

15th Ornamental Workshop on Diseases and Pests



Plant Pathology Program
Kanuga Conference Center
Hendersonville, NC
September 25 - September 29, 2006



Monday: September 25, 2006

4:00- 6:00 PM **Registration** (Kanuga Lake Inn, Cunningham Lobby)

6:00 – 7:00 Dinner

7:00 –10:30 Social & Entertainment (Waterfront Pavilion)

Tuesday morning: September 26

8:00 – 8:45 AM Breakfast

9:00 – 9:10 **Announcements** (Balthis-Rodwell Building)

9:10 – 9:20 **Welcome** -- Dr. James Moyer, Head, Department of Plant Pathology, NC State University, Raleigh

Plenary Session: "Regulatory Affairs - New Challenges" Colleen Warfield, Moderator

9:20 – 9:40 **Plants, Pathogens, Pests and Regulatory Approaches.** Shirley Wager Pagé, Branch Chief, Commodity Import Analysis and Operations Staff, PPQ, APHIS, Riverdale, MD

9:40 – 10:00 **Plants, Pathogens, Pests and Regulatory Approaches – A Response.** Mike Klopmeier, Director of Plant Pathology, Ball Horticultural Co., West Chicago, IL.

10:00 – 10:30 Discussion of presentations by Shirley Wager Pagé and Mike Klopmeier

10:30 – 10:40 Break

Plenary Session: "eXtension" Steve Bambara, Moderator

10:40 – 11:00 **eXtension – The model for extension delivery in the future.** Kevin Gamble, Associate Director National eXtension Initiative, NC Cooperative Extension, NCSU, Raleigh

11:00 – 11:20 **eXtension and IPM.** Ron Stinner, Director, USDA Southern Region IPM Center, and NSF/IUCR Center for Integrated Pest Management. NCSU, Raleigh

11:20 – 11:45 Discussion of presentations by Kevin Gamble and Ron Stinner

11:45 – 11:50 **Plant Management Network - A Source for Information on Ornamentals.** Melodie Putnam, Oregon State University

11:50 – 12:30 **Joint poster session** (titles listed at end of program)

12:30 Lunch

New Virus Diseases Jim Moyer, Moderator (Balthis-Rodwell Bldg.)

1:30 – 1:45 **Detection of Canna yellow mottle virus.** Ben Lockhart, Univ. Minnesota

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- 1:45 – 2:00 **Hosta virus X and other viruses of ornamentals.** Ben Lockhart, Univ. Minnesota
- 2:00 – 2:15 **Some new and emerging viruses of perennial ornamentals.** Ben Lockhart, Univ. Minnesota
- 2:15 – 2:30 **Virus diseases of ornamentals in Ohio.** Dennis Lewandowski, Ohio State, Columbus
- 2:30 – 3:00 Break
- 3:00 – 3:15 **New virus detection assays.** Mike Tiffany, Agdia, Elkhart, IN
- 3:15 – 3:30 **Rose viruses at the New York Botanical Garden,** Jody Fetzer, IPM Manager, NYBG, Bronx, NY
- 3:30 – 3:45 **Impatiens necrotic spot virus and ornamentals.** Jim Moyer, N.C. State Univ.
- 3:45 – 4:00 view posters
- 4:00 – 6:00 Free time
- 4:00 – 5:00 **National Plant Diagnostic Network -- discussion.** Karen Snover-Clift, Cornell
- 6:00 Dinner

New Crops and New Diseases Gary Moorman, Moderator (Balthis-Rodwell Bldg.)

- 7:30 – 8:30 **Homework 101 answers revealed.** Gary Moorman, Penn State
***Thielaviopsis* - a pathogen with many hosts.** Steve Jeffers, Clemson
***Phytophthora cambivora* and other dieback species.** Mike Benson, NCSU
***Phytophthora nicotianae* in perennials.** Chuan Hong, VA Tech
Phlox blight Meg Williamson, Steve Jeffers, Clemson
Images Contributed for Discussion
- 8:30 – 10:30 Social (Kanuga Lake Inn -- Johnson Fireplace Lounge/Rocking Chair Porch)
Moon Pie Decorating Contest – (Bring or decorate a Moon Pie. Prize for best Moon Pie)
Prizes awarded to best insect and best disease Moon Pie Wednesday night.

Wednesday morning: September 27th

- 8:00 - 8:45 Breakfast
- "Diseases and disease control" (Balthis-Rodwell Bldg.)
- 9:00 – 10:00 **Plant disease control and label updates: A discussion.** Alan Windham, Moderator, UT
The IR4 Ornamentals Program. Cristi Palmer, IR4 Ornamentals Program Manager, Rutgers
Fenstop update. Jeff Dobbs, OHP
Insignia update. Kathie Kalmowitz, BASF
Disarm (fluoxastrobin) update. Mimi Rose, Arysta
Muscador update. Brett Highland, AgraQuest
- 10:00 – 10:15 Break
- "Downy mildews – Are they here to stay?" Margery Daughtrey, Moderator,
- 10:15 – 11:15 **Downy mildews in ornamental crops.** Margery Daughtrey, Cornell
Downy mildew of *Rudbeckia fulgida* cv. Goldsturm. Chuan Hong, VA Tech, Hampton, VA
Downy mildews in North Carolina. Colleen Warfield, NCSU

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"Phytophthora diseases in ornamentals" Mike Benson, Moderator

11:15 - 12:15 ***Phytophthora ramorum*: a soilborne pathogen?** Nina Shishkoff, ARS, Ft. Detrick
Detection and management of *Phytophthora* propagules in irrigation water. Chuan Hong,
Best management practices for *Phytophthora* in nurseries. Steve Jeffers, Clemson Univ.
Nursery surveys in Kentucky for *Phytophthora ramorum*. Patricia de Sa' Univ. Kentucky

12:30 Lunch

1:30 – 4:00 Optional Tour of NC Arboretum; Mycological Foray (Rich Baird); or Free time

6:00 Dinner

Social (Kanuga Lake Inn -- Johnson Fireplace Lounge/Rocking Chair Porch)

7:30 –10:30 **Pest ID 101 and Kanuga Mountain Band (a.k.a. Crossnore Philharmonic)**
Dress to test your colleagues' knowledge of pests and pathogens
Play a musical instrument? Bring it along and join the band.
Moon Pie decorating winners announced.

Thursday morning: September 30

8:00 - 8:45 Breakfast

9:00 – 12:00 Contributed Presentations (Balthis-Rodwell Building), Gary Moorman, Moderator

Butternut canker 101. Cynthia Ash, USFS, Durham, NH
***Rhodococcus fascians*.** Melodie Putnam, Oregon State University
Cambistat for pine tip blight and dogwood powdery mildew. Ed Dixon, University of Kentucky.
Searching for *Xylella* in all the odd places. Bernadette Amsden, University of Kentucky.
Treatments for oak bacterial leaf scorch. John Hartman, University of Kentucky.

10:00 – 10:15 Break

Images of selected fungal disease symptoms and signs. Paul Bachi, University of Kentucky.
***Corynespora* leaf spot of African violet.** Hillary Ross, University of Tennessee
The UT ornamental pathology program – update. Mark Windham, University of Tennessee
Evaluation of current roses for blackspot resistance. Jimmy Mynes, University of Tennessee
Pansy mottle syndrome. Larry Barnes, Texas A&M University, College Station

12:30 Lunch

1:30 – 3:00 Contributed Presentations. Mike Benson, Moderator

Copper ionization treatment of recycled water for *Phytophthora*. Colleen Warfield, NC State
***Pythium* detection in ornamentals and value of microsatellite analysis.** Gary Moorman
***Phytophthora ramorum*: Tiffany Creek update.** Steve Oak, USFS, Asheville, NC
The genetics of *Phytophthora ramorum* and implications for the nursery trade Kelly Ivors, NC State University, Fletcher, NC
A suppressive soils approach to management of *Phytophthora* root rot in field-grown Christmas trees. Brantlee Richter, NC State University
***Phytophthora* surveys in Indiana.** Gail Ruhl, Purdue University.
Communicating diagnosis & control recommendations to the general public – a discussion.
Plant Management Network -- survey form and discussion. Melodie Putnam, Oregon State

3:00 – 3:10 Break and/or Free time

6:00 Dinner

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7:30 –8:30 **Best images: Entomology vs. Plant Pathology, Round 2**

8:30 – 10:30 Social (Kanuga Lake Inn -- Johnson Fireplace Lounge/Rocking Chair Porch)

Plant Pathology Poster Titles

The effect of shearing on transmission of *Diplodia pinea* within Scots pine Christmas tree farms. Amy Bateman and John Hartman, University of Kentucky

***Phytophthora citricola* causes a stem canker in black walnut (*Juglans nigra*).** Janna Beckerman and Gail Ruhl, Purdue Univ.

The use of Rhapsody in commercial integrated control systems for ornamental disease in the U.S. Brett Highland, AgraQuest.

Flowering dogwood cultivar resistance to *Cercospora* leaf spot. Kassie Conner and K. L. Bowen, Auburn Univ.

Botrytis blight in geraniums and induced resistance by *Trichoderma hamatum* 382 and binucleate *Rhizoctonia* spp. Heather Olson and D.M. Benson

***Phytophthora ramorum* and other species of *Phytophthora* detected in field soil and water at retail nurseries in the southeastern USA.** Wamishe, Y., Jeffers, S. N., and J. Hwang.

Monitoring occurrence and distribution of *Phytophthora* species in forest streams in western North Carolina. Hwang, J., Oak, S. W., and S. N. Jeffers.

***Phytophthora nicotianae* causes leaf blight on Hosta.** Watson, A. F., Riley, M. B., and S. N. Jeffers.

Genotypic and phenotypic characterization of *Phytophthora cinnamomi* from ornamental crops in North Carolina. Elizabeth Schoenbaum, D. M. Benson, and I. Carbone

White ash mosaic virus, a previously undescribed flexivirus occurring in *Fraxinus* spp. in North America. Jose E. Machado, Benham E. Lockhart, and Jason A. Smith.

Preliminary characterization of Cycad leaf necrosis virus, the first badnavirus identified in a gymnosperm. Ben Lockhart (UMinn), J. Fetzer (NYBGarden) and N.E. Olszweski (UMinn)

Association of a previously undescribed filamentous virus with a yellow mosaic disease of rose. Ben Lockhart (UMinn), J. Fetzer (NYBGarden) and David Zlesak (UMinn)

Entomology Poster Titles (see [Entomology Program](#))

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