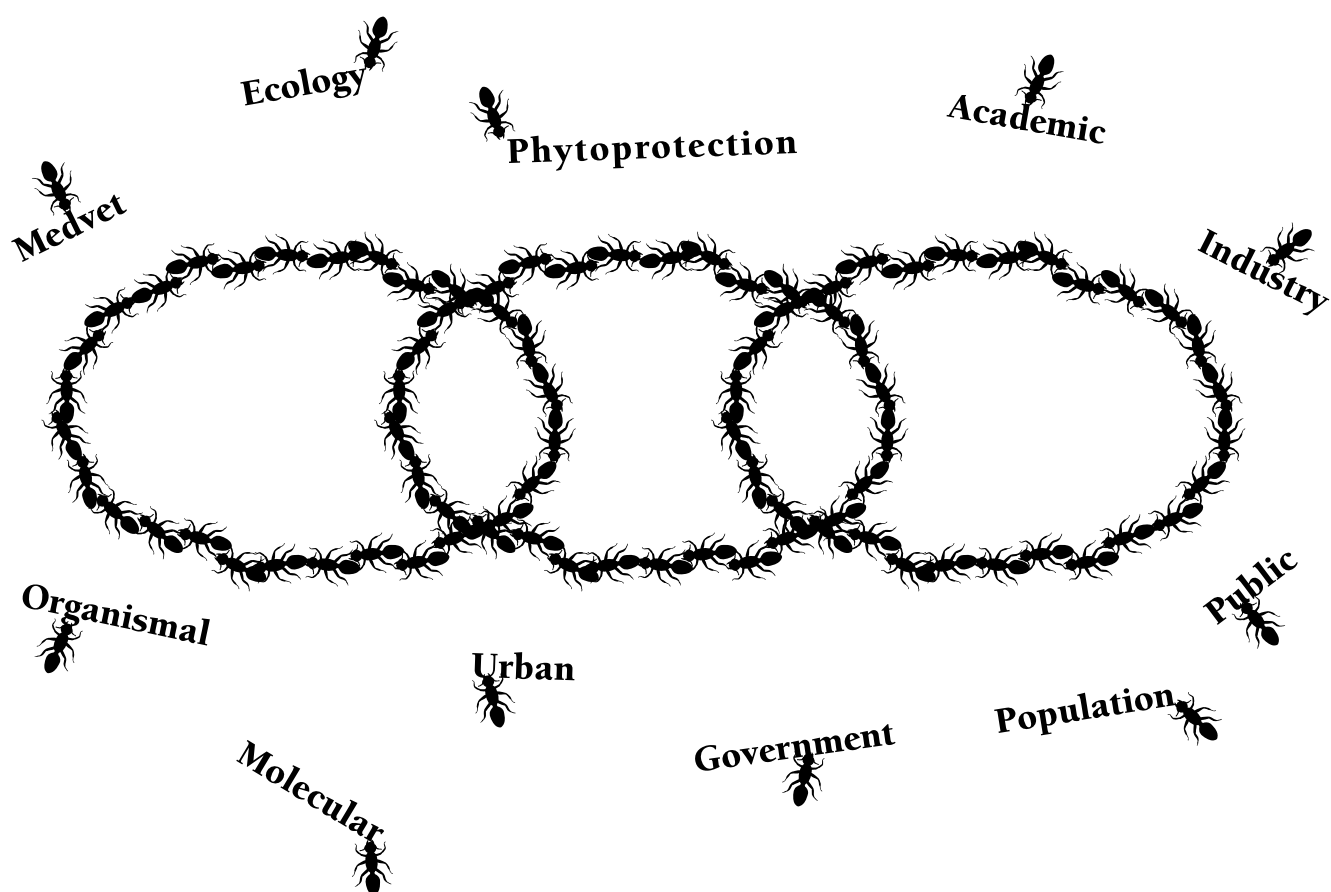


ENTOMOLOGICAL SOCIETY OF AMERICA

EASTERN BRANCH

76TH ANNUAL MEETING



ENTOMOLOGICAL LINKS: THE POWER OF COLLABORATION

MARCH 20 – 22, 2005
HARRISBURG HILTON HOTEL
HARRISBURG, PENNSYLVANIA



The Program Encapsulated

SUNDAY

Afternoon	Registration	1:00-5:00	Lancaster Lobby
	Local Arrangements	12:00-6:00	New Governor
	Executive Committee Meeting	1:00-5:00	Harrisburger
	It's a Bug's World – Outreach	1:00-5:00	Whitaker Center
	Posters and Displays	1:00-5:00	Carlisle
	Student Oral Presentation Competition	2:00-5:20	York
Evening	Reception and President's Welcome	6:00-7:30	Carlisle
	IDEP Workshop	7:30-9:00	Bridgeport
	Student Networking	7:30-9:00	Penn Harris
	Strategic Planning Meeting	7:30-9:00	Leland

MONDAY

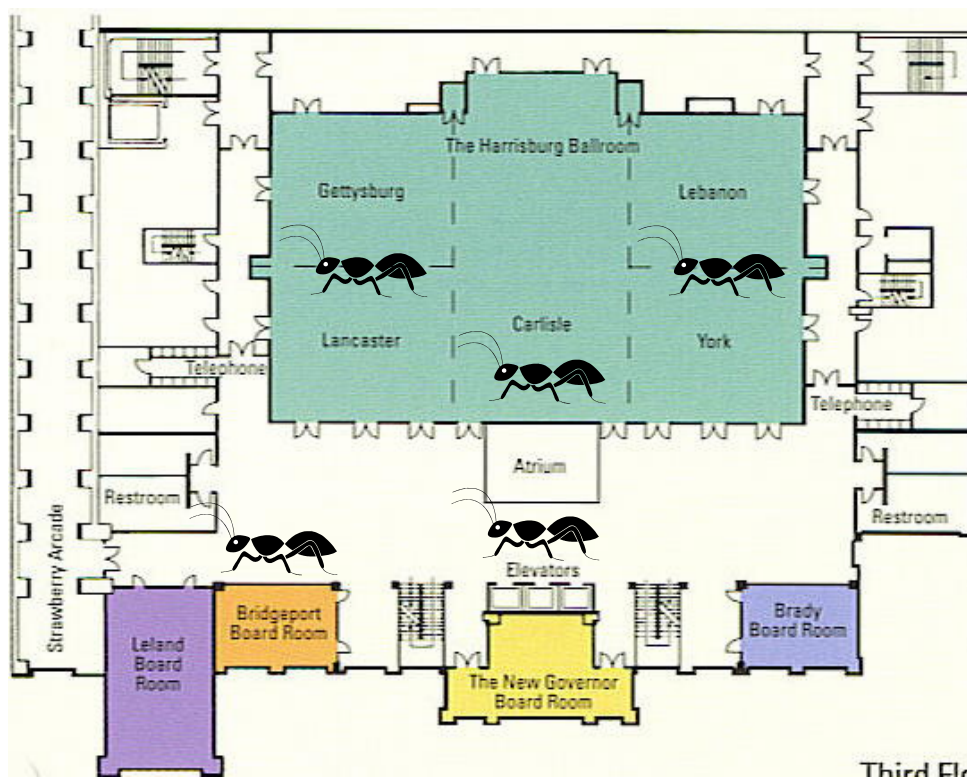
Morning	Registration	8:00-5:00	Lancaster Lobby
	Local Arrangements	Until 9:00 pm	New Governor
	Posters and Displays	8:00-5:00	Carlisle
	Tree Fruit Symposium	8:00-12:00	Lancaster
	IDEP Symposium	8:00-12:00	Penn Harris
	NE Regional Field Crops Conference	8:00-12:00	York
	Outreach Symposium	8:00-12:00	Gettysburg
Afternoon	Small Fruit Symposium	1:00-5:00	Lancaster
	Industry Symposium	1:00-5:00	York
	Student Symposium	1:00-4:35	Penn Harris
	Biological Control Symposium	1:00-5:00	Gettysburg
	Corn Earworm Resistance Discussion	2:00-5:00	Lochiel Boardroom
Evening	Social and cash bar	5:30-6:00	Carlisle
	Banquet and awards	6:00-8:30	York/Lebanon
	Linnaean Games	9:00	Lancaster

TUESDAY

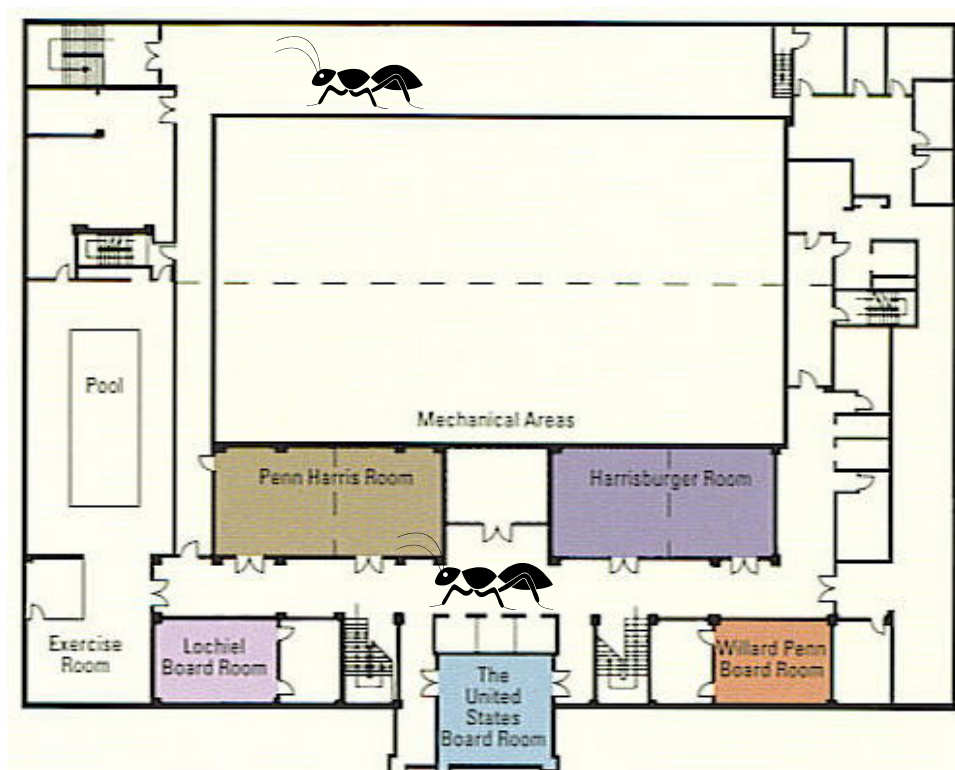
Morning	Registration	8:00-10:00	Lancaster Lobby
	Local Arrangements	8:00-12:00	New Governor
	Eastern Branch Business Meeting	7:00-7:45	Lebanon
	Posters and Displays	8:00-12:00	Carlisle
	Acarology Symposium	8:00-10:50	York
	Forestry Symposium	8:00-12:00	Lancaster
	Disease Vector Symposium	8:00-11:45	Gettysburg
	Submitted Papers	8:30-11:45	Lebanon
	Adjourn	12:00	

Harrisburg Hilton Floor Plan

Second Floor



Third Floor





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Thank you!

2005 Eastern Branch ESA Award Winners

ESA Distinguished Achievement Award in Teaching

Michael Saunders



Michael C. Saunders is a Professor of Entomology at Penn State University. He was born and raised in Tidewater, Virginia. He received his B.S. in Zoology from Duke University in 1975, his M.S. in Biology from Old Dominion University in 1978, and his Ph.D. in Entomology from the University of Georgia in 1984. He spent 18 months as a postdoctoral scholar at Texas A&M before joining the Penn State entomology faculty in 1985. He has taught Introductory Entomology since 1992. He also teaches Introductory Agroecology, and coordinates the Agroecology major. As program coordinator, he advises nearly 20 undergraduate students. He is also the graduate program coordinator in the Entomology Department at Penn State. In addition, he also serves as a faculty member of the Intercollege Graduate Degree Program in Ecology, and as a faculty member in the Dual Degree Program in Operations Research.

ESA Distinguished Achievement Award in Extension

Roger Youngman



Roger ‘Rod’ R. Youngman was born and raised in Southern California. He attended California State University Fullerton where he received his B.A. in biology in 1978. Rod relocated to Riverside in the fall of 1979 to pursue graduate studies in entomology at the University of California Riverside under the direction of Dr. Martin Barnes. He received his Ph.D. in entomology with minors in acarology and statistics in 1984. He remained at Riverside for the next four years working as a postdoctoral research entomologist. From 1984-1986, Rod worked for Dr. Nick Toscano on several cotton and vegetable insect pest management projects. From 1986-1988, he joined Dr. Tom Baker’s insect behavior lab where he ran electroantennogram analyses on carob moth sex pheromone components and conducted wind tunnel bioassays on host seeking and ovipositional behaviors in female navel orangeworm moths.

In 1988, Rod accepted an Assistant Professor and Extension Specialist position in the Department of Entomology at Virginia Tech. He was promoted to Associate Professor with tenure in 1994 and Professor in 2002. His current position assignment is 75% Extension, 15% Research, and 10% Teaching. Rod’s primary area of responsibility is to develop and disseminate new knowledge on insect pest management programs for field corn and alfalfa. He is additionally responsible for disseminating new and relevant information on pest management programs and management tactics for grass hay and pasture, sorghum, and large animals and poultry. He conducts research that complements his extension programs. Examples of recent and ongoing research projects include studies on insect resistant transgenic corn hybrids and glandular-haired alfalfa cultivars; efficacy and role of novel insecticidal seed treatments on secondary corn insects; ecology, cultural, and biological control of corn and alfalfa insects; and regional surveys of grower IPM practices and pest injury on forage crops.

ESA Recognition Award in Entomology

Anthony Shelton



Dr. Shelton has built a nationally and internationally recognized program in applied entomology for vegetable pest management that has had spin-offs to other systems. During the last five years, his contributions to insecticide resistance management (IRM) have been most notable and it is for this work he is being nominated. This work covers his valuable contributions on IRM to Bt transgenic plants, but also his substantial work on IRM to conventional insecticides. Dr. Shelton wishes to thank his co-workers since this award is a reflection of their work as part of our overall program.

L.O. Howard Distinguished Achievement Award

Ronald John Prokopy



We honor Ronald John Prokopy as the 2005 L.O. Howard Award recipient for distinguished achievement in the field of Entomology. By uniquely blending elements of behavioral ecology and evolutionary biology, Ron developed the premier program for managing the most important tree fruit pests in the Northeast. He pioneered the use of plant visual and odor cues for developing control tactics. His studies of foraging behavior and investigations of genetic and environmental components of behavior were used as the basis for creating new, biologically based approaches for pest management. Ron was recognized as a regional, national, and international scholar and was regularly invited to present the results of his research in this country and abroad. Ron published widely in the very best journals of the discipline. He was the author of more than 450 publications. He supported his research through highly competitive grant sources. He was active in the Branch and the Society. He received numerous awards and honors, including Fulbright and Guggenheim Fellowships, Distinguished Academic Outreach Award in 1998, University of Massachusetts Chancellor's Medal in 1985, J.E. Buzzart Memorial Award from the Entomological Society of America in 1984, Distinguished Research Award from the Massachusetts Agricultural Experiment Station in 1983, Wooster School Alumni of the Year award in 1983. In addition to his scholarly accomplishments Ron was a renaissance man who fully enjoyed science, art, music, sports and the natural world. He was an avid runner, swimmer, golfer, cross-country skier, gardener, and opera fan.

Herb Streu Meritorius Service Award

Susan Whitney King



Susan Whitney King served on the ESA Eastern Branch Executive Committee from 1995 to 2004 and, with her committee assignments, attended eleven consecutive summer planning meetings. Susan was instrumental in starting the changes to the EB Constitution and Bylaws that made electronic voting possible in the Branch saving us thousands of dollars. Offices and Committee assignments that she held were:

President, Eastern Branch. 2002 -2003.

EB Representative to the ESA Governing Board. 1996 – 1999.

Member-at-Large, EB Executive Committee. 1995.

Chair, EB Local Arrangements Committee. 1997-1998.

Chair, EB Finance Committee, 1995-1996.

Chair, EB Program Committee, 1994-1995.

Member, ESA Strategic Planning Committee, 1995 – 1997.

Chair, ESA Governing Board Committee on Human Diversity, 1994 – 1996.

King currently serves as the EB Parliamentarian.

John Henry Comstock Award

Jaime C. Piñero



I was born in Mexico City on November 19, 1969, and lived for nearly 30 years in Xalapa, Veracruz, Mexico, (along the Gulf of Mexico). From 1987 to 1992, I studied at the University of Veracruz, where I got my B.S. degree in Agronomy. While an undergraduate, I became involved in the field of Entomology at the Institute of Ecology (Xalapa, Veracruz, Mexico). It was there, while I was executing a research project for my B.S. thesis (a requirement of my University to get the bachelor's degree), that I realized how much I loved doing research in general, and the field of Entomology in particular. Subsequently, from 1992 to 1999 I worked (at the same institution) as a research assistant supporting several research projects related to the behavior and ecology of a group of tephritid flies that are pests of several species of tropical fruit, under the supervision of Dr. Martin Aluja.

In spring of 2000, I started graduate school in the Department of Entomology (nowadays Department of Plant, Soil, and Insect Science) at the University of Massachusetts, in Amherst, where I had the great fortune of being supervised by Dr. Ronald J. Prokopy. Ron Prokopy was a great advisor, and one of the most amazing and unique individuals I have ever met. He died unexpectedly in his sleep on May 14, 2004. As my way of honoring his memory, I am dedicating this John H. Comstock Award, and my entire Doctoral dissertation, to Ron Prokopy.

Asa Fitch Memorial Award

Benjamin Werling



Ben Werling was born in Evanston, Illinois on the 23rd of January in 1979. After graduating in 1997 from Lutheran high School Westland, he attended Luther College in Decorah, Iowa, receiving his B. A. in Biology in 2001. In 2001 he started working towards his M. S. in Entomology at Cornell University, working with Dr. Brian A. Nault at the New York State Agricultural Experiment Station and received his degree in 21 January 2004. He is currently a doctoral student in the Department of Entomology at the University of Wisconsin working with Dr. Claudio Gratton.

**SUNDAY MARCH 20, 2005****Afternoon**

Registration Dean Polk, Rutgers University, Cream Ridge, NJ	<i>Lancaster Lobby</i>	1:00-5:00
Local Arrangements Karl Valley, PA Dept. of Agriculture, Harrisburg, PA	<i>New Governor</i>	12:00-6:00
Executive Committee Meeting	<i>Harrisburger</i>	1:00-5:00

Public Outreach Program	<i>Whitaker Center</i>	1:00-5:00
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“It’s a Bug’s World”

Organizer: Faith Kuehn, Delaware Department of Agriculture, Dover, DE

Join us for 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 to meeting registrants and their families. Our program is in cooperation with the Whitaker Center and Oakes Museum of Natural History.

Bugs for the Gourmet David Gracer, Providence, RI

Ancient Chinese Jade Insects Doug Fleury, Holyoke, MA

STARS, Magnificent Mouths of Mini-Beasts The Sacred Scarab Kristin Shughart, Harrisburg, PA

Carrie Murray Nature Center Insect Zoo Lloyd Tydings, Baltimore, MD

Forensic Entomology: When You Die, the Bugs, Don’t Lie John Wallace, Millersville, PA

Insects of Pennsylvania David Foster, Grantham, PA

Waterworld Mike Hutchinson, PA DEP

The Wealth of Insect Diversity Fred Paraskevoudakis, MD Entomological Society

York County 4-H Bug Club Ryan Bridge

Capital Area Beekeepers Jim Hoover, Enola, PA

Invasive Insects Threatening PA Forest Health Shalia Werner, Middletown, PA



Sunday Afternoon

Student Competition Posters

Carlisle

1:00-5:00

Thomas Kuhar, Virginia Tech, Painter, VA

1. **Larval host plant density in eastern regal fritillary [*Speyeria idalia idalia* (Drury) (Nymphalidae)] occupied fields at Fort Indiantown Gap military base, Annville, Pennsylvania.**
Mark Swartz, and Betty Ferster, Fort Indiantown Gap Office, Annville, PA; Gregory Paulson, Shippensburg University, Shippensburg, PA
2. **Odonate diversity of permanent pools at Fort Indiantown Gap, a military installation in Annville, PA.**
David Zapotok, Shippensburg University, Shippensburg, PA; Betty Ferster, the Nature Conservancy, Annville, PA and Gregory Paulson, Shippensburg University, Shippensburg, PA
3. **The influence of biotic and abiotic factors on the invertebrate communities of eighteen vernal pools in Michaux State Forest, Franklin County, and State Game Lands #176, Centre County, Pennsylvania.**
Betsy Ray, The Nature Conservancy, Middletown, PA; Gregory Paulson and Larry Klotz Shippensburg University, Shippensburg, PA
4. **Immunocompetence in the dampwood termite *Zootermopsis angusticollis*: Encapsulation rates as a measure of cellular immunity.**
Nicole Uhlig, Rebeca Rosengaus and Donald O'Malley, Northeastern University, Boston, MA
5. **Choosing the right partner: Mate choice in the dampwood termite, *Zootermopsis gusicollis*.**
Danielle Bulgier, Navina Mehta and Rebeca Rosengaus, Northeastern University, Boston, MA
6. **Effect of soil moisture on questing and survival in nymphal black-legged ticks, *Ixodes scapularis*.**
Christine Zolnik, Sarah Rodgers, Thomas Mather, Josef Gorres and Howard Ginsberg, University of Rhode Island, Kingston, RI
7. **An evaluation of MODIS: a tool to predict tick populations?**
Maureen Brindley, Sarah Rodgers and Thomas Mather, University of Rhode Island, Kingston, RI
8. **Competitive interactions among three exotic predators of hemlock woolly adelgid, *Laricobius nigrinus*, *Sasajiscymnus* (= *Pseudoscymnus*) *tsugae*, and *Harmonia axyridis*.**
Robbie Flowers, Scott Salom and Loke Kok, Virginia Tech, Blacksburg, VA
9. **Cellulose digestion in the Asian longhorned beetle (*Anoplophora glabripennis*).**
Scott Geib and Kelli Hoover, The Pennsylvania State University, University Park, PA



Sunday Afternoon

10. **The role of olfaction in insect feeding behavior.**
Carlos Uquillas and Frank Hanson, UMBC, Baltimore, MD
11. **The effect of European corn borer stalk tunneling on juvenile penetration and egg production by root knot nematode, *Meloidogyne incognita*, in corn.**
Siddharth Tiwari, Roger Youngman, Virginia Tech, Blacksburg, VA and Edwin Lewis, University of California, Davis, CA
12. **Comparison of trap types for collecting *Halyomorpha halys* (Hemiptera: Pentatomidae).**
Anne Nielsen, Rutgers University, New Brunswick, NJ and Peter Shearer, Rutgers University, Bridgeton, NJ

Submitted Posters

Carlisle

1:00-5:00

13. ***Tipula paludosa* Meigen and *T. oleracea* Meigen, European crane flies new to the eastern United States: Potentially serious turfgrass and pasture pests.**
Richard Hoebeke and Carolyn Klassl, Cornell University, Ithaca, NY
14. **Turfgrass pest alert: Leatherjackets (Diptera: Tipulidae) cross into western New York.**
Daniel Peck, Cornell University Geneva, NY
15. **Invasive swallow-worts and associated insect herbivores in Rhode Island.**
Megan Dyer, Lisa Tewksbury and Richard Casagrande, University of Rhode Island, Kingston, RI
16. **Ecological investigations of natural enemies for an interstate biological control program against *Spartina* grasses.**
David Viola, Lisa Tewksbury and Richard Casagrande, University of Rhode Island, Kingston, RI
17. ***Phragmites australis* and the mealy plum aphid: Differential resistance on native and non-native haplotypes.**
Paula Hawkins, Adam Lambert, Richard Casagrande and Lisa Tewksbury, University of Rhode Island, Kingston, RI
18. **Effects of some insecticides on lacewing abundance and their parasitoids in New Jersey peach orchards.**
Atanas Atanassov and Peter Shearer, Rutgers University, Bridgeton, NJ
19. **Ovicidal effects of acetamiprid on selected insect pests of vegetables.**
John Aigner, Thomas Kuhar and Jack Speese, Virginia Tech, Painter, VA



Sunday Afternoon

20. **Foliar insecticide evaluations for lepidopterous pest control in collards (*Brassica oleracea* var. *acephala*) in Virginia.**
Roberto Cordero, Virginia Tech, Blacksburg, VA; Thomas Kuhar and John Speese III, Virginia Tech, Painter, VA
21. **Highbush blueberry insecticide use - Changes and trends.**
Dean Polk, Rutgers University, Cream Ridge, NJ; Eugene Rizio, Rutgers Cooperative Extension of Atlantic County and Peter Cottingham, Rutgers Cooperative Extension - Consultant
22. **A laboratory evaluation of chemical control methods against the invasive European fire ant, *Myrmica rubra*.**
Carrie Graham, Eleanor Groden and Frank Drummond, University of Maine, Orono, ME
23. **Biological control of two-spotted spider mites in New Jersey high tunnel production systems.**
Joseph Ingerson-Mahar and Kristian Holmstrom, Rutgers University, New Brunswick, NJ
24. **Control of varroa mites in honey bee colonies using a push-pull approach.**
Jodi Lasko and Dewey Caron, University of Delaware, Newark, DE
25. **A new look at old systematics: Resurrecting Asa Fitch's aphid notes.**
Gary Miller and Jonathan Eibl, USDA, ARS, Beltsville, MD
26. **Re-evaluation of the induction of specificity in *Manduca sexta* on host plants.**
Will Gretes and Frank Hanson, UMBC, Baltimore, MD
27. **Comparison of infusion preferences for *Culex pipiens* and *Culex restuans* (Diptera: Culicidae) in oviposition traps and gravid traps in southwestern Virginia.**
Bryan Jackson and Sally Paulson, Virginia Tech, Blacksburg, VA



Sunday Afternoon

Student Oral Presentation Competition

York

2:00-5:20

Organizer: Thomas Kuhar, Virginia Tech, Painter, VA

- 2:05 **Efficacy of spinosad in combination with inundative releases of *Trichogramma ostrinae* to control european corn borer in bell pepper.**
 Vonny Barlow, Virginia Tech, Blacksburg, VA and Thomas Kuhar, Virginia Tech, Painter, VA
- 2:17 **Using yellow rocket as a trap crop for diamondback moth.**
 Francisco Badenes-Perez, Anthony Shelton and Brian Nault, Cornell University, Geneva, NY
- 2:29 **Use of a synthetic aggregation pheromone to alter colorado potato beetle movement in the field.**
 Erin Hitchner, Virginia Tech, Blacksburg, VA; Thomas Kuhar, Virginia Tech, Painter, VA and Joseph Dickens, USDA-ARS, Beltsville, MD
- 2:41 **Fitness tradeoffs in Colorado potato beetle due to imidacloprid resistance.**
 Christian Castaldo and Galen Dively, University of Maryland, College Park, MD
- 2:53 **Locomotory response of potato aphid to environmental stimuli.**
 Girish Narayandas and Andrei Alyokhin, University of Maine, Orono, ME
- 3:05 **The facultative development of *Aphis glycines* in different temperatures.**
 Wilma Aponte-Cordero, Dennis Calvin and Michael Saunders, Pennsylvania State University, University Park, PA
- 3:17 **Natural occurrence and predatory efficiency of several predators against viburnum leaf beetle.**
 Gaylord Desurmont and Paul Weston, Cornell University, Ithaca, NY
- 3:29 **The effects of systemic sublethal doses of imidacloprid on two biological control agents of hemlock woolly adelgid, *Adelges tsugae*.**
 Brian Eisenback, Virginia Tech, Blacksburg, VA
- 3:41 **Break**
- 3:56 **Age-related immunocompetency in gypsy moth (*Lymantria dispar*) larvae.**
 Jim McNeil, Diana Cox-Foster and Mike Grove, Pennsylvania State University, University Park, PA



Sunday Afternoon

- 4:08 **You are what you eat: Diet and immunocompetance in the dampwood termite, *Zootermopsis angusticollis*.**
Jennifer Schmelter and Rebeca Rosengaus, Northeastern University, Boston, MA
- 4:20 **Crowding in early life causes deformities in insects.**
Alexander Bohorquez, UMBC, Baltimore, MD
- 4:32 **Hygropreference in larval *Manduca sexta*.**
Marc Rowley and Frank Hanson, UMBC, Baltimore MD
- 4:44 **Functional and morphological organization of the antennal lobe of male heliothine moth, *Helicoverpa zea*.**
Seong-Gyu Lee, Pennsylvania State University, University Park, PA, Mikael Carlsson and Bill Hanson, SLU, Alnarp, Sweden
- 4:56 **Population fluctuations of the annual bluegrass weevil in golf course landscapes.**
Maria Derval Diaz, Cornell University, Ithaca, NY and Daniel Peck, Cornell University, Geneva, NY
- 5:08 **The Evaluation of an alternative “least toxic” IPM program in a public school system.**
Hans Lemke, Paula Shrewsbury and Michael Raupp, University of Maryland, College Park, MD
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Sunday Evening

Reception and President’s Welcome	<i>Carlisle</i>	6:00-7:30
IDEP Workshop Organizers: Jim Stimmel, PA Dept. of Agriculture and Eric Day, Virginia Tech	<i>Bridgeport</i>	7:30-9:00
IDEP Committee Meeting	<i>Bridgeport</i>	9:00
Student Networking Doug Pfeiffer, Eastern Branch President	<i>Penn Harris</i>	7:30-9:00
Strategic Planning Meeting Organizer: George Hamilton, Governing Board Representative	<i>Leland</i>	7:30-9:00

**MONDAY MARCH 21, 2005****Morning**

Registration	<i>Lancaster Lobby</i>	8:00-5:00
Dean Polk, Rutgers University, Cream Ridge, NJ		
Local Arrangements	<i>New Governor</i>	Until 9:00 pm
Karl Valley, PA Dept. of Agriculture, Harrisburg, PA		
Posters and Displays	<i>Carlisle</i>	8:00-5:00

Tree Fruit Symposium	<i>Lancaster</i>	8:00-12:00
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**“Recent Advances in Tree Fruit Pest Management:
In Remembrance of Ron Prokopy”**

Organizers: Mark Brown and Tracy Leskey, USDA-ARS, Kearneysville, WV

- 8:00 **Introduction.**
Tracy Leskey, USDA-ARS, Kearneysville, WV
- 8:10 **Progress in trap development for monitoring stink bugs in mid-Atlantic apple and peach orchards.**
Henry Hogmire, WVU, Kearneysville, WV and Tracy Leskey, USDA-ARS, Kearneysville, WV
- 8:35 **Using behavioral studies to understand the biology and pest status of the brown marmorated stinkbug, *Halyomorpha halys* (Heteroptera: Pentatomidae): A recently imported pest.**
Peter Shearer, Anne Nielsen, George Hamilton, Rutgers, New Brunswick, NJ; Jeffrey Aldrich, Ashot Khimian, USDA-ARS, Beltsville, MD; Karen Bernhard, Lehigh County Cooperative Extension, Allentown, PA and Gary Bernon, USDA-APHIS Pest Survey, Detection and Exclusion Laboratory, Otis Airbase, MA
- 9:00 **Refinement of bio-based approaches to reducing insecticide use against plum curculio and apple maggot.**
Arthur Agnello, Cornell University, Geneva, NY and Jaime Piñero, University of Massachusetts, Amherst, MA
- 9:25 **Attractants for the plum curculio: Isolating key olfactory cues.**
Tracy Leskey, USDA-ARS, Kearneysville, WV
- 9:50 **Break**



Monday Morning

- 10:20 **The yin and yang of sesiid sex pheromones: Can we use behavioral antagonists as management tools?**
Chris Bergh, Virginia Tech, Winchester, VA; Tracy Leskey, USDA-ARS, Kearneysville, WV and Aijun Zhang, USDA-ARS, Beltsville, MD
- 10:45 **The effects of orchard host plants on the biology of Oriental fruit moth (*Grapholita molesta* Busck): Implications for integrated management.**
Clayton Myers and Larry Hull, Pennsylvania State University, Biglerville, PA
- 11:10 **Web broadcasting of apple insect and disease pest models to promote effective and efficient IPM.**
Glen Koehler, University of Maine Cooperative Extension, Orono, ME
- 11:35 **Putting it all together: Creating an orchard to optimize pest management.**
Mark Brown, USDA-ARS, Kearneysville, WV and Clarissa Mathews, Shepherd University, Shepherdstown, WV
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IDEP Symposium

Penn Harris

8:00-12:00

“Pathway Analysis for Exotic Pest Detection”

Organizers: Dick Bean, Maryland Dept. of Agriculture, Annapolis, MD and Jim Stimmel, Bureau of Plant Industry, Pennsylvania Dept. of Agriculture, Harrisburg, PA

- 8:00 **Opening Remarks.**
Dick Bean
- 8:05 **Identifying the hot zone.**
Joe Messineo, USDA, APHIS, PPQ, Ripley, WV
- 8:45 **Pest detection and USDA quarantine regulations compliance aboard Navy and Marine Corps shore installations.**
Shannon Sked, Department of the Navy, Lester, PA
- 9:15 **Pathways followed by *Copitarsia decolora* (Lepidoptera: Noctuidae): Implications for risk of establishment.**
Juli Gould, USDA, APHIS, Otis ANGB, MA
- 9:45 **Internet surveillance: Addressing regulatory holes in the net over the world wide web.**
Jim Smith, USDA-APHIS, Raleigh, NC
- 10:15 **Break**



Monday Morning

- 10:30 **NAPFAST- A weather based system for pest prediction and risk assessment.**
Dan Borchert, USDA/APHIS, Raleigh NC
- 11:00 **Safeguarding, intervention, & trade compliance.**
John Yankosky, USDA APHIS, Elizabeth, NJ
- 11:30 **Pathways of introduction for Sudden Oak Death.**
Kayimbi Tubajika, Pest Survey Detection and Exclusion Laboratory, Otis ANGB, MA
-
-

Field Crops Symposium

York

8:00-12:00

“Northeast Regional Field Crops Insect Conference”

Organizer: Dennis Calvin, Pennsylvania State University, University Park, PA

- 8:00 **Introduction.**
Dennis Calvin
- 8:10 **Effect of European corn borer on whole-plant yield and forage quality of field corn.**
Siddharth Tiwari, Rod Youngman and Curt Laub, Virginia Tech, Blacksburg, VA
- 8:30 **Non-target effects of clothianidin seed-treated corn on the invertebrate community.**
Heather Harmon, Jane Wolfson and Towson University, Towson, MD; Galen Dively, University of Maryland, University Park, MD
- 8:50 **Control efficacy and plant growth responses of clothianidin seed treatments in field corn.**
Terry Patton and Galen Dively, University of Maryland, University Park, MD
- 9:10 **Region monitoring of pyrethroid resistance in adult *Helicoverpa zea* (Boddie) populations in the mid-Atlantic states.**
Ames Herbert, Sean Malone, Thomas Kuhar, John Speese, Virginia Tech, Suffolk, VA; Gregory Payne, State U. of West Georgia, Carrollton, GA; Shelby Fleischer, Penn State U., University Park, PA; Joanne Whalen, U. of Delaware, Newark, DE; Galen Dively, Terry Patton, U. of Maryland, College Park, MD; Daney Johnson, Penn State U., Landisville, PA



Monday Morning

- 9:30 **In-field movement of young adult male European corn borer moths (*Lepidoptera: Crambidae*) and its significance in respect to *Bt* resistance management.**
Charles Mason, Kelly Shropshire, John Pesek, Jr., University of Delaware, Newark, DE; Thomas Hunt, University of Nebraska, Concord, NE and Pat Porter, Texas A & M University, Lubbock, TX
- 9:50 **Local movement of *Ostrinia nubilalis* females: Distance, direction, and host maturity effects.**
Katharine Guslick and Dennis Calvin, Pennsylvania State University, University Park, PA
- 10:10 **Break**
- 10:30 **Biological and developmental pattern of diapaused and non-diapaused univoltine and bivoltine European corn borer (*Ostrinia nubilalis*) population of a single geographic location, Centre County, PA.**
Faruque-Uz Zaman, Dennis Calvin, Edwin Rajotte and Liwang Cui, Pennsylvania State University, University Park, PA
- 10:50 **High-resolution geographic specific economic analysis model for European corn borer management using *Bt*-corn hybrids.**
Dennis Calvin and Jeffery Hyde, Pennsylvania State University, University Park, PA; Joseph Russo and Jay Schlegel, ZedX, Inc.
- 11:10 **Soybean aphid adult recruitment rate in central Pennsylvania and subsequent population growth and decline.**
Wilma Aponte-Cordero, Dennis Calvin and Michael Saunders, Pennsylvania State University, University Park, PA
- 11:30 **Update and discussion about soybean aphid surveys and current status of IPM programs in our region.**
Dennis Calvin, Keith Waldron and Ames Herbert
- 11:50 **Business meeting**



Monday Morning

Outreach Symposium

Gettysburg

8:00-12:00

“Beyond the Fear Factor:

Enhancing the Status of Insects in Education and Public Information”

Organizers: Betty Faber, Liberty Science Center, Jersey City, NJ and
Faith Kuehn, Delaware Department of Agriculture, Dover, DE

- 8:00 **Introduction.**
Faith Kuehn
- 8:05 **Excite youth about insect science to build a future for entomology.**
Paul Borth, The Entomological Foundation
- 8:25 **What you can do to promote science literacy and careers with pre-college youth.**
Doug Fleury, Caterpillar Catalyst, Inc., National Educational Outreach, Holyoke, MA
- 8:45 **Insects in children’s literature.**
Lori Lauver, Whitaker Center for Science and the Arts, Harrisburg, PA
- 9:05 **The Goldenrod Project.**
Joe Sheldon and Amber Wingert, Messiah College, Grantham, PA
- 9:25 **Educating children and the public using extension.**
George Hamilton, Rutgers University, New Brunswick, NJ
- 9:45 **Break**
- 9:55 **New pest management approaches to old ant problems.**
Rick Cooper, Cooper Pest Solutions, Lawrenceville, NJ
- 10:35 **Cockroaches are the teachers’ pet.**
Betty Faber, Liberty Science Center, Jersey City, NJ
- 10:55 **Educating the Public About Butterfly Conservation.**
Shelly Grow, Butterfly Conservation Initiative, Silver Spring, MD
- 11:15 **Wrap up and Discussion.**
Betty Faber
- 11:35 **View demonstrations and displays**



Monday Afternoon

Small Fruit Symposium

Lancaster

1:00-5:00

**“Novel Approaches to the Study of Behavior and Management:
Dedicated to the Memory of Sridhar Polavarapu”**

Organizer: Anne Averill, University of Massachusetts, Amherst, MA

- 1:00 **Introductory remarks: A tribute to Sridhar Polavarapu.**
Anne Averill
- 1:15 **A new arsenal for blueberry maggot control: Bait sprays, spheres, and organic insecticides.**
James Barry, Sridhar Polavarapu, Bill Sciarappa, and Luis Teixeira, Rutgers University, Chatsworth, NJ
- 1:35 **Management of stem gall in lowbush blueberry.**
Kenna MacKenzie, Agriculture and Agri-Food Canada, Kentville, NS, Canada
- 1:55 **Within and between field movement of blueberry maggot fly.**
Frank Drummond, University of Maine, Orono, ME
- 2:20 **Within and between habitat movement of cranberry fruitworm.**
Anne Averill, University of Massachusetts, Amherst, MA
- 2:40 **Fruit volatiles and host choice: Are all *Rhagoletis* species alike?**
Charles Linn, Jr., Cornell University, Geneva, NY
- 3:05 **Break**
- 3:20 **Capturing *Phyllophaga* using sex attractants: How a pest problem in cranberries became an exploration in evolutionary biology.**
Paul Robbins, Cornell University, Geneva, NY
- 3:45 **Behavioral and ecological variables that play a role in mating disruption of oriental beetle.**
Erik Wenninger, University of Massachusetts, Amherst, MA
- 4:05 **Nematodes for white grub management in blueberries and cranberries.**
Albrecht Koppenhöfer, Rutgers University, New Brunswick, NJ
- 4:30 **If one Japanese beetle is too many, is IPM the answer?**
Rufus Isaacs, Michigan State University, East Lansing, MI
- 4:55 **Concluding remarks.**
Anne Averill



Monday Afternoon

Industry Symposium

York

1:00-5:00

“Innovative Tactics for Crop Protection”

Organizers: Paul Rensner, FMC Corporation, Princeton, NJ and
Timothy White, Crop Management Strategies, Inc., Germansville, PA

- 1:00 **Introduction.**
Paul Rensner
- 1:10 **Screening for new insecticide leads: A target site approach.**
Russell Eldridge, John Lyga and John Dixon, FMC Corp., Princeton, NJ
- 1:35 **Metaflumizone: A new insecticide for the control of key row crop and vegetable pests.**
Thomas Anderson, Albert Everson and Robert Farlow, BASF Corp., Research Triangle Park, NC
- 2:00 **Dupont’s Indoxacarb global susceptibility monitoring program.**
Rachel Cameron, Hector Portillo, Paula Marcon, John Andaloro and Bruce Stanley, Dupont Crop Protection, Newark, DE
- 2:25 **Break**
- 2:45 **Mating disruption and dispenser technology.**
Greg Stamm, CBC America, Lincoln University, PA
- 3:10 **Granulosis virus for codling moth control.**
Mike Dimock, Certis USA, Columbia, MD
- 3:35 **Insecticide symptom phenotyping: Using digital imaging as a tool in insecticide discovery.**
Joseph Argentine, FMC Corp., Princeton, NJ
- 4:00 **Grower experience with novel pest control methods.**
Dave Benner, El Vista Orchards, Fairfield, PA
- 4:25 **Wrap-up and discussion.**
Tim White



Monday Afternoon

Student Symposium

Penn Harris

1:00-4:35

“Perspectives in Entomology: As a Link to Other Disciplines and Professions”

Organizer: Wilma Aponte-Cordero, Pennsylvania State University, University Park, PA

- 1:00 **Introduction.**
Wilma Aponte-Cordero, Chair, Student Affairs Committee
- 1:05 **Life history and ecology of *Phloeotribus liminaris* (peach bark beetle) in northern hardwood stands.**
Joshua Bogart, SUNY College of Environmental Science and Forestry, Syracuse, NY
- 1:30 **Participatory integrated pest management program development for the National parks located in the northeastern United States.**
Friedaricka Steed, Pennsylvania State University, University Park, PA
- 1:55 **Onion maggot adult dispersal in New York commercial onion fields: Implications for management.**
Benjamin Werling, University of Wisconsin, Madison, WI
- 2:20 **Locomotor response of potato aphid to environmental stimuli.**
Narayandas Girish Kumar, University of Maine, Orono, ME
- 2:45 **Break**
- 2:55 **Mayflies as integrative insects: Using knowledge of developmental mechanisms to create novel techniques to biomonitor aquatic systems.**
Brigid O'Donnell, University of Connecticut, Storrs, CT
- 3:20 **The advantages of arthropods for advancing ecology.**
Loren Benton Byrne, Pennsylvania State University, University Park, PA
- 3:45 **The use of molecular tools for understanding mayfly dispersal, genetic diversity, and gene flow among headwater streams in fragmented landscapes.**
Laurie Alexander, University of Maryland, College Park, MD
- 4:10 **Insect EF-1 alpha alignment**
Jessica Litman, Rutgers University, New Brunswick, NJ



Monday Afternoon

Biological Control Symposium

Gettysburg

1:00-5:00

“What Ever Happened To...?”

Organizers: Roger Fuester, USDA-ARS, Newark, DE and
Richard Casagrande, University of Rhode Island, Kingston, RI

- 1:00 **Introductory remarks.**
 Roger Fuester
- 1:05 **Whatever happened to the mexican bean beetle?**
 Mark Mayer, New Jersey Department of Agriculture, Trenton, NJ
- 1:25 **Whatever happened to the clover root curculio?**
 Ken Wise, Cornell University/NYS IPM Program, Ithaca, NY
- 1:45 **Whatever happened to the alfalfa snout beetle?**
 Elson Shields, Cornell University, Ithaca, NY
- 2:05 **Whatever happened to the European corn borer?**
 Charles Mason, University of Delaware, Newark, DE
- 2:25 **Whatever happened to the pink hibiscus mealybug?**
 Dale Meyerdirk, USDA-APHIS-PPQ, Riverdale, MD
- 2:55 **Break**
- 3:10 **Whatever happened to the gypsy moth?**
 Ann Hajek, Cornell University, Ithaca, NY
- 3:30 **Whatever happened to the brown-tail moth?**
 Joseph Elkinton, University of Massachusetts, Amherst, MA
- 3:50 **Whatever happened to the Hemlock woolly adelgid?**
 Roy Van Driesche, University of Massachusetts, Amherst, MA
- 4:10 **Whatever happened to the Larch sawfly?**
 John Quimby, Pennsylvania Department of Environmental Resources, Middletown, PA
- 4:30 **Whatever happened to the Birch leafminer and the Northeast Technical Committee
 on Biological Control?**
 Richard Casagrande, University of Rhode Island, Kingston, RI
- 4:50 **Closing Remarks.**
 Roger Fuester



Monday Afternoon

Eastern Branch Workshop

Lochiel Boardroom

2:00-5:00

Corn Earworm Synthetic Pyrethroid Resistance Roundtable Discussion

Organizer: Shelby Fleischer, Pennsylvania State University, University Park, PA

Monday Evening

Social gathering and cash bar

Carlisle

5:30-6:00

Banquet and Awards

York/Lebanon

6:00-8:30

ESA Distinguished Achievements in Teaching Award
ESA Distinguished Achievements in Extension Award
ESA Recognition Award in Entomology
L.O. Howard Distinguished Achievement Award
Herb Streu Meritorious Service Award
Asa Fitch Award
John Henry Comstock Award

Banquet Speaker: Dr. Tom Baker, Pennsylvania State University, University Park, PA

“Science With Practice: Neuroethology of Insect Pheromone Olfaction”

Linnaean Games

Lancaster

9:00

Doug Pfeiffer, Moderator



Tuesday March 22, 2005

Morning

Registration	<i>Lancaster Lobby</i>	8:00-10:00
Dean Polk, Rutgers University, Cream Ridge, NJ		

Local Arrangements	<i>New Governor</i>	8:00-12:00
Karl Valley, PA Dept. of Agriculture, Harrisburg, PA		

Eastern Branch Business Meeting	<i>Lebanon</i>	7:00-7:45
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Posters and Displays	<i>Carlisle</i>	8:00-12:00
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Acarology Symposium	<i>York</i>	8:00-10:50
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Mites, the New Pest Frontier

Organizer: Ronald Ochoa, USDA-ARS, Beltsville, MD

- 8:00 **Introduction.**
Ronald Ochoa
- 8:05 **Rose rosette disease, multiflora rose and eriophyid mites.**
James Amrine, West Virginia University, Morgantown, WV
- 8:30 **Phytoseidae (Acari) of North America.**
Gregory Evans, Harold Denmark and Calvin Welbourn, APHIS, USDA, Baltimore, MD
- 8:55 **Tritrophic interactions in mite predator-prey-plant systems with an emphasis on the role of leaf trichomes.**
Jan Nyrop, Cornell University, Ithaca, NY
- 9:15 **Break**
- 9:30 ***Aceria anthocoptes*, the Canada thistle (*Cirsium arvense*) rust mite (Acari: Eriophyidae).**
John Lydon and Ronald Ochoa, USDA-ARS, Beltsville, MD
- 9:55 **Biology and management of the cereal rust mite on timothy.**
Galen Dively and Terry Patton, University of Maryland, College Park, MD
- 10:20 **Plant feeding mites: Past, present, and future.**
Ronald Ochoa, USDA-ARS, Beltsville MD



Tuesday Morning

Forestry Symposium

Lancaster

8:00-12:00

“Linking the Past, Present, and Future”

Organizer: Scott Salom, Virginia Tech, Blacksburg, VA

- 8:00 **Opening Remarks.**
Scott Salom
- 8:05 **Insect-host plant interactions.**
Dylan Parry, SUNY, Syracuse, NY
- 8:23 **Population dynamics.**
Joe Elkinton, University of Massachusetts, Amherst, MA
- 8:41 **Chemical ecology.**
Stephen Teale, SUNY, Syracuse, NY
- 8:59 **Biodiversity.**
Stephen Woods, University of Maine, Orono, ME
- 9:17 **Break**
- 9:32 **Preventing exotic forest pests from entering our borders.**
Robert Rabaglia, Maryland Department of Agriculture, Annapolis, MD
- 9:50 **Renewed efforts in biological control.**
Scott Salom, Virginia Tech, Blacksburg, VA
- 10:08 **Chemical control of forest insects: Hemlock wooly adelgid as a case study.**
Richard Cowles, Connecticut Agricultural Experiment Station, Windsor, CT
- 10:26 **Implementation of mating disruption for a forest pest.**
Ksenia Tcheslavskaia, Virginia Tech, Blacksburg, VA
- 10:44 **Break**
- 10:59 **State approaches to forest pest management.**
Sven-Erik Spichiger, Pennsylvania Department of Conservation and Natural Resources, Middletown, PA
- 11:17 **Educating graduate and undergraduate students.**
Doug Allen, SUNY, Syracuse, NY
- 11:35 **Open forum**



Tuesday Morning

Disease Vector Symposium

Gettysburg

8:00-11:45

“High-Tech and Improved Control Strategies for Vectors of Arthropod-Borne Diseases”

Organizers: Victoria Solberg, Walter Reed Army Institute of Research,
Silver Spring, MD and James Steffel, LABServices, Hamburg, PA

8:00 Introduction.

Victoria Solberg

8:05 Advantages and disadvantages of the 4-poster deer station for control of black-legged deer ticks, *Ixodes scapularis*.

Victoria Solberg, Walter Reed Army Institute of Research, Silver Spring, MD

8:35 Control of *Ixodes scapularis* on white-footed mice for management of Lyme disease.

Nick Hamon, Bayer Environmental Science, Montvale, NJ

9:05 Addressing vector management at the state and local level.

Andy Kyle, PA Department of Environmental Protection – Vector Management,
Harrisburg, PA

9:35 West Nile virus: Military response to an emerging disease threat.

Melissa Miller, Alexandra Spring, Georgette Saba, Benedict Pagac, Karl Neidhardt and
Kenneth McPherson, US Army Center for Health Promotion and Preventative Medicine,
Ft. Meade, MD

10:05 Break

10:15 Field detection of arthropod borne pathogens.

LTC Monica O’Guinn, US Army Medical Research Institute of Infectious Diseases, Fort
Detrick, MD

10:45 Potential for management of vector borne disease with transgenic technology.

Kathryn Aultman, National Institute of Health, Bethesda, MD

11:15 Discussion



Tuesday Morning

Submitted Papers

Lebanon

8:30-11:45

Moderator: Greg English-Loeb, Cornell University, Geneva, NY

- 8:30 **Analysis of the predator community affecting crucifer herbivores.**
Scott Lewins, Carlo Moreno and Pedro Barbosa, University of Maryland, College Park, MD
- 8:42 **A tail of rare species: Exploring species abundance distributions in a community of riparian Macrolepidoptera.**
Eric Lind, University of Maryland, College Park, MD
- 8:54 **Influence of CREP vegetation type on arthropod diversity.**
Jessica Nelson and Galen Dively, University of Maryland, College Park, MD
- 9:06 **Predicting tick abundance for Lyme disease risk assessment.**
Sarah Rodgers and Thomas Mather, University of Rhode Island, Kingston, RI
- 9:18 **A Lucid expert system for the identification of scale insect families (Hemiptera; Sternorrhyncha; Coccoidea).**
Douglass Miller and Alessandra Rung, USDA-ARS, Beltsville, MD and George Venable, PXL PWR, Beltsville, MD
- 9:30 **Identifying source populations of introduced organisms using molecular tools.**
Robert Ahern, Michael Raupp and David Hawthorne, University of Maryland, College Park, MD
- 9:42 **Analysis of *Wolbachia* strains associated with plum curculio using *Wolbachia* surface protein (wsp) gene in eastern United States.**
Xing Zhang, Shirley Luckhart and Douglas Pfeiffer, Virginia Tech, Blacksburg, VA
- 9:54 **Bioactivity of selected indigenous medicinal plant species against *Bemisia tabaci* and chemical isolation of one bioactive extract.**
Efat Abou-Fakhr Hammad, University of Florida, Gainesville, Florida and Abdallah Zeaiter, American University of Beirut, Beirut, Lebanon
- 10:06 **Dispersal phenomena of the oriental fruit moth (Lepidoptera: Tortricidae) in apple and peach host crops.**
Nicolas Ellis and Larry Hull, Pennsylvania State University, Biglerville, PA
- 10:18 **Break**



Tuesday morning

- 10:33 **The influence of habitat isolation and dispersal capability on the population substructure of Hemiptera: Delphacidae and Isoptera: Termitidae in the British Virgin Islands.**
Gwen Shlichta, David Hawthorne and Robert Denno, University of Maryland, College Park, MD
- 10:45 **Evaluation of hypoxia for cultural control of Tortricid pests in cranberry.**
Luis Teixeira, Rutgers University, Chatsworth, NJ
- 10:57 **The role of reduced-risk insecticides in the conservation biological control of leafrollers in New York apple orchards.**
Mark Sarvary, Harvey Reissig and Jan Nyrop, Cornell University, Geneva, NY
- 11:09 **Viburnum leaf beetle: Update on an exotic landscape pest.**
Paul A Weston, Cornell University, Ithaca, NY
- 11:21 **Systematic revision of the Cossulinae (Lepidoptera: Cossidae) of Costa Rica.**
Steve Davis, University of Maryland, College Park, MD
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Adjourn

12:00

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