

# **EASTERN BRANCH**

**ENTOMOLOGICAL SOCIETY OF AMERICA  
73rd ANNUAL MEETING**



*“Digital Tools in Teaching, Research and Extension”*

**MARCH 10-12, 2002  
CAROUSEL BEACHFRONT HOTEL AND SUITES  
OCEAN CITY, MD**

## Program Overview

<b>Sunday</b>			
	<b>Event</b>	<b>Time</b>	<b>Location</b>
<b>Afternoon</b>	Registration	1:00 – 5:00	The Plaza (inner courtyard)
	Executive Committee meeting	1:00 – 5:00	Rm 612
	Poster setup and display	1:00 -	Pennsylvania
<b>Evening</b>	Welcome Social	5:30 – 7:30	Pennsylvania
	Student networking roundtable	7:00 – 8:00	Delaware 1
	Exotic pest workshop	8:00 – 10:00	Delaware 2
	Small fruit workshop	8:00 – 10:00	Washington
<b>Monday</b>			
<b>Morning</b>	Registration	8:00 – 12:00	The Plaza (inner courtyard)
	Poster display	8:00 -	Pennsylvania
	Symposium: New challenges and approaches in structural and community pest control	8:30 – 11:45	Delaware 2
	Symposium: NE field crops insect conference	8:30 – 11:30	Washington
	Symposium: DNA technologies in entomological research	8:30 – 11:30	Delaware 1
<b>Noon</b>	Students meet with Executive committee and ESA President	12:00 – 1:00	Delaware 1
<b>Afternoon</b>	Student paper competition	1:00 – 2:45	Washington
	Submitted papers	2:45 – 4:50	Washington
	Symposium: Distributed education and technology	2:45 – 5:30	Delaware 1
<b>Evening</b>	Banquet and awards presentations	6:00 – 8:30	Maryland
	Linnaean games	8:30 – 10:00	Pennsylvania
<b>Tuesday</b>			
<b>Morning</b>	Town hall gathering and business meeting	7:30 – 8:30	Pennsylvania
	Poster display	8:00 -	Pennsylvania
	Symposium: Interplay of biocontrol and systematics	8:30 – 11:40	Washington
	Symposium: Info and geo technologies advancing population ecology and management	8:30 – 12:15	Delaware 1 & 2
<b>Noon</b>	5k Run / Walk	12:30 – 1:30	Meet in Plaza

<b>Event</b>		<b>Time</b>	<b>Location</b>
<b>Afternoon</b>	Symposium: Northeast working group on biological control: Natural enemy augmentation – recent Progress	1:30 – 5:00	Washington
	Symposium: Digital methods in extension	1:30 – 4:00	Delaware 1 & 2
	Executive committee	5:00 – 6:00	Rm 612

**Registration 1:00 – 5:00**

*The Plaza (inner courtyard)*

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**Executive Committee Meeting 1:00 – 5:00**

Rm 612

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**Welcome Social 5:30 – 7:00**

*Pennsylvania*

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**Student Networking Roundtable 7:00 – 8:00**

*Delaware 1*

Convener: Susan Whitney, University of Delaware, Newark, DE

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**Workshop: Recently Introduced and Potential Pests in the Northeastern U.S 8:00 – 10:00**

*Delaware 2*

Insect Detection Evaluation and Prediction Committee

Eric R. Day

Dept. of Entomology

VPI & SU

Blacksburg, VA

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 pest including: Soybean aphid, Viburnum Leaf Beetle, Asian Tiger Mosquito, Imported Red Fire Ant, *Noctuea pronuba*, Hemlock Woolly Adelgid, Cotton Boll Weevil, Lily Leaf Beetle, Exotic Bark Beetles, Browntail moth, Brown Garden Snail, and others. Microscopes will be set up, so stop by and sometime during the session and visit our "exotic pest show-and-tell."

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**Workshop: Small Fruit Entomology Workshop 8:00 – 10:00**

*Washington*

Sridhar Polavarapu

Blueberry and Cranberry Research and Extension Center

Rutgers University

Chatsworth, NJ

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**Poster Displays** (on display for entire meeting)

*Pennsylvania*

1. **Bulb Mite, *Rhizoglyphus robini* (Claparede) as a pest of onion in New York**  
Richard W. Straub and Peter J. Jentsch, Department of Entomology, Cornell University, Highland, NY
2. **Apple burrknot borers in New York revisited**  
David P. Kain<sup>1</sup>, Richard W. Straub<sup>2</sup> and Arthur M. Agnello<sup>1</sup>, <sup>1</sup>Department of Entomology, Cornell University, NYS Agricultural Experiment Station, Geneva, NY, <sup>2</sup>Department of Entomology, Cornell University, NYS Agricultural Experiment Station, Hudson Valley Laboratory, Highland, NY
3. **The effect of straw mulch on pests and beneficials in simulated conventional and pot-in-pot nurseries**  
Colin D. Stewart and Paula M. Shrewsbury, University of Maryland, Department of Entomology, College Park, MD
4. **Pilot mass-trapping of *Hoplia equina* (Coleoptera: Scarabeidae) using its newly-identified sex pheromone, 2-tetradecanone**  
Donald C. Weber<sup>1</sup>, Paul Robbins<sup>2</sup>, Aijun Zhang<sup>3</sup> and Anne Averill<sup>4</sup>, <sup>1</sup>USDA-ARS Insect Biocontrol Laboratory, BARC-West, Beltsville, MD, <sup>2</sup>Soil Insect Ecology Laboratory, Department of Entomology, NYSAES, Cornell University, Geneva, NY, <sup>3</sup>Chemicals Affecting Insect Behavior Laboratory, BARC-West, Beltsville, MD, <sup>4</sup>Department of Entomology, University of Massachusetts, Amherst, MA
5. **Synchrony of *Macrocentrus cingulum* (Hymenoptera: Braconidae) with its host, *Ostrinia nubilalis* Hubner (Lepidoptera: Crambidae) - implications of the effects of Bt corn on this interaction**  
Shannon Leif Sked and Dennis D. Calvin, Department of Entomology, Pennsylvania State University, University Park, PA
6. **Varroa mite sampling for IPM threshold decisions**  
J. Hubner and Dewey M. Caron, Department of Entomology & Applied Ecology, University of Delaware, Newark, DE
7. **Impact of peach extrafloral nectar on key biological characteristics of *Grapholita molesta***  
Atanas Atanassov and Peter W. Shearer, Rutgers Agricultural Research & Extension Center, Bridgeton, NJ
8. **Potency of the Diamondback moth nucleopolyhedrovirus and its enhancement with fluorescent brighteners**  
Robert R. Farrar Jr.<sup>1</sup>, Martin Shapiro<sup>1</sup>, A. H. McIntosh<sup>1</sup> and Merle Shepard<sup>2</sup>, <sup>1</sup>USDA-ARS, <sup>2</sup>Clemson University

9. **Biological control release and monitoring studies for an invasive species**  
Donna R. Ellis, Department of Plant Science Unit 4163, University of Connecticut, Storrs, CT
10. **Non-Target effects of Bt sweet corn on honey bees**  
Robyn I. Rose<sup>1</sup>, Galen P. Dively<sup>2</sup> and Jeffrey S. Pettis<sup>3</sup>, <sup>1</sup>Environmental Protection Agency, <sup>2</sup>University of Maryland at College Park, and <sup>3</sup>USDA/ARS
11. **Can systemic insecticide residues kill predatory bugs on landscape plants?**  
Adrianna Szczepaniec<sup>1</sup>, Michael Raupp<sup>1</sup> and Stanton Gill<sup>2</sup>, <sup>1</sup>Department of Entomology, University of Maryland, College Park, MD, <sup>2</sup>Central Maryland Research and Education Center, Ellicott City, MD
12. **Affects of temperature on the life history parameters of *Anoplophora glabripennis* (Coleoptera: Cerambycidae)**  
Melody A. Keena, Steve M. Ulanecki and Paul M. Moore, USDA Forest Service, Northeastern Research Station, Northeastern Center for Forest Health Research, Hamden, CT
13. **The Brown Marmorated Stink Bug, *Halyomorpha halys* (Stal) (Heteroptera: Pentatomidae): A polyphagous asian plant pest newly discovered in North America**  
E. Richard Hoebeke<sup>1</sup> and Karen M. Bernhard<sup>2</sup>, <sup>1</sup>Department of Entomology, Cornell University, Ithaca, NY, <sup>2</sup>Lehigh County Extension Office, Pennsylvania State University, Allentown, PA
14. **A hard look at soft scale invasions: Past and present**  
Gary L. Miller and Douglass R. Miller, Systematic Entomology Laboratory, ARS, USDA, Beltsville, MD
15. **The Rice Thrips, *Stenchaetothrips biformis* Bagnall (Thripidae: Thysanoptera), and its risk to U.S. Agriculture**  
Susan Broda, Thysanoptera Specialist, USDA, APHIS, PPQ, Baltimore, MD
16. **Image analysis of caterpillar feeding behavior**  
Marc Rowley<sup>1</sup>, Frank Hanson<sup>1</sup> and Joe Stitt<sup>2</sup>, <sup>1</sup>Department of Biological Sciences, University of Maryland, Baltimore County, Baltimore, MD, <sup>2</sup>Applied Research Laboratory, Pennsylvania State University, State College, PA
17. **Using low-cost digital photomicrography in an undergraduate aquatic entomology course**  
John R. Wallace and Larry N. Reinking, Department of Biology, Millersville University, Millersville, PA
- 18\*. **Distribution of natural enemies of *Euonymus* scale, *Unaspis euonymi* (Comstock.) (Homoptera: Diaspididae) in the state of New Jersey**

Deepak Matadha, George C. Hamilton and James H. Lashomb, Department of Entomology, Rutgers, New Brunswick, NJ

**19\*. Monitoring Obliquebanded leafroller parasitism in apple orchards and wild sites in New York**

Mark A. Sarvary, Harvey Reissig and Jan Nyrop, Department of Entomology, Cornell University, Geneva, NY

**20\*. A multiple regression technique for predicting white grub abundance in golf course turf**

William J. Dimock, Carlyle C. Brewster and Edwin E. Lewis, Department of Entomology, Virginia Tech, Blacksburg, VA

**21\*. A survey of the non-target effects of Imidacloprid on the arthropod community in a potato field**

Maisie E. Miller and Galen P. Dively, University of Maryland, College Park, MD

**22\*. Evaluation of arthropod diversity associated with native woody plants**

Miles D. Lepping and Paula M. Shrewsbury, University of Maryland, College Park, MD

**23\*. Survey of arthropod communities on Maryland golf courses**

Steve Frank and Paula Shrewsbury, Department of Entomology, University of Maryland, College Park, MD

**24\*. Mites and ticks: A virtual introduction**

Ethan C. Kane<sup>1</sup> and Ronald Ochoa<sup>2</sup>, <sup>1</sup>Department of Entomology, University of Maryland, College Park, MD, <sup>2</sup>Systematic Entomology Laboratory, USDA-ARS, Beltsville, MD

**25\*. Gender specific esterase activity in different life stages and ages of the oriental fruit moth *Grapholita molesta* (Busck)**

Jeon J. Hong, Lena B. Brattsten and Peter W. Shearer, Department of Entomology, Rutgers University, New Brunswick, NJ

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**Symposium: New Challenges and Approaches in Structural and Community Pest Control**  
*Delaware 2*

Organizers / Moderators  
Glen Holbrook and Nancy Ostiguy  
Department of Entomology  
Pennsylvania State University  
University Park, PA

8:30 **Opening Remarks** Glen Holbrook

8:35 **The evolving demand-side: IPM in schools in Pennsylvania**  
Ed Rajotte<sup>1</sup> Lyn Garling<sup>1</sup>, Ken Long<sup>2</sup> and Lee Bentz<sup>2</sup> <sup>1</sup>PAIPM and Department of Entomology, Pennsylvania State University, University Park, PA, <sup>2</sup>PAIPM and Pennsylvania Department of Agriculture, Harrisburg, PA

9:00 **New approaches to structural pest control**  
Chuck Silcox, Agricultural Division, Bayer Corporation, Perkasie, PA

9:25 **Initiatives in Navy entomology**  
Chris Harding, Environmental Protection Specialist, Navy Applied Biology, Department of the Navy, Lester, PA

9:50 **Cost and efficacy comparison of IPM strategies versus calendar-based insecticide applications for German cockroach control**  
Dini Miller, Department of Entomology, Virginia Polytechnic Institute, Blacksburg, VA

10:15 **BREAK**

10:25 **The state of cockroach control: How a good situation can turn bad**  
Glenn Holbrook, Department of Entomology, Pennsylvania State University, University Park, PA

10:50 **Social organization in subterranean termites: Insights from molecular markers**  
Ed Vargo, Department of Entomology, North Carolina State University, Raleigh, NC

11:15 **Sociality in new environments: Colony social organization and ecology in *Solenopsis invicta* and other pest ant species**  
Mark Mescher, Department of Biology, Pennsylvania State University, University Park, PA

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**Symposium: Northeast Field Crops Insect Conference**  
*Washington*

Organizer / Moderator  
 Galen Dively  
 Department of Entomology  
 University of Maryland  
 College Park, MD

- 8:30 **Review of nontarget effects of Imidacloprid with emphasis on the potato system**  
 M. Miller and Galen Dively, Department of Entomology, University of Maryland,  
 College Park, MD
- 8:45 **New seed treatments for field corn soil insect pests**  
 M. Spellman and J. Whalen, Department of Entomology and Applied Ecology,  
 University of Delaware, College of Ag and Natural Resources, Room 250 Townsend  
 Hall, Newark, DE
- 9:00 **Fall aphid management in wheat**  
 J. Whalen and M. Spellman, Department of Entomology and Applied Ecology,  
 University of Delaware, College of Ag and Natural Resources, Room 250 Townsend  
 Hall, Newark, DE
- 9:50 **Are mid-western soybean problems moving east? – A 2001 Virginia survey for  
 Soybean Aphid and Bean Pod Mottle virus**  
 D. A. Herbert, Jr.<sup>1</sup>, E. R. Day<sup>2</sup> and D. Tuckey<sup>3</sup>. VirginiaTech, <sup>1</sup>Tidewater Agric. Res. &  
 Ext. Ctr., Suffolk, VA, <sup>2</sup>Department of Entomology, Blacksburg, VA, <sup>3</sup>Virginia  
 Cooperative Extension, Middlesex Co. Extension Office, Saluda, VA
- 9:35 **BREAK**
- 9:45 **Evidence for tolerance in glandular-haired alfalfa: Effect of Potato Leafhopper on  
 photosynthesis**  
 W.O. Lamp and M. Nguyen, Department of Entomology, University of Maryland,  
 College Park, MD
- 10:00 **Biology and management of the Cereal Rust Mite on timothy**  
 Jessica Nelson, Terry Patton and Galen Dively, Department of Entomology, University of  
 Maryland, College Park, MD
- 10:15 **Multi-county survey results of European Corn Borer injury in non-Bt cornfields of  
 western Virginia**  
 R. R. Youngman, C. A. Laub and T. A. Dellinger, Virginia Tech, Department of  
 Entomology, Blacksburg, VA

10:30 **Influence of conservation tillage on insect pest populations on flue-cured tobacco**  
Paul J. Semtner and T. David Reed, Virginia Tech Southern, Piedmont AREC,  
Blackstone, VA

10:45 **Open discussion of field crop pest problems**

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**Symposium: DNA Technologies in Entomological Research- Graduate student symposium**  
*Delaware 1*

Moderator / Organizer  
Ellen G. Klinger  
5722 Deering Hall  
University of Maine  
Orono, ME

8:30 **Opening Remarks** Ellen Klinger

8:40 **From shovels to micropipettors: A field entomologist's perspective on molecular research methods**  
Theresa Dellinger, Department of Entomology, 216 Price Hall, Virginia Tech.  
Blacksburg, VA

9:10 ***Phyllophaga* and phylogenetics: examining intraspecific relationships using mtDNA**  
Paul Robbins, Cornell University, NYSAES, Department of Entomology Geneva, NY

9:50 **Nuclear markers in population genetics: Adaptive evolution of pea aphids**  
Joan West, University of Maryland, 11705 Cherry Grove Drive, North Potomac, MD

10:20 **BREAK**

10:35 **Shooting the RAPDs.... and other molecular pitfalls**  
Michele McClanan, Fruit Entomology, 205 C Price Hall, Blacksburg, VA

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**Students meet with Executive Committee and ESA President 12:00-1:00pm**

*Delaware 1*

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**Graduate Student Paper Competition**

*Washington*

Moderator / Organizer

Melody Keena

Northeastern Center For Forest Health Research

51 Mill Pond Road

Hamden, CT

1:00 **Asa Fitch award winner presentation**

1:15 **Improving monitoring and dormant spray management in the San Jose scale  
*Quadraspidiotus perniciosus* in almond orchards**

Francisco R. Badenes-Perez, Department of Entomology, Cornell University, Ithaca, N.Y

1:27 **Wolbachia and plum curculio, *Conotrachelus nenuphar* (Herbst)**

Michelle E. G. McClanan, Shirley Luckhart and Douglas G. Pfeiffer, Department of Entomology, Virginia Tech, Blacksburg, VA

1:39 **Response of natural enemies of the European Corn Borer to a buckwheat intercrop in corn**

Andrew H. Smith and Dale G. Bottrell, Department of Entomology, University of Maryland, College Park, MD

1:51 **What limits the population size of the saltmarsh planthopper *Delphacodes penedetecta*?**

Scott M. Ferrenberg and Robert F. Denno, Department of Entomology, University of Maryland, College Park, MD

2:03 **The effect of landscape mulches on the foraging patterns of subterranean termites (*Isoptera: Reticulitermes*)**

Catherine E. Long, Barbara L. Thorne, Nancy L. Breisch and Larry W. Douglass, University of Maryland, College Park, MD

2:15 **Susceptibility of adult Colorado potato beetle to the fungal entomopathogen *Beauveria bassian***

Ellen G. Klinger and Eleanor Groden, Department of Biological Sciences, University of Maine, Orono, ME

- 2:27 **The German cockroach as a carrier of *Salmonella***  
 Laura Yerges, Jenna Bartz, Annie Steed, Aidan Wilson and Glenn Holbrook, Department of Entomology, Pennsylvania State University, University Park, PA
- 2:39 **Aggression in *Myrmica rubra*, a noxious pest on the rise in New England**  
 David Bell<sup>1</sup>, Jessica Felse<sup>1</sup>, Mark Mescher<sup>2</sup> and Glenn Holbrook<sup>1</sup>, <sup>1</sup>Department of Entomology, Pennsylvania State University, University Park, PA, <sup>2</sup>Department of Biology, Pennsylvania State University, University Park, PA

### Submitted Paper Session

Washington

Moderator

- 2:45 **New tactics for controlling cucumber beetles on cucurbits**  
 John Speese III, Virginia Tech, Eastern Shore AREC, 33446 Research Drive, Painter, VA
- 2:57 **Large scale house fly trapping in New York poultry facilities**  
 P. E. Kaufman and D. A. Rutz, Department of Entomology, Cornell University, Ithaca, NY
- 3:09 **Syrphid complex associated with the woolly apple aphid in Virginia orchards**  
 Brent D. Short and J. Christopher Bergh, Department of Entomology, Virginia Tech, Blacksburg, VA
- 3:21 **Reduced rates of Imidacloprid and Carbaryl in managing Hudson Valley leafhopper complex**  
 Peter J. Jentsch and Richard W. Straub, Department of Entomology, Cornell University, Highland, NY
- 3:33 **Phenology of plum curculio and varietal susceptibility**  
 Sridhar Polavarapu, Blueberry and Cranberry Research and Extension Center, Rutgers University, Chatsworth, NJ
- 3:45 **Preliminary evidence for bivoltinism of dogwood borer in apple in the mid-Atlantic region**  
 J. Christopher Bergh<sup>1</sup>, Tracy C. Leskey<sup>2</sup> and Starker. E. Wright<sup>2</sup>, <sup>1</sup>Virginia Tech AHS AREC, Winchester, VA, <sup>2</sup>USDA Appalachian Tree Fruit Research Station, Kearneysville, WV
- 3:57 **Diuretics as enhancers of the gypsy moth, *Lymantria dispar*, (Lepidoptera: Lymantriidae) nucleopolyhedrovirus**  
 Martin Shapiro, USDA-ARS Insect Biocontrol Laboratory, Beltsville, MD
- 4:09 **Effects of environmental chemicals on subterranean termite foraging activity (Isoptera: Recitulitermies)**

Lois E. Swoboda and Dini Miller, Department of Entomology, Virginia Tech,  
Blacksburg, VA

4:21 **Mayflies of headwater streams: Analysis of geographic isolation and gene flow**

Laurie C. Alexander, William O. Lamp and David J. Hawthorne, Department of  
Entomology, University of Maryland, College Park, MD

4:33 **The distribution and diversity of spider populations: Investigations in lowbush  
blueberry agroecosystems in Maine**

Darlene Maloney, Department of Entomology, University of Maine, Orono, ME

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**Symposium: Distributed Education and Technology**

*Delaware 1*

Organizer / Moderator

John Stoffolano

Department of Entomology

University of Massachusetts

Amherst, MA

2:30 **Opening Remarks** John Stoffolano

2:35 **Best practices in a large enrollment undergraduate entomology course taught online**

Tim Mack, Professor and Head, Department of Entomology, and Assistant Dean for  
Information Technology, College of Agriculture and Life Sciences 216 Price Hall,  
Virginia Tech, Blacksburg, VA

3:16 **Systematic integration of online assessment into the undergraduate curriculum**

Dave Hart, Executive Director, Center for Computer-Based Instructional Technology and  
Center for Knowledge Communication, Computer Science Department, University of  
Massachusetts, Box 34610, Amherst, MA

3:57 **Break**

4:07 **Using diverse multimedia to deliver a distance learning course to teachers-the best  
way to deliver different types of course content**

John Stoffolano, Department of Entomology, University of Massachusetts, Amherst, MA

4:48 **Video production techniques for teaching and extension delivery**

Jim Lashomb<sup>1</sup> and George Hamilton<sup>2</sup>, <sup>1</sup>Department of Entomology, Rutgers University,  
Blake Hall 92-Lipman Dr., New Brunswick, NJ, <sup>2</sup>Pest Management Office, Rutgers  
University, Blake Hall 93-Lipman Drive, New Brunswick, NJ

**Banquet and presentation of ESA awards 6:00-8:30pm**

*Maryland*

**Linnaean games 8:30-10:00pm**

*Pennsylvania*

**Town hall gathering and business meeting 7:30 - 8:30 am**  
*Pennsylvania*

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**Symposium: Interplay of Biocontrol and Systematics: Effects on Non-target Organisms and Implications for Biodiversity**  
*Washington*

Moderators / Organizers  
Michael Gates and Becky Simmons  
USDA-ARS-SEL  
Washington D.C.

8:30 **Opening Remarks**

8:35 **Using databases in systematics: A world revision of the armyworm genus *Spodoptera* Guenee (Lepidoptera: Noctuidae)**  
Mike Pogue, USDA-ARS-SEL, Washington D.C.

9:10 **The use of molecular systematics in assessing host specificity of potential biocontrol agents**  
Sonja Scheffer, USDA-ARS-SEL, Beltsville, MD

9:45 **Parasitic Hymenoptera (Chalcidoidea) and biocontrol: Helping or hindering?**  
Michael Gates/Michael Schauff, USDA-ARS-SEL, Washington D.C.

10:20 **Break**

10:30 **Non-target effects: case studies in Diptera, Coleoptera and Hymenoptera**  
Jeff Boettner, Department of Entomology, University of Massachusetts, Amherst, MA

11:05 **Non-target impact of releasing exotic natural enemies against the pink hibiscus mealybug, *Maconellicoccus hirsutus* (Green), in St. Kitts, West Indies with a twist in Hawaii**  
Dale Meyerdirk, USDA-APHIS, NBCI, Riverdale, MD

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**Symposium: Info and Geo Technologies Advancing Population Ecology and Management**  
*Delaware 1 & 2*

Organizer / Moderator  
 Shelby Fleischer  
 Department of Entomology  
 Pennsylvania State University  
 University Park, PA

8:30 **Opening Remarks** Shelby Fleischer

8:35 **Presenting time sensitive pest data and developing pest models using GIS/GPS technologies**

Kristian E. Holmstrom, Sarah D. Walker, Joseph Ingerson-Mahar and Marilyn G. Hughes, Rutgers Cooperative Extension & Center for Remote Sensing, New Brunswick, NJ

9:10 **Modeling within field spatial dynamics and developing regional views of pest pressure**

Paul Blom and Shelby J. Fleischer, Pennsylvania State University, University Park, PA

9:45 **Coupling simulation and geographic information systems in pest and agroecosystem management**

Casey Hoy, V. Krishna Prasad and John Cardina, Ohio Agricultural Research and Development Center, The Ohio State University, Wooster, OH

10:20 **Break**

10:30 **Sampling and statistical techniques coupled with remote sensing for precision IPM**

Jeffrey Willers<sup>1</sup>, Deborah Boykin<sup>2</sup>, Mike Seal<sup>3</sup>, Kenneth Hood<sup>4</sup> and Wendell Ladner<sup>1</sup>,  
<sup>1</sup>USDA, ARS, Crop Science Research Laboratory, Mississippi State, MS, <sup>2</sup>USDA, ARS, Delta State Research Center, Stoneville, MS, <sup>3</sup>ITD Spectral Visions, Stennis Space Center, MS, <sup>4</sup>Perthshire Farms, Gunnison, MS

11:05 **Remote sensing and spatial ecology approaches in area-wide studies of insect populations**

Carlyle C. Brewster, Christopher Barker, Bill Dimock, Sally Paulson and Edwin E. Lewis, Virginia Tech, Blacksburg, VA

11:40 **The application of RS and GIS to investigate the epidemiology of Bartonellosis**

Richard Andre<sup>1</sup>, Penny Masuoka<sup>1</sup>, Eliska Rejmankova<sup>2</sup>, Roberto Fernandez<sup>3</sup>, Nelson Solorzano<sup>4</sup>, Scott Gordon<sup>1</sup>, Jesus Gonzalez<sup>1</sup>, Paul Pachas<sup>5</sup>, Nicole Achee<sup>1</sup>, Donald Roberts<sup>1</sup> and Phillip Lawyer<sup>1</sup>, <sup>1</sup>Department of Preventive Medicine and Biometrics, Uniformed Services University of the Health Sciences, Bethesda, MD, USA <sup>2</sup>Department of Environmental Science and Policy, University of California, Davis, CA, USA



Tuesday morning

<sup>3</sup>Department of Entomology, Naval Medical Research Center Detachment, Lima, Peru,  
<sup>4</sup>Hospital “San Juan de Dios” Caraz, Ministerio de Salud, Caraz, Peru Oficina General de  
Epidemiologia, Ministerio de Salud Lima, Peru

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**5K run / walk 12:30-1:30pm**

*meet in Plaza*

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**Symposium: Northeast Working Group on Biological Control Natural Enemy  
Augmentation–Recent Progress**

*Washington*

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

1:30 **Opening Remarks** Roger Fuester

1:35 **Augmentative biological control: A commercial perspective**

Carol Glenister, IPM Laboratories, Inc., Locke, NY

2:00 **Augmentation to manage key insect pests of ornamentals: How effective is it?**

Paula Shrewsbury and Kreshnik Bejleri, Department of Entomology, University of Maryland, College Park, MD

2:25 **Evaluating the potential for augmentative biocontrol of *Pyrrhalta viburni*, a new landscape pest in the northeast, with generalist predators**

Paul Weston, Department of Entomology, Cornell University, Ithaca, NY

2:50 **Entomopathogenic nematodes for control of Black Vine Weevil in greenhouses and perennial nurseries**

Stanton Gill, Joanne Lutz, Paula Shrewsbury and Michael Raupp, University of Maryland, College Park, MD

3:15 **BREAK**

3:30 **Biological control of European Corn Borer with *Trichogramma ostriniae***

Thomas Kuhar<sup>1</sup>, Michael P. Hoffmann<sup>2</sup>, Mark G. Wright<sup>2</sup> and Sylvie A. Pitcher<sup>2</sup>,

<sup>1</sup>Department of Entomology, Eastern Shore Agric. Res. & Ext. Ctr., VPI & SU, Painter, VA, <sup>2</sup>Department of Entomology, Cornell University, Ithaca, NY

3:55 **Integration of a biological control intensive program following annual releases of the egg parasitoid *Edovum puttleri***

James Lashomb, Department of Entomology and Economic Zoology, Rutgers University, New Brunswick, NJ

- 4:20 **Pheromonal augmentation of the predatory Spined Soldier Bug, *Podisus maculiventris* (Heteroptera: Pentatomidae)**  
Jeffrey R. Aldridge and Kevin Thorpe, USDA-ARS, Chemicals Affecting Insect Behavior Laboratory & Insect Biocontrol Laboratory, Beltsville, MD
- 4:45 **Discussion: Plans for next year** Richard Casagrande
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**Symposium: Digital Methods in Extension**

*Delaware 1 & 2*

Organizer / Moderator  
Doug Pfeiffer  
Department of Entomology  
Virginia Tech  
Blacksburg, VA

- 1:30 **Opening Remarks** Doug Pfeiffer
- 1:35 **How I made my first million (hits)**  
Eric Day, Department of Entomology, Virginia Tech, Blacksburg, VA
- 1:55 **Georeferencing pest populations in fruit crops**  
Dean Polk, Rutgers Fruit Research And Extension Center, Cream Ridge, NJ
- 2:05 **VICE-Corn: A Virginia insect control expert for corn**  
Rod Youngman, Department of Entomology, Virginia Tech, Blacksburg, VA
- 2:25 **BREAK**
- 2:40 **On the front line: Blending new and traditional media to extend IPM information to clientele**  
Ames Herbert, Tidewater Agric. Res. And Ext. Ctr., Suffolk, VA
- 3:00 **Web-based degree-day predictions**  
Greg Krawczyk, Penn State Fruit Research Center, Biglerville, PA
- 3:20 **Interfacing web-based information delivery and PDAs**  
D. G. Pfeiffer, Department of Entomology, Virginia Tech, Blacksburg, VA
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**Executive Committee 5:00-6:00pm**

*Rm 612*

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