



and



**EASTERN BRANCH
ENTOMOLOGICAL SOCIETY OF AMERICA
74TH ANNUAL MEETING**

AND

**59TH ANNUAL MEETING OF THE
POTOMAC DIVISION AMERICAN
PHYTOPATHOLOGICAL SOCIETY**

*Entomology and Plant Pathology:
Sciences Essential to Success in a Changing World*

**March 16-18, 2003
Harrisburg Hilton
Harrisburg, PA**

Program Overview

	<u>Event</u>	<u>Time</u>	<u>Location</u>
SUNDAY			
Afternoon	Registration	1:00-5:00	Main Floor
	It's a Bug's World - Public Program	1:00-5:00	Whitaker Center
	ESA Executive Committee	1:00-5:00	Bridgeport Board
	Poster set up and display	1:00-5:00	Gettysburg/Lancaster
Evening	Welcome Reception	5:30-7:00	Gettysburg/Lancaster
	Student Networking	7:00-9:00	Penn-Harris
	Workshop: Recently Introduced Pests	7:30-9:30	New Governor Board
	Informal Conference: Wireworm Management	7:30-9:30	Leland Board
MONDAY			
Morning	Registration	8:00-5:00	Main Floor
	Meeting Introduction and Panel Discussion	8:00-9:15	Carlisle
	Informal Conference: Panel Discussion cont'd	9:30-12:00	Penn-Harris
	Symposium: Those Miserable Little Suckers- Homoptera Causing Problems in the NE	9:30-12:30	Carlisle
	Submitted Papers	9:30-12:05	York
Afternoon	Graduate Student Paper Competition	1:10-4:50	Carlisle
	Business Meeting, Eastern Branch ESA	5:00-6:00	Penn Harris
	Business Meeting, Potomac Division APS	5:00-6:00	Harrisburger
Evening	Social Gathering and Cash Bar	6:00-6:30	Gettysburg/Lancaster
	Banquet and Awards	6:30-9:00	Ballrooms 1-3
	Linnaean Games	9:00-end	Penn Harris
	DeBary Bowl	9:00-end	Harrisburger

Program Overview, continued

	<u>Event</u>	<u>Time</u>	<u>Location</u>
TUESDAY			
Morning	Registration	8:00-5:00	Main Floor
	Symposium: New Invasive Species-Possibilities for Biological Control	8:00-12:00	Carlisle
	Symposium: New Chemistry & Technology for Pest Management	8:00-12:00	Harrisburger
	Formal Conference: NE Regional Field Crops	8:00-10:30	York
	APS Industry/Extension Updates	10:30-12:00	York
Noon	Lunch with National ESA President & Director	12:15-1:30	Strawberry Arcade
	5K Run/Walk	12:15-1:30	
Afternoon	Graduate Student Symposium: Friends or Enemies-Insect, Plant, and Fungi Relationships in Nature	1:30-5:00	York
	Symposium: Bacterial Leaf Scorch	1:30-4:00	Carlisle
	Symposium: Biosecurity-Protecting Agricultural and Environmental Resources from Introduced Organisms	1:30-5:00	Penn Harris
	Submitted Papers	1:00-3:40	Harrisburger

2003
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Thank you!

2003 Eastern Branch ESA Award Winners

ESA Recognition Award for Excellence in Entomology, Randy Gaugler



Randy Gaugler is an international authority on the behavior, ecology, physiology, genetics, and molecular biology of entomopathogenic nematodes. Strains developed in his laboratory are licensed and marketed as biological insecticides in the U.S., Europe, and Asia. Randy proposed the idea of “ambusher” and “cruiser” forager nematode species. This formed the basis for selecting the right nematode species for a given pest species. He pioneered genetic improvement of entomopathogenic nematodes using traditional and molecular methods, and recently his laboratory employed molecular methods to incorporate genes into entomopathogenic nematode strains. This work has culminated in the field release of the first non-microbial transgenic natural enemy. Randy established the *Entomopathogenic Nematode Outreach Team*, which developed award-winning multimedia instructional aids to assist growers in using biological insecticides. In 1981, Randy joined the faculty at Rutgers, New Jersey, where he is currently a Distinguished Professor of Entomology. Randy received a B.S. in Entomology from North Dakota State University in 1968, an M.S. in Entomology from North Carolina State University, and a Ph.D. in Entomology from the University of Wisconsin in 1978. Randy has published over 180 refereed papers and edited three books. He has been elected a Fellow of both the American Association for the Advancement of Science and the Society of Nematologists. He served as an editor for the *Journal of Nematology* and chaired subsection Ce of ESA. Through his many contributions, Randy has demonstrated a rare level of excellence and achievement in insect pathology and biological control.

ESA Distinguished Achievement Award in Teaching, Cole Gilbert



Cole Gilbert is an outstanding ambassador for the study of insects. His contagious enthusiasm along with an extensive interest in insect biology, evolutionary ecology, and natural history are tremendous assets for promoting entomology. Cole Gilbert is a major contributor to undergraduate and graduate education in Entomology at Cornell University, Ithaca, New York. He teaches Insect Biology, an undergraduate course that focuses on basic taxonomic diversity and general entomology. At the graduate level, he teaches Insect Physiology. His courses are extremely rigorous, exceptionally organized, and receive outstanding ratings from students, both graduate and undergraduate alike. Because of his vast knowledge and willingness to spend many hours with each student, he is one of the most sought after members of the faculty in his graduate field at Cornell. The fact that he has served on over 25 graduate student committees in the past 10 years underscores his commitment to student mentoring. Cole received his B.A. in Biology from Washington University, M.A. and Ph.D. in Entomology from University of Kansas. He joined the Department of Entomology at Cornell University in 1992 as an Assistant Professor, where he is currently an Associate Professor and member of Graduate Programs in Entomology, Neurobiology, and Behavior. His hands-on teaching style, incredible patience with students, and uncommon enthusiasm for the subjects he teaches, are all hallmarks of an outstanding teacher. The fact that he consistently scores near-perfect student evaluations underscores his deep commitment to teaching.

Herb Streu Meritorious Service Award, William Gimpel



William F. Gimpel is Chief of the Plant Protection and Weed Management Section of the Maryland Department of Agriculture in Annapolis, Maryland. His responsibilities include administrative supervision of statewide regulatory programs for noxious weeds, plant insect and disease control/quarantine, apiary inspection, nursery inspection, ginseng management, and virus-free and true-to-name plant certification. Since joining the Society as a student in 1970, Bill has served the ESA at both national and branch levels. In the Eastern Branch, he has served on the Employment and Linnaean Games Committees, as Chair of the Site Selection and the Registration and Hospitality Committees (three terms), Co-Chair of the Local Arrangements Committee, and was most recently Treasurer. Nationally, he has been Secretary, Chair Elect and Chair of both Subsection Eb and Section E, has served on the Finance Committee and is currently the Section E representative on the Governing Board. While on the Governing Board, he chaired the Nominations Committee for the past three years. Bill is a member of the Entomological Society of Washington, the Maryland Entomological Society and the Maryland State Beekeepers Association. He is the Past President of the Eastern Plant Board and is the State Plant Regulatory Official for Maryland on the National Plant Board. Bill received an A.A. in horticulture from the University of New Hampshire, a B.S. in agricultural economics, and M.S. and Ph.D. in entomology from the University of Maryland.

L. O. Howard Distinguished Achievement Award – Ronald M. Wesloh

Ron Wesloh is an entomologist at the Connecticut Agricultural Experiment Station in New Haven, Connecticut, where he has been employed since receiving his Ph.D. in 1970. He received his undergraduate degree in Zoology from Brigham Young University and his doctorate in Entomology from the University of California at Riverside. His research has focused on the gypsy moth, with a particular emphasis on biological control. His multidisciplinary research has included studies on insect dispersal and dispersion, behavior of gypsy moth larvae and their predators and parasitoids, and population ecology. Noteworthy among his biological control research contributions are

demonstrations that a predatory ground beetle and several species of ants reduce gypsy moth larvae in forests and discovery that heavy mortality of gypsy moth larvae was caused by the fungus *Entomophaga maimaiga*. Further work with this fungus led to the development and validation of a computer model for fungal infections, work that is of high practical value for foresters, town officials and homeowners. Ron's research has had a significant impact on society with citizens and the scientific community benefiting from his efforts. He has distinguished himself by asking important questions and by conducting well-designed and relevant experiments to answer these questions.

John Henry Comstock Award Winner, Andrea Huberty



Andrea Huberty received her undergraduate degree, where she worked with Dr. John Jaenike investigating aggregation pheromone in *Drosophila*. In 1999, Andie received a Master of Science degree from the Entomology Department at the University of Maryland, College Park, Maryland, working with Dr. Robert Denno on the responses of herbivore feeding guilds to salt-stressed host plants. She is currently a Ph.D. candidate at the University of Maryland, Entomology Department investigating the consequences of stoichiometric inequalities between host plants and phytophagous insects. During 2000-2001, Andie was Chairperson of the Student Affairs Committee for the Entomological Society of America. Currently, she is involved with mentoring programs at the high school level, and is also active in the local chapter of the American Association for University Women. In 1999, Andie received the Asa Fitch Award from the Eastern Branch. She was awarded an Environmental Protection Agency Science to Achieve Results Graduate Fellowship for her graduate research in 2000 and will be completing her fellowship this summer. Andie plans to (hopefully) graduate in May 2004.

Asa Fitch Memorial Award Winner, Nicolas H. Ellis



Nic was born in Lancaster, Pennsylvania and spent his youth nearby in the small town of Mt. Joy. After completing college in 1996, he worked for Terminix® International as a Sales Inspector. In 1999, he began a Master of Science degree program Penn State University with Dr. Larry Hull. Nic's Master of Science thesis was based on the characterization of the efficacy of novel mating disruption techniques for control of the oriental fruit moth in apples. Following completion of his M.S. requirements in 2002, he began a doctoral program with Dr. Hull. Nic's dissertation research will describe movement of the oriental fruit moth adults between and among its apple and peach hosts. Nic is actively involved in extracurricular activities within the Department of Entomology.



Sunday afternoon and evening

Registration

1:00-5:00

Main Floor

“It’s a Bug’s World”

1:00-5:00

The Whitaker Center for Science and Arts– adjacent to Hilton Towers

An afternoon of family fun, with exciting displays of live and specimen insects, crafts, and presentations. The program is free to the public as well as Meeting Registrants and their families. See amazing collections of dazzling insects. Parents and children will enjoy the “Dancin’ Bees”, the bug eaters, insect-inspired art, and can cheer on the cockroach races. Insect collections, live bugs and all other exhibits will be on display for the entire program. Scheduled events are as follows:

- 1:30 Pinning and Preserving Insects. The Bug Patrol
 - 2:00 “Dancin’ With the Honeybees” Clifford Wright-Sunflower
 - 3:00 “Live Furry, Feathery, and Scaly Bug Eaters” Michele Bassler,
Academy of Natural Sciences, Philadelphia
 - 3:45 “It’s a Butterfly!!” craft by Susan Whitney, University of Delaware
 - 4:00 “Dancin’ With the Honeybees” Clifford Wright-Sunflower
-

ESA Eastern Branch Executive Committee

1:00 - 5:00

Bridgeport Board

Welcome Reception

5:30 – 7:00

Gettysburg/Lancaster

Light fare and conversation. View posters and visit Corporate Sponsors’ exhibits.



Sunday afternoon and evening

Student Networking and Pizza

7:00 – 9:00

Penn-Harris

Convener: Susan Whitney, University of Delaware

Informal presentations and discussion with entomologists and plant pathologists from a variety of careers: government, industry, extension, teaching, and research. Tips on resume writing and interviewing. What kinds of jobs can we expect to be available in the next few years? How can you prepare yourself for life after graduate school?

Workshop: Recently Introduced and Potential Pests in the Northeastern United States

7:30 - 9:30

New Governor Board

Insect Detection Evaluation and Prediction Committee

Donna Ellis

Department of Plant Science
University of Connecticut

This informal workshop provides an opportunity for entomologists to see exotic pests that are either new to the Northeast region, or have the potential to spread into this area. Members of the IDEP Committee will bring specimens of pests including the following: brown marmorated stink bug, armored scale, brown garden snail, boll weevil, leek moth, soybean aphid, exotic bark beetles, viburnum leaf beetle, lily leaf beetle, purple loosestrife, giant hogweed, and mile-a-minute weed. Microscopes will be set up, so stop by some time during the session and visit our exotic pest show-and-tell.

Informal Conference: Wireworm Management

7:30 – 9:30

Leland Board

Co-Organizers:

Joe Ingerson-Mahar
Vegetable IPM Coordinator
Rutgers University

Joanne Whalen
IPM Specialist
University of Delaware

The conference will be a round table discussion of the problems and successes in wireworm management in field and vegetable crops in the Northeast.



Sunday afternoon and evening

Poster Displays (on display for entire meeting)

Gettysburg/Lancaster

- 1.* **Lepidopteran pests and their control on fall cabbage in eastern Virginia**
Robert J. Cordero¹, Thomas P. Kuhar², John Speese³ and Edwin E. Lewis⁴,
^{1&4}Department Entomology, Virginia Tech, Blacksburg, VA, ^{2&3}Eastern Shore
Agriculture Research & Extension Center, Virginia Tech, Painter, VA
2. **Three year survey of European corn borer injury in non-Bt cornfields of western Virginia**
R. R. Youngman and C. A. Laub, Department of Entomology, Virginia Tech,
Blacksburg, VA
3. **Refining Varroa mite treatment threshold**
Josh Hubner and Dewey M. Caron, Department Entomology & Applied Ecology,
University of Delaware, Newark, DE
4. **Pollinator preference for native vs. introduced flowering plants in northern Delaware**
Susanna Wingard and Dewey M. Caron, Department of Entomology & Applied
Ecology, University of Delaware, Newark, DE
- 5.* **Field and wind tunnel studies toward the development of attract and kill technology for the Oriental fruit moth, *Grapholita molesta* (Lepidoptera: Tortricidae)**
Adriane Orsatti¹, Maya Evenden² and John McLaughlin³, ^{1&2}Department of
Biology, West Chester University, West Chester, PA, ³IPM Tech, Raleigh, NC
6. **Assessing the mating status of male obliquebanded leafrollers *Choristoneura rosaceana* (Lepidoptera: Tortricidae), by dissection of male and female moths**
Maya Evenden¹, Lila Delury², Gary Judd³ and John H. Borden⁴, ¹Department of
Biology, West Chester University, West Chester, PA, ^{2&3}Agriculture and Agri-
Food Canada, PAFC, Summerland, BC, ⁴Department of Biological Sciences,
Simon Fraser University, Burnaby, BC
- 7.* **The effect of hexaflumuron treated bait on 3 genera of protozoa found in the *Reticulitermes* spp. hindgut**
Rachael C. Perrott and Dini M. Miller, Department of Entomology, Virginia
Tech, Blacksburg, VA



Sunday afternoon and evening

8. **Trap evaluation for monitoring stink bugs in apple and peach orchards**
Henry W. Hogmire¹ and Tracy C. Leskey², ¹Tree Fruit Research and Education Center, West Virginia University, Kearneysville, WV, ²Appalachian Fruit Research Station, USDA-ARS, Kearneysville, WV
9. **Field release of *Tetrastichus setifer*, a parasitoid of *Lilioceris lili***
Lisa A. Tewksbury, Marion S. Gold and Richard A. Casagrande, Department of Plant Sciences, University of Rhode Island, Kingston, RI
10. **Effect of imidacloprid application on natural enemy communities in landscapes**
Robert G. Ahern, Ada Szczepaniec, Steven R. Davis, and Michael J. Raupp, Plant Sciences, University of Maryland, College Park, MD
- 11.* **Influence of flowering plants on arthropod taxa and abundance**
Stacey R. Bealmear¹, Paula M. Shresbury² and Joseph Patt³, ^{1&2}Plant Science, University of Maryland, College Park, MD, ³Delmont, NJ
12. **Using permethrin to extract Asian ambrosia beetle, *Xylosandrus crassiusculus* (Motschulsky) (Coleoptera: Scolytidae) from nursery-grown trees**
Peter B. Schultz¹, Marie S. Dills², Wendy H. Mitchell³ and Geri Cashion⁴
^{1&2}AREC, Virginia Tech, Virginia Beach, VA, ³Virginia Department of Agriculture and Consumer Services, Richmond, VA, ⁴FMC Specialty Products, Palm Harbor, FL
13. **Evaluation of systemic insecticides for control of boxwood leafminer**
Stanton Gill¹ and Paula Shrewsbury², ¹University of Maryland, Ellicott City, MD, ²Plant Sciences, University of Maryland, College Park, MD
- 14.* **Simulated herbivory by *Homorosoma chinensis*, a potential biological control agent of mile-a-minute weed**
Kevin R. Harkins and Judith A. Hough-Goldstein, Department of Entomology & Applied Ecology, University of Delaware, Newark, DE
- 15.* **Evolution of the southern pine beetle legacy simulation model “SPMMODEL” using genetic algorithms**
Sarah M. Satterlee¹, Nicholas D. Stone² and Frederick M. Stephen³, ¹Virginia Tech, Blacksburg, VA, ²Alexandria, VA, ³Department of Entomology, University of Arkansas, Fayetteville, AR



Sunday afternoon and evening

- 16.* **The role of imidacloprid on mite outbreaks on landscape plants**
Adrianna Szczepaniec and Michael J. Raupp, Department of Entomology,
University of Maryland, College Park, MD
17. **Cucurbitacin-based baits and traps for *Diabrotica* and *Acalymma* adults (Coleoptera: Chrysomelidae)**
Donald C. Weber and Michael M. Athanas, Insect Biocontrol Lab, USDA-ARS,
Beltsville, MD
18. **Impact of the host cadaver on survival and infectivity of entomopathogenic nematodes (Rhabditida: Steinernematidae and Heterorhabditidae) under desiccating conditions**
Enrique E. Perez¹, Edwin E. Lewis² and David I. Shapiro-Ilan³, ^{1&2}Department of
Entomology, Virginia Tech, Blacksburg, VA, ³SE Fruit and Tree Nut Research
Laboratory, USDA-ARS, Byron, GA
- 19.* **Cytochrome P450 involvement in insecticide toxicity in salt marsh mosquito *Ochlerotatus sollicitans* (Walker)**
Shaoming Huang and Lena B. Brattsten, Rutgers University, New Brunswick, NJ
20. **The immatures of the treehopper genus *Glossonotus* Butler (Hemiptera: Membracidae)**
Robert L. Snyder and Thomas K. Wood, Department of Entomology and Applied
Ecology, University of Delaware, Newark, DE
21. **Effects of Bt sweet corn pollen on the foraging behavior of honey bees**
Galen P. Dively and Adam Oaks, Department of Entomology, University of
Maryland, College Park, PA
22. **Field evaluation of organic insecticides for control of major pests on selected field and vegetable crops**
Terry W. Patton, Galen P. Dively and Amy Miller, Department of Entomology,
University of Maryland, College Park, MD
23. **Building IPM partnerships in Maryland**
Carol A. Holko¹ and Sandra Sardanelli², ¹Maryland Department of Agriculture,
Annapolis, MD, ²University of Maryland, College Park, MD



Sunday afternoon and evening

24. **An unwanted visitor in Acadia National Park**
Eleanor Groden, Francis A. Drummond and Shicai Yan, Department of Biological Sciences, University of Maine, Orono, ME
- 25.* **The impact of scavenging insects on disease persistence in Colorado potato beetle (*Leptinotarsa decemlineata*) populations**
Karen L. Coluzzi, Eleanor Groden and Francis A. Drummond, Department of Entomology, University of Maine, Orono, ME
- 26* **Population dynamics of *Thripinema nicklewoodi* transmission in *Frankliniella occidentalis* in caged impatiens**
Un Taek Lim and Roy G. Van Driesche, Department of Entomology, University of Massachusetts, Amherst, MA
27. **Alternative fungicides and biofungicides for managing white mold on lima bean**
Kathryne L. Everts¹, Alyssa A. Collins², and David K. Armentrout³, ^{1&3}University of Maryland, Salisbury, MD, ²University of Delaware, Newark, DE
28. **Lacewings and their associated hymenopterous parasitoids observed in two peach arthropod management programs in New Jersey**
Atanas Atanassov and Peter W. Shearer, Rutgers Agricultural Research & Extension Center, Rutgers University, Bridgeton, NJ

* **Student Poster Competition**



Monday morning

Registration
Main Floor

8:00 – 5:00

Meeting Introduction and Panel Discussion
Carlisle

8:00 – 9:15

8:00 Comments by the Presidents
Susan Whitney, President, Eastern Branch ESA
David Clement, President, Potomac Division APS

8:15 ***Academic Department Identity: Maneuvering the Paradigm Shift***

Moderator: Michael Raupp, University of Maryland and President-Elect,
Eastern Branch ESA
Entomology Departments: Timothy Mack, Virginia Tech
Plant Pathology Departments: tba
Industry view: Paul Rensner, FMC Corporation
Government view: tba

Departments of Entomology nation-wide are being dissolved and merged into other life sciences. The numbers of plant pathologists are declining. How will this impact the work force in industry, government, and academia? Who will train the professionals of tomorrow?

Informal Conference, Panel Discussion continued
Penn Harris

9:30-12:00

Moderator: Michael Raupp

Additional speakers tbd



Monday morning

Symposium: Those Miserable Little Suckers: A Look at Some Aphids, Scales, and Leafhoppers Causing Problems in the Northeast **9:30 – 12:30**

Carlisle

Co-Organizers and Co-Moderators:

Donna R. Ellis
Department of Plant Science
University of Connecticut

James F. Stimmel
Bureau of Plant Industry
PA Department of Agriculture

9:30 **Welcome and introduction**
Donna Ellis

9:35 **Pierce's disease in Virginia: likely vectors of *Xylella fastidiosa***
Douglas G. Pfeiffer, Department of Entomology, Virginia Tech, Blacksburg, VA

9:55 **Invasive species of scale insects in the U.S.**
Douglass R. Miller¹, Gary L. Miller¹ and John A. Davidson², ¹Systematic Entomology Laboratory, ARS, Beltsville, MD, ²Department of Entomology, University of MD, College Park, MD

10:15 **Management of the citrus mealybug, *Plannococcus citri* (Homoptera: Pseudococcidae), in propagation and production greenhouse environments**
D. Casey Sclar¹, Michael Leventry¹ and Jessica Bryson², ¹Longwood Gardens, Kennett Square, PA and ²Northcreek Nursery, Landenberg, PA

10:35 **The elongate hemlock scale mess in Pennsylvania**
James. F. Stimmel, Bureau of Plant Industry, PA Department of Agriculture, Harrisburg, PA

10:55 **Soybean aphid distribution and pest status**
Eric R. Day¹ and Ames Herbert², ¹Department of Entomology, VA Tech, Blacksburg, VA, ²Department of Entomology, Tidewater AREC, Suffolk, VA

11:15 **Movement of aphids and incidence of viruses in snap bean fields**
Brian Nault¹, D. Shah² and H. Dillard², ¹Department of Entomology, Cornell University, NYSAES, Geneva, NY, ²Department of Plant Pathology, Cornell University, NYSAES, Geneva, NY



Monday morning

11:35 Field monitoring for potential plum pox virus aphid vectors in Pennsylvania stone fruit orchards

Greg Krawczyk¹, James F. Stimmel² and Larry A. Hull¹, ¹Department of Entomology, Penn State University, Biglerville, PA, ²Bureau of Plant Industry, PA Department of Agriculture, Harrisburg, PA

11:55 Studies on aphid transmission of plum pox virus

Frederick Gildow, Department of Plant Pathology, Penn State University, University Park, PA

12:15 Prospects for biological control of hemlock woolly adelgid

Carole A. S-J. Cheah, The Connecticut Agricultural Experiment Station, c/o USDA Forest Service, Northeastern Research Station, Hamden, CT

Submitted Papers

9:30 – 12:05

York

Moderator: Thomas Kuhar
Department of Entomology
Virginia Tech

9:30 Suitability of several species of viburnum as hosts for viburnum leaf beetle

Maria Derval C. Diaz¹, Paul A. Weston² and Gaylord Desurmont³, ^{1&2}Cornell University, Ithaca, NY, ³ENESAD, Dijon, France

9:42 Probing host resistance to viburnum leaf beetle: evaluating a family of hybrid viburnums

Paul A. Weston¹, Maria D. Diaz², Josselin Scherr³, Brent H. McCown⁴ and William A. Hoch⁵, ^{1&2}Department of Entomology, Cornell University, Ithaca, NY, ³ENESAD, Dijon, France, ^{4&5}Department of Horticulture, University of Wisconsin, Madison, WI

9:54 Revisiting paternal care in the assassin bug, *Atopozelus pallens* (Heteroptera: Reduviidae)

Douglas W. Tallamy and Evelyn Walsh, Entomology and Wildlife Ecology, University of Delaware, Newark, DE



Monday morning

- 10:06 **Parasitism of the tarnished plant bug (TPB) by an introduced wasp (*Peristenus digoneutia*) and TPB damage to strawberries on an organic farm**
William H. Day, Beneficial Insects Research Laboratory, USDA-ARS-BIIR, Newark, DE
- 10:18 **Retrograde pest management: obstacles and prospects for implementing non-OP peach arthropod management programs**
Peter W. Shearer and Atanas Atanassov, Rutgers Agricultural Research & Extension Center, Bridgeton, NJ
- 10:30 **Biological control of European corn borer in peppers**
Thomas P. Kuhar¹, Ramesh C. Yettella Venkata², Michael P. Hoffmann³, Shelby J. Fleischer⁴ and Carlyle Brewster⁵, ¹Department of Entomology, Eastern Shore AREC, Painter, VA, ^{2&5}Department of Entomology, Virginia Tech, Blacksburg, VA, ³Department of Entomology, Cornell University, Ithaca, NY, ⁴Department of Entomology, Penn State University, University Park, PA
- 10:42 **Effect of the gypsy moth nucleopolyhedrovirus (LdMNPV) on the activities of homologous and heterologous baculoviruses against the beet armyworm and fall armyworm (Lepidoptera: Noctuidae)**
Martin Shapiro, USDA-ARS-IBL, Beltsville MD
- 10:54 **BREAK**
- 11:15 **Quantifying the condition dependence of copulatory antenation of the spotted cucumber beetle, *Diabrotica undecimpunctata howardi* (Coleoptera: Chrysomelidae)**
Bradford E. Powell and Douglas W. Tallamy, Department Entomology and Applied Ecology, University of Delaware, Newark, DE
- 11:27 **Potato varietal responses to potato leafhopper injury: are treatment thresholds unrealistic?**
Galen P. Dively, Mike Embrey, Amy Miller and Terry W. Patton, Department of Entomology, University of Maryland, College Park, MD



Monday morning

11:39 Effects of rubidium enrichment on morphometry and development of adult *Grapholita molesta* (Lepidoptera: Tortricidae)

Nicolas H. Ellis¹ and Larry A. Hull², Department of Entomology, Penn State University, College Park, PA¹, Penn State Fruit Research and Extension Center, Biglerville, PA²

11:51 Potential of dairy farms in the Northeast as breeding sites for vectors of West Nile Virus

Phillip E. Kaufman, Laura Harrington, Keith Waldron and Donald Rutz, Department of Entomology, Cornell University, Ithaca, NY



Monday afternoon

Graduate Student Paper Competition

1:10-4:50

Carlisle

Moderator: Dini Miller
Department of Entomology
Virginia Tech

1:10 **Instructions to Speakers**

1:15 **Extrapolating from the observed species richness in a taxonomic revision to the “true” species diversity – examples from the Asilidae (Diptera)**

Torsten Dikow¹ and Rudolf Meier², ¹Department of Entomology, Cornell University, Ithaca, NY, ²University of Copenhagen, Copenhagen, Denmark

1:27 **Effects of forest management on click beetle (Coleoptera: Elateridae) communities inhabiting soil and coarse woody debris in Maine**

Shelly L. Thomas and Steven A. Woods, University of Maine, Orono, ME

1:39 **Differential resistance of native and exotic *Phragmites australis* to insect herbivores**

Adam M. Lambert and Richard A. Casagrande, Department of Plant Sciences, University of Rhode Island, Kingston, RI

1:51 **Impact of habitat modification on arthropod dynamics in an ornamental nursery system**

Rebecca A. Waterworth¹, Paula M. Shrewsbury², Stanton Gill³, and Colin D. Stewart⁴, ^{1&2}University of Maryland, College Park, MD, ³Maryland Research & Education Center, Ellicott City, MD, ⁴Pest Management Office, University of Maine, Orono, ME

2:03 **Interspecific competition, via induced resistance, between the potato leafhopper and the Colorado potato beetle**

Maisie E. Lynch, Galen P. Dively and Robert F. Denno, Plant Sciences, University of Maryland, College Park, MD

2:15 **Characterizing the effects of forest gaps on parasitic Hymenoptera**

Kristopher J. Abell and Stephen A. Woods, University of Maine, Orono, ME

2:27 **Screening for trap crops for diamondback moth in cabbage**

Francisco R. Badenes-Perez, Anthony M. Shelton and Brian A. Nault, Department of Entomology, Cornell University, Geneva, NY



Monday afternoon

- 2:39 **Control of wireworms in potato with entomopathogenic nematodes**
Vonny M. Barlow¹, Thomas P. Kuhar² and Edwin E. Lewis³, ^{1&3}Department of Entomology, Virginia Tech, Blacksburg, VA, ²Department of Entomology, Virginia Tech, Painter, VA
- 2:51 **The effects of competing food sources on *Reticulitermes* spp. consumption of hexaflumuron treated bait**
Rachael C. Perrott, Dini M. Miller and Donald E. Mullins, Department of Entomology, Virginia Tech, Blacksburg, VA
- 3:02 **BREAK**
- 3:15 **Patterns of artificial nest site colonization and colony movement by the invasive European fire ant (*Myrmica rubra*) in Acadia National Park**
Jeff Garnas, Eleanor Groden and Frank Drummond, Biological Sciences, University of Maine, Orono, ME
- 3:27 **The short and long-term effects of herbicide application in western Maine clearcuts on the diversity and abundance of ants (*Hymenoptera: Formicidae*)**
Kerry F. Lough, Francis Drummond and Stephen Woods, University of Maine, Orono, ME
- 3:39 **Evaluating the efficacy and residual toxicity of three acaricides on *Tetranychus urticae* Koch (Tetranychidae: Acari)**
Janet L. Ashley¹, D. Ames Herbert² and Edwin E. Lewis³, ^{1&3}Department of Entomology, Virginia Tech, Blacksburg, VA, ²Tidewater AREC, Suffolk, VA
- 3:51 **Possible suppression of potato leafhopper feeding by Apogee®: implications for fire blight control on apple**
Kathleen P. Leahy¹, Duane W. Greene², Wesley R. Autio³, John N. Norelli⁴ and Tracy C. Leskey⁵, ^{1,2,3}Department of Plant & Soil Sciences, University of Massachusetts, Amherst, MA, ^{4&5}Appalachian Fruit Research Station, USDA-ARS, Kearneysville, WV



Monday afternoon

- 4:02 **Impact of chemicals on management of spinach white rust and insect communities**
Mbisin Diagne¹, Kathryne L. Everts² and Galen P. Dively³, ¹Department of Natural Resource Science and Landscape Architecture, University of Maryland, College Park, MD, ²Department of Natural Resource Science and Landscape Architecture, University of Maryland, Salisbury, MD, ³Entomology Department, University of Maryland, College Park, MD
- 4:14 **Biological diversity of Hutcheson resistance-breaking field isolates of soybean mosaic virus**
Amer C. Fayad and Sue A. Tolin, PPWS, Virginia Tech, Blacksburg, VA
- 4:26 **Surveillance systems for plant diseases and pests**
Peter M. Sforza, Virginia Tech, Blacksburg, VA
- 4:38 **Comparison of pepper anthracnose isolates using Biolog**
S.A. Alexander¹ and E.L. Stromberg², ¹Department Plant Pathology, Physiology & Weed Science, Virginia Polytechnic Institute & State University, Painter, VA, ²Plant Pathology, Physiology, and Weed Science, Virginia Polytechnic Institute & State University, Blacksburg, VA

Business Meeting, Eastern Branch, ESA
Penn Harris

5:00 – 6:00

Business Meeting, Potomac Division, APS
Harrisburger

5:00 – 6:00

Social Gathering & Cash Bar
Gettysburg/ Lancaster

6:00 – 6:30



Monday afternoon

Banquet and Presentation of Awards

6:30 – 9:00

Ballrooms 1-3

- ✿ Welcome and Introduction – Susan Whitney and David Clement
- ✿ Eastern Branch ESA Awards Presentations
 - ESA Recognition Award For Excellence in Entomology
 - ESA Distinguished Achievement Award in Teaching
 - L. O. Howard Award for Distinguished Achievement
 - Herb Streu Meritorious Service Award
 - John Henry Comstock Award
 - Asa Fitch Award
- ✿ Potomac Division APS Awards Presentations – David Clement
- ✿ Student paper competition award winners
- ✿ Banquet Speaker: “Insects in the Civil War”
Gary Miller, Systematic Entomology Lab, USDA, Beltsville

Linnean Games

Timothy Mack

9:00 - end

Penn Harris

DeBary Bowl

APS Host

Harrisburger



Tuesday morning

Registration

Main Floor

8:00 – 5:00

Symposium – New Invasive Species Possibilities for Biological Control

8:00 – 12:00

Carlisle

Organizers/Moderators:

Roger W. Fuester

USDA-ARS

Beneficial Insects Introduction Research

Newark, DE

Richard A. Casagrande

Department Plant Sciences

University of Rhode Island

Kingston, RI

8:00 **Introductory remarks**

Roger Fuester

8:05 **Biological control of soybean aphid**

Roger Fuester and Keith Hopper, USDA-ARS, Beneficial Insects Introduction Research, Newark, DE

Found in the Midwest in 2000, the soybean aphid, *Aphis glycines*, is the first major insect pest of soybeans from the Far East to invade the U.S. Exploration for natural enemies is in progress in China and Japan, and several natural enemies are under study in quarantine.

8:25 **Lily leaf beetle**

Richard Casagrande, M. Gold, and L. Tewksbury. Department of Plant Sciences, University of Rhode Island, Kingston, RI

The lily leaf beetle, *Lilioceris lili*, first found in Montreal in 1943 and Boston in 1992, has spread throughout New England and 4 Canadian provinces. It has a parasitoid complex similar to the cereal leaf beetle (*Oulema melanopus*), another European criocerid under successful biological control. We have apparently established *Tetrastichus setifer* near Boston and are evaluating other candidates for release.



Tuesday morning

8:45 **Potential for biological control of the Asian longhorned beetle (ALB)**

Anoplophora glabripennis

Michael T. Smith and Roger Fuester, USDA-ARS, Beneficial Insects Introduction Research, Newark, DE; Franck Hérard, USDA-ARS, European Biological Control Lab, Montpellier, France; Ann Hajek and Thomas DuBois, Cornell University, Ithaca, NY

The Asian longhorned beetle, an accidentally introduced forest and shade tree pest, is the object of an interagency eradication program in New York, New Jersey, and Illinois. Possibilities for using parasitoids and pathogens in this effort will be discussed.

9:15 **Status of *Halyomorpha halys*, the brown marmorated stink bug, a new invasive insect in Allentown, PA**

Gary Bernon, USDA-APHIS-CPHST, Otis Air Base, MA; Karen M. Bernhard, Lehigh County Agriculture Center, Allentown, PA ; James F. Stimmel, Pennsylvania Department of Agriculture, Harrisburg, PA; and E. Richard Hoebeke, Cornell University, Ithaca, NY

Halyomorpha halys (Heteroptera: Pentatomidae), was reported from Allentown, PA in early October, 2001. Preliminary surveys indicated that populations were still limited to the immediate area, including individuals from NJ. Although reported to damage soybeans and apples in indigenous habitats (Japan, Korea & China), no such damage has been observed in PA.

9:25 **Biological control of mile-a-minute weed update: *Homorosoma chinensis* (Coleoptera: Curculionidae) host specificity and feeding and oviposition preferences on *Polygonum perfoliatum* (Polygonales: Polygonaceae)**

Keith Colpetzer and Judy Hough-Goldstein, Department Entomology and Applied Ecology, University of Delaware, Newark, DE

In no-choice tests, the Chinese weevil, *Homorosoma chinensis*, failed to oviposit or develop on non-target plant species tested in quarantine, and is apparently specific to mile-a-minute weed, *Polygonum perfoliatum*. Female *H. chinensis* preferentially fed and oviposited on *P. perfoliatum* capitula, which may reduce *P. perfoliatum* seed production and make it an effective biological control agent.



Tuesday morning

9:45 **Swallow-wort**

Jennifer Dacey and Richard Casagrande, Department Plant Sciences, University of Rhode Island, Kingston, RI

Black swallowwort (*Vincetoxicum nigrum*) and pale swallowwort (*V. rostratum*), of Eurasian origin, Swallow-worts have spread throughout the northeastern USA and where they are becoming important weeds. They also adversely impact Monarch butterflies which readily oviposit on these plants, but their immatures do not survive. Swallowworts are not a problem in Europe where there are numerous insect herbivores.

10:05 **BREAK**

10:20 **Phragmites**

Adam Lambert and Richard Casagrande, Department of Plant Sciences, University of Rhode Island, Kingston, RI

Phragmites australis populations in North America consist of native and introduced biotypes with exotics largely displacing native populations in the northeast. We are examining the impact of insect herbivores on native and exotic *P. australis* in the northeastern USA and considering the potential for European natural enemies for a program of biotype-specific biological control.

10:40 **Sudden oak death**

Larry Englander, Department of Plant Sciences, University of Rhode Island, Kingston, RI

A lethal disease, caused by a new species of *Phytophthora*, has recently severely impacted certain California oaks. The origin of this new pathogen is unknown, presumably exotic. Some native and ornamental oaks growing in various regions of the USA are potentially at risk. Numerous understory native plants and ornamental cultivars may play a role in long-distance dissemination of this pathogen.

11:00 ***Puccinia lagenophorae*: invasive or beneficial?**

William Bruckart, USDA-ARS, Foreign Disease-Weed Science Research, Fort Detrick, MD

Puccinia lagenophorae, cause of a rust disease on common groundsel (*Senecio vulgaris*) may be useful for biological control in the U.S. During evaluations in containment, it was found in the U.S. (California and the East Coast). Is it damaging to groundsel and will it attack native *Senecio* spp.?



Tuesday morning

11:20 **Integration of biological control into the witches broom disease management strategy in cacao**

Prakash K. Hebbar¹, Masterfoods-USA, Hackettstown, NJ; Ron Collins², Soum Sanogo² and Jorge de Souza², USDA-ARS, ACSL, Beltsville, MD; Joao B. Costa, CEPLAC, Bahia, Brazil; Alan Pomella and Almirante Cacau, Bahia, Brazil

Since the discovery in Brazil of *Trichoderma stromaticum*, a mycoparasite on the witches broom (WB) pathogen (*Crinipellis pernicioso*) of cacao, efforts have been made to use this as a biocontrol agent. Evidence from Ecuador, Brazil and Colombia indicate that *T. stromaticum* is specific to the pathogen and is closely associated with cacao and related species. Field tests are currently in place in Brazil and Peru to test various methods to integrate biocontrol into the disease management strategy of the witches broom disease.

11:40 **Closing Remarks**

Richard Casagrande

Symposium – New Chemistry & Technology For Pest Management **8:00 – 12:00** *Harrisburger*

Organizers/Moderators

Paul Rensner
FMC Corporation
Princeton, NJ

James Steffel
LAB Services
Hamburg, PA

8:00 **Overview of new classes of chemistry for insect control**

Paul Rensner, FMC Corporation, Agricultural Products Group, Princeton, NJ

8:30 **Insecticidal activity in the oxadiazine chemistry**

Don Ganske, DuPont Agricultural Products, Winchester, VA

8:55 **Relative efficacy and uses of the neonicotinoid family of insecticides**

Galen Dively, Department of Entomology, University of Maryland, College Park, MD

9:20 **BREAK**



Tuesday morning

- 9:35 **Spinosad natural products for conventional and organic plant protection**
Brian Olson, Dow AgroScience LLC, Geneva, NY
- 10:00 **Lipid biosynthesis inhibitors – new chemistry for old problems**
Lamar Buckelew, Bayer CropScience, Research Triangle Park, NC
- 10:25 **Controlling insect pests of apple and peach without OP insecticides-
preparing for FQPA**
David Biddinger and Larry Hull, Department of Entomology, Penn State
University Fruit Research & Extension Center, Biglerville, PA
- 10:50 **Transgenic technologies of the future and their effect on pest management**
Carl Falco, DuPont Agricultural Products, Wilmington, DE
- 11:15 **Mode of action labeling for pesticides: A joint industry and regulatory
initiative**
Sharlene Matten, US Environmental Protection Agency, Biopesticides and
Pollution Prevention Division (7511C), Washington, DC
- 11:40 **Discussion**

Formal Conference – Northeast Regional Field Crops Insect Conference

8:00-10:30

York

Organizer/Moderator:
Joanne Whalen
IPM Specialist
University of Delaware

- 8:00 **Opening Comments**
Joanne Whalen



Tuesday morning

- 8:05 **Spatial and temporal aspects of Bt-corn technology's economic value to northeastern field crop farmers**
Dennis D. Calvin, Department of Entomology, Greg Roth and Bryan Dillehay, Department of Crop & Soil Sciences, Gretchen Kuldau and Jeffrey Hyde, Department of Plant Pathology, Delbert Voight, Regional Extension Specialist, Capital Region, Penn State University; John Losey, Department of Entomology, Cornell University; Robert Kratochvil, Department of Agronomy, University of Maryland; and Joseph Russo, ZedX, Inc, Bellefont, PA
- 8:20 **European corn borer: implications on Bt-resistance management**
Shannon L. Sked, Department of Entomology, Penn State University, State College, PA
- 8:40 **Lepidopterous field crop pests in 2002: are we in Dixie?**
D. Ames Herbert, Jr., Virginia Tech, Tidewater Agricultural Research and Extension Center, Suffolk, VA
- 9:00 **Performance of selected insecticidal seed treatments on corn in eastern Virginia**
R. R. Youngman and C. A. Laub, Department of Entomology, Virginia Tech, Blacksburg, VA
- 9:15 **Do filter strips affect grasshopper populations in soybeans?**
Kimberly Tarburton, Marty Spellman and Joanne Whalen, Department of Entomology, University of Delaware, Newark, DE
- 9:30 **Potato leafhopper resistant alfalfa varieties perform!**
Keith Waldron, NYS IPM Program, and Julie Hansen, Plant Breeding and Biometrics, Cornell University, Ithaca, NY
- 9:45 **Persistence of alfalfa stands: impact of insect pests**
Bill Lamp Department of Entomology, University of Maryland, College Park, MD
- 10:00 **Discussion of field crop insect pest problems in 2002 - State Reports**
-



Tuesday morning

APS Industry/Extension Updates
York

10:30-12:00

Coordinator/Moderator: David Clement

**Lunch with ESA National President, Z. B. Mayo and
ESA Executive Director, Paula Lettice**
Strawberry Arcade Food Court (adjacent to the Hilton)

12:15 – 1:30

Pick up something to eat and join us for conversation.

5K Run/Walk

12:15 – 1:30



Tuesday afternoon

Graduate Student Symposium – Friends or Enemies: Insect, Plant, and Fungi Relationships in Nature

1:30 – 5:00

York

Organizer/Moderator:
Mark Sarvary
Department of Entomology
NYSAES, Cornell University

- 1:30 **Opening Remarks**
Mark Sarvary
- 1:35 **Mismatch in elemental composition (C:N:P) between herbivorous insects and their host plants: consequences for performance**
Henry Comstock Award winner, Andrea Huberty, Department of Ecology and Evolutionary Biology, University of Rochester, NY
- 2:55 **I won't be with you in apple blossom time (oriental fruit moth mating disruption research: 2000-2002)**
Asa Fitch Award winner, Nicolas Ellis, Penn State University, State College, PA
- 2:15 **Entomopathogens, host insects, and the plants that mediate their interactions: tales from the greenhouse and beyond**
Todd Uguine, Department of Entomology, Cornell University, Ithaca, NY
- 2:35 **Suppression of grape powdery mildew by a tydeid mite (*Orthotydeus lambi*)**
Heather Melidossian, Department of Plant Pathology, NYSAES, Cornell University, Ithaca, NY
- 2:55 **Determining susceptibility of insects to fungal pathogens**
Ellen Klinger and Eleanor Groden, Department of Ecology and Environmental Sciences, University of Maine, Orono, ME
- 3:15 **BREAK**
- 3:25 **Does invasive honeysuckle trigger a novel mode of insect speciation in native *Rhagoletis*?**
Dietmar Schwarz, Katrina D. Shoemaker, Benjamin M. Matta and Bruce A. McPherson, Department of Entomology, Penn State University, State College, PA



Tuesday afternoon

- 3:45 **A host shift by swallowtail butterflies within the *Papilio machaon* species group: the role of plant chemistry**
Shannon Murphy, Department of Ecology and Evolutionary Biology, Cornell University, Ithaca, NY
- 4:05 **Pollinator visitation to native plants in the presence and absence of co-flowering invasive plants**
Anthony O'Neal¹, Constance Stubbs¹, Francis Drummond¹ and Howard Ginsberg^{2,3} ¹University of Maine, Orono, ME, ²University of Rhode Island, Kingston, RI, ³Patuxet Wildlife Research Center
- 4:25 **Exploring the role of habitat heterogeneity in the metapopulation dynamics of the forked fungus beetle, *Bolitotherus cornutus***
Carrie Schwarz, Department of Entomology, Penn State University, State College, PA
- 4:45 **Conclusions and discussion**

Symposium – Bacterial Leaf Scorch *Carlisle*

1:30 – 4:00

Organizer/Moderator
Jim Lashomb
Department of Entomology
Rutgers University

- 1:30 **Epidemiology of *Xylella* in NJ**
Anne Brooks Gould, Rutgers University
- 1:50 **Life history of *Xylella* in stressed plants**
Andrew McElrone, Duke University
- 2:10 **Bacterial leaf scorch hosts in Kentucky**
John R. Hartman, Department of Plant Pathology, University of Kentucky
Lexington, KY
- 2:30 **Incidence of bacterial leaf scorch in Maryland**
Robert Robaglia, Maryland Department of Agriculture



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|------|---|
| 2:50 | Leafhopper ecology in woody plants
Russ Mizell, University of Florida |
| 3:10 | BREAK |
| 3:30 | Insects carrying bacterial leaf scorch in Maryland
Joanne Bentz, US National Arboretum |
| 3:50 | Sampling methods for insects transmitting bacterial leaf scorch
Jim Lashomb, Rutgers University |

Symposium – Biosecurity: Protecting Agricultural **1:30 – 5:00**
Penn Harris **and Environmental Resources from Introduced Organisms**

Organizer/Moderator:
Charles Schwalbe
USDA-APHIS-Plant Protection Quarantine
Riverdale, MD

- | | |
|------|---|
| 1:30 | Introductory comments
Charles Schwalbe |
| 1:40 | A historical review of intentional introductions of organisms
Terry Wilson, USDA-APHIS Veterinary Services |
| 2:00 | The Department of Homeland Security's focus on agriculture and the environment
Mary Neal, Department of Homeland Security |
| 2:20 | Regulatory measures to enhance biosecurity
Mike Firko, USDA-APHIS Plant Protection and Quarantine |
| 2:40 | New initiatives for early detection of introduced pests
Rosemary Loria, Department of Plant Pathology, Cornell University, Ithaca, NY |
| 3:00 | BREAK |



Tuesday afternoon

- 3:20 **Building capacity responding to introduced plant pests**
Jeff Grode, USDA-APHIS Plant Protection and Quarantine
- 3:40 **Enhancing readiness for animal health emergencies**
Gary Weber, National Cattlemen's Beef Association
- 4:00 **Biosecurity initiatives in industry/private sector**
Invited, National Alliance of Independent Crop Consultants
- 4:20 **Protecting nonagricultural resources**
Invited, National Park Service
- 4:40 **Wrap-up**
Chuck Schwalbe

Submitted Papers

1:30 – 3:40

Harrisburger

Moderator:
Chris Bergh
Virginia Tech

- 1:30 **The effect of invasive alien plants on arthropod diversity and biomass**
Michael A. Cacciapaglia and Douglas W. Tallamy, Department of Entomology,
University of Delaware, Newark, DE
- 1:42 **Native insects do not adopt alien congeners as host plants**
Kristin Veenema and Douglas W. Tallamy, Entomology and Wildlife Ecology,
University of Delaware, Newark, DE
- 1:54 **Mating behavior of the dogwood borer: implications for rearing**
Tracy C Leskey¹, Christopher Bergh² and Alson H. Smith, Jr.³, ¹USDA-ARS,
Kearneysville, WV, ²Virginia Polytechnic Institute and State University,
Blacksburg, VA, ³AHS-AREC, Winchester VA
- 2:06 **Behavioral manipulation as the basis for future management strategies for dogwood borer**
J. Christopher Bergh¹ and Tracy C. Leskey², ¹AHS-AREC, Virginia Tech,
Winchester, VA, ²USDA-ARS ATFRS, Kearneysville, WV



Tuesday afternoon

2:18 **Comparison of Wolbachia from Massachusetts and New York populations of plum curculio using wsp gene analysis**

Xing, Zhang¹, Shirley Luckhart², Douglas G. Pfeiffer³, Ronald J. Prokopy⁴ and Art Agnello⁵, ^{1&3}Department of Entomology, Virginia Tech, Blacksburg, VA, ²Department of Biochemistry, Virginia Tech, Blacksburg, VA, ⁴Department of Entomology, University of Massachusetts, Amherst, MA, ⁵Department of Entomology, Cornell University, Geneva, NY

2:30 **Biological control of rosy apple aphid, *Dysaphis plantaginea***

Mark W. Brown¹ and Clarissa R. Mathews², ¹USDA, ARS, Kearneysville, WV, ²Department Entomology, University of Maryland, College Park, MD

2:42 **BREAK**

3:00 **Overwintering behavior of *Colletotrichum acutatum* in highbush blueberry**

Anne DeMarsay and Peter V. Oudemans, Department of Plant Biology and Pathology, Rutgers University, Chatsworth, NJ

3:15 **Three-dimensional computer animations for teaching, research, and extension in agriculture**

Peter M. Sforza, Virginia Tech, Blacksburg, VA

3:27 **Surveys and transmission trials of potential insect vectors of grapevine yellows in Virginia**

LeAnn Beanland, VA Tech AREC, Winchester, VA

Executive Committee Meeting

Bridgeport

4:00

Finis

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