infected soybean BASNAYAKE, M. D. V. R., and Evans T. A., University of Delaware, Newark, DE.

Impact of nutrient source on microbial community and yield of strawberry grown in Verticillium wilt infested soil. MITCHELL, V., Morant, M., and Brooks, C., University of Maryland Eastern Shore, Princess Anne, MD.

A new disease of *Pennisetum alopecuroides* cv. 'Hameln' caused by the endophytic fungus *Balansia*. WHITE, J. F., Rutgers University, New Brunswick, NJ, and Dutky, E. M., University of Maryland, College Park, MD.

Recovery of endophytic *Erwinia amylovora* from symptomless tissues of orchard apple trees. van der Zwet, T. (1), Hickey, K. D., (2), and Miller, S. S., (1), (1)USDA-ARS Appalachian Fruit Research Station, Kearneysville, WV; and (2) Pennsylvania State University, Fruit Research and Extension Center, Biglerville, PA.

Discrimination of weed biocontrol pathogens utilizing amplified fragment length polymorphism (AFLP) and rapid amplified microsatellite (RAMS) analyses. LUSTER, D. G., Goley, E.D., and Paxson, L., USDA-ARS, Ft. Detrick, MD.

Relative importance of seed treatments and foliar fungicides on winter wheat production in Maryland in 1997 and 1998. GRYBAUSKAS, A., University of Maryland, College Park, MD.

Phylogenetic analyses of lichenicolous fungi. SIKAROODI, M., (1,2), Lawrey, J. D., (1), Torzilli A. P., (1), DePriest, P. T., (2). (1)George Mason University, Fairfax, VA and (2)Smithsonian Institution, Washington, DC.

Molecular markers for virulent species of *Armillaria* in North America, and primer/template dynamics. PIERCEY-NORMORE, M. D., (1), Egger, K. N., (2), Bérubé, J.A. (3). (1)Memorial University of Newfoundland, St. John's, NF, (2)University of Northern British Columbia, Prince George, BC (3)Canadian Forest Service, Ste-Foy, QC.

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