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84th Annual Meeting  
of the  
Southeastern Branch

Entomological Society  
of America



S. Kristine Braman  
SEB President, 2009-2010

7-10 March 2010  
Atlanta  
Georgia

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## PROGRAM SUMMARY

### SUNDAY, 7 MARCH

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- 1:00 - 5:00**      **Executive Committee Meeting** - Davidson Boardroom
- 1:00 - 3:00**      **Local Arrangements Committee Meeting** - Piedmont Room A
- 1:30 - 5:00**      **S-1034 Regional Project Meeting** - Chastain Room
- 3:00 - 5:00**      **Student Affairs Committee Meeting** - Piedmont Room A
- 3:00 - 7:00**      **Registration** - Prefunction Area
- 3:00 - 7:00**      **Audiovisual and Job Placement** -Magnolia Room
- 6:00 - 9:00**      **Display Presentation Set Up** - Lenox Room
- 8:00 - 7:00**      **Office** - Business Office

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## MONDAY, 8 MARCH

- 7:00 - 8:00**      **Host State Breakfast Mixer** – Prefunction Area
- 7:00 - 5:00**      **Registration and ESA Certification Board Information** – Prefunction Area
- 7:00 - 9:00**      **Audiovisual, Job Placement, Local Arrangements, and Public Relations** - Magnolia Room
- 7:00 - 7:00**      **Office** - Business Office
- 7:00 - 8:00**      **Display Presentation Set Up** - Lenox Room
- 8:00 - 5:00**      **Display Presentations Session 1 (MS and PhD Competitions; Structural, Veterinary, Public Health Systems, Urban Symposium; Systematics, Evolution, and Biodiversity; Integrative Physiological and Molecular Insect** - Lenox Room
- 8:15 - 9:30**      **Opening Session and Business Meeting** – Peachtree Ballroom A and B
- 9:30 - 10:15**      **Plenary Presentation** - Peachtree Ballroom A and B

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## **PROGRAM SUMMARY**

### **MONDAY, 8 MARCH**

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- 10:15 - 10:30**    **Break** – Prefunction Area
- 10:30 - 11:54**    **Ph.D. Paper Competition** - Peachtree  
Ballroom A and B
- 10:30 - 11:54**    **M.S. Paper Competition** - Piedmont Room A  
and B
- 12:00 - 1:30**     **ESA Certification Board Luncheon** - Hotel  
Restaurant
- 1:00 - 4:42**     **Ph.D. Paper Competition** - Peachtree  
Ballroom A and B
- 1:00 - 4:42**     **M.S. Paper Competition** - Piedmont Room A  
and B
- 1:30 - 2:30**     **Presenters of displays at Display**  
**Presentations** – Lenox Room
- 3:10 - 3:30**     **Break** - Prefunction Area
- 4:30 - 6:30**     **Southern Corn Entomologists Working**  
**Group** - Chastain Room
- 5:00 - 7:30**     **Linnaean Games** - Peachtree Ballroom A and  
B
- 7:30 - 9:30**     **Mixer** - Piedmont Room A and B
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## **TUESDAY, 9 MARCH**

- 7:00 - 8:00**     **Past Presidents Breakfast** – Hotel Restaurant
- 7:00 - 5:00**     **Registration and ESA Certification Board**  
**Information** – Prefunction Area
- 7:00 - 5:00**     **Audiovisual, Job Placement, Local**  
**Arrangements, and Public Relations** –  
Magnolia Room
- 7:00 - 7:00**     **Office** – Business Office
- 8:00 - 5:00**     **Display Presentations Session 2 (Physiology,**  
**P-IE, Turf/Ornamentals)** – Lenox Room

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# PROGRAM SUMMARY

## TUESDAY, 9 MARCH

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- 8:00 - 10:05**      **Symposium: S-1034 Biological Control  
Regional Project** — Piedmont Room B
- 8:00 - 9:45**      **Armyworm Symposium**—Peachtree  
Ballroom A
- 8:00 - 9:12**      **Contributed Papers: Structural,  
Veterinary, and Public Health Systems**—  
Piedmont Room A
- 9:12 - 9:48**      **Contributed Papers: Integrative  
Physiological and Molecular Insect  
Systems; Systematics, Evolution, and  
Biodiversity** - Piedmont Room A
- 10:00 - 10:20**    **Break** - Prefunction Area
- 10:20 - 11:44**    **Contributed Papers: Plant-Insect  
Ecosystems and Crop Pest Management** –  
Piedmont Room B
- 10:20 - 11:56**    **Contributed Papers: Plant-Insect  
Ecosystems and Crop Pest Management** –  
Piedmont Room A
- 12:00 - 1:30**     **Awards Luncheon**—Peachtree Ballroom  
A,B,C
- 1:30 - 2:30**      **Presenters of displays at Display  
Presentations** – Lenox Room
- 1:30 - 3:30**      **Student Symposium: A Creature is a  
Creature — Contributions to the Study of  
Non-insect Arthropods** - Piedmont Room B
- 1:30 - 3:20**      **Contributed Papers: Plant-Insect  
Ecosystems and Crop Pest Management**—  
Piedmont Room A
- 3:30 - 3:50**      **Break** - Prefunction Area
- 3:50 - 5:35**      **Urban Symposium**— Piedmont Room B
- 3:50 - 4:50**      **Turf and Ornamental Symposium**—  
Peachtree Ballroom A
- 3:50 - 5:02**      **Contributed Papers: Plant-Insect  
Ecosystems and Crop Pest Management** -  
Piedmont Room A

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**PROGRAM SUMMARY**  
**TUESDAY, 9 MARCH**  
(cont.)

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- 6:00 - 7:30**      **SEB Final Business Meeting** – Piedmont Room A
- 7:30 - 8:30**      **Meeting of SERA-IEG 23 (Cotton Insects)** – Piedmont Room A

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**WEDNESDAY, 10 MARCH**

- 8:00 - 9:30**      **Vegetable Symposium**—Piedmont Room B
- 8:00 - 9:24**      **Contributed Papers: Plant-Insect Ecosystems and Crop Pest Management** - Piedmont Room A
- 8:00 - 12:00**      **Urban IPM eXtension Work Group** – Chastain Room

## **MEETING NOTICES AND POLICIES**

**REGISTRATION:** Everyone attending the SEB-ESA meeting. On-site registration fees include a luncheon ticket, and are: Active Members – \$200; Student Members – \$100; Guests – \$50; and Non-members – \$250. One-day registration - \$125. Honorary Members, Emeritus Members, and Non-members giving invitational papers must register, but will not pay registration fees (luncheon ticket – \$20). Registration Booth is located in the Prefunction Area and will be open on Sunday (3:00 – 7:00 pm), Monday (7:00 am – 5:00 pm), and Tuesday (7:00 am – 5:00 pm).

**ESA CERTIFICATION BOARD INFORMATION DESK:** Information on the Certification Board of the Entomological Society of America will be offered in the Registration area during Registration periods. Please contact the Certification Board Manager at the National Office to make arrangements to take the Certification Board Examination at the meeting.

**PROGRAM SCHEDULE:** Sessions must adhere to the printed schedule. It is the moderators' responsibility to keep speakers on schedule. If a scheduled presentation is not given, the moderator should ensure that the next speaker does not begin until his/her scheduled time. Timing devices will be provided.

**AUDIOVISUAL:** Digital projectors will be provided in each meeting room, along with pointing devices. Please design your material so that it can be read easily by the audience when it is projected. Presentations may be previewed in the Magnolia Room from 5:00 to 9:00 pm on Sunday, and 7:00 am to 9:00 pm on Monday and Tuesday.

**JOB PLACEMENT CENTER:** The Student Affairs Committee will sponsor a job placement center (in the Magnolia Room) for all interested employers and prospective employees during regular meeting hours. If you have either a job vacancy or are seeking employment, please bring an announcement or resume to the Magnolia Room.

**DISPLAY PRESENTATIONS:** Poster boards measuring 4 ft. wide x 4 ft. tall will be provided for each display presentation (posters should be no larger than 44x44"). Displays for Monday exhibition should be set up on Sunday 6:00—8:00 pm or Monday morning from 7:00 - 8:00 AM in the designated area, and must be removed by 7 pm on Monday evening. Displays for Tuesday exhibition should be set up on Monday 7:00—9:00 pm or Tuesday morning from 7:00 - 8:00 AM in the designated area. Displays should be mounted on the boards (assigned by the number of the presentation) with Velcro fasteners (hook side). Authors are asked to bring their own stick-on

Velcro fasteners (preferred) or push pins for mounting their posters. All prints, figures, tables, etc. should be large enough to be read easily from a distance of at least 3 feet. Presentations in Session 1 will be displayed from 8:00 AM until 5 PM on Monday, 8 March, and Session 2 for the same period on Tuesday, 9 March. Presenters are encouraged to remain with their displays between 1:30 to 2:30 PM on the respective day of their poster presentations. Be sure to remove displays by 5:30 PM on Tuesday, 9 March.

**PUBLIC RELATIONS:** The Public Relations Committee will sponsor a Press Release area in the Magnolia Room during regular meeting hours. Press releases and public relations information may be brought to this area.



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# SOUTHEASTERN BRANCH – ESA

## 2009-2010

### OFFICERS AND COMMITTEES

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#### **EXECUTIVE COMMITTEE**

S. Kristine Braman, *President*  
Frank A. Hale, *President-Elect*  
Alvin Simmons, *Past President*  
David Hall, *Secretary-Treasurer*  
Mike Williams (2010), *Governing Board Rep.*  
Ralph D. Bagwell (2011), *Member-at-Large*  
Nancy C. Hinkle (2010), *Member-at-Large*  
B. Rogers Leonard (2010), *Member-at-Large*

#### **PROGRAM COMMITTEE**

John Ruberson, GA, *Chair*  
Michael D. Toews, GA  
Shimat Joseph, GA  
Nannan Liu, AL, *Ex-officio*  
James Cilek, FL, *Ex-officio*

#### **MEMBERSHIP COMMITTEE**

Eileen Buss, FL (2010), *Chair*  
Tracie Jenkins, GA (2010)  
Seth Johnson, LA (2010)  
Frank Hale, TN (2011)  
David Jenkins, PR (2011)  
David Orr, NC (2011)  
Tahir Rashid, MS (2011)

#### **MEMBER AWARDS COMMITTEE**

David Riley, GA (2010), *Chair*  
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Fiona Goggins, AR (2011)  
Eric Riddick, MS (2011)  
Kathy Kidd, NC (2012)

#### **STUDENT AWARDS COMMITTEE**

Gary Leibee, FL (2010), *Chair*  
Jack Bachelor, NC (2010)  
Francis Reay-Jones, SC (2010)  
Fred Musser, MS (2011)  
Tara Smith, LA (2011)  
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#### **STUDENT AFFAIRS COMMITTEE**

Ana Cabrera, NC (2010) *Chair*  
Jason Hamm, LA (2010)  
Sarah Self, MS (2010)  
Becky Trout, AR (2010)  
Cheri Abraham, GA (2011)  
Teresia Nyoike, FL (2011)  
Olulimathe Praisio, FL (2011)  
Claudia Holquin, SC (2011)  
Carla Dilling, TN (2011)  
Prithwiraj Das, AL (2011)  
Carlos Diaz, PR (2011)

**NOMINATING COMMITTEE**

Rob Wiedenmann, AR (University), *Chair*  
Nancy Hinkle, GA (University)  
Doug Houseworth, FL (Industry)  
Chip Anderson, GA (Industry)  
Ted Cottrell, GA (USDA)  
Jesusa Legaspi, FL (USDA)

**EDUCATION/YOUTH COMMITTEE**

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Randy Luttrell, AR (2010)  
Tracie Jenkins, GA (2012)

**RESOLUTIONS COMMITTEE**

Jerome Grant, TN, *Chair*  
Gary Leibee, FL  
Dakshina Seal, FL

**LOCAL ARRANGEMENTS COMMITTEE ATLANTA,  
GA MEETING (2010)**

A. "Stormy" Sparks, GA, *Chair*  
Wayne Gardner, GA  
Phillip Roberts, GA  
Teresia Nyoike, FL  
David Hall, *Ex-officio*

**MEETING LOCATION/TIME: PUERTO RICO (2011)**

Tugrul Giray, PR, *Chair*  
Rosa Franqui, PR  
Nico Franz, PR  
Bert Rivera-Marchand, PR  
Jose Rodrigues, PR  
Alvin Simmons, SC

**PROGRAM COMMITTEE: PUERTO RICO (2011)**

Juang-Horng 'JC' Chong, SC, *Co-Chair*  
Raymond Hix, FL, *Co-Chair*

**MEETING LOCATION/TIME: ARKANSAS (2012)**

Rob Wiedenmann, AR, *Chair*  
Randy Luttrell, AR  
David Hall, FL, *Ex-officio*

**AUDITING COMMITTEE**

David Held, AL, *Chair*  
David Buntin, GA  
Catharine Mannion, FL

**ARCHIVES COMMITTEE**

Don Alleman, NC, *Historian*

**BOARD CERTIFICATION COMMITTEE**

C. Roxanne Connelly, FL, *SEB Rep.*  
James Cilek, FL (2011)

**PUBLIC RELATIONS COMMITTEE**

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Ray Hix, FL  
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**AD HOC BY-LAWS REVISIONS COMMITTEE**

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John Ruberson, GA  
Michael Toews, GA

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COMMITTEE**

Phillip Roberts, GA, *Chair*  
Nancy Hinkle, GA  
Jerome Goddard, MS  
Jeff Gore, MS  
Will Hudson, GA  
Frank Hale, TN  
Mark Abney, NC  
Dave Schuster, FL  
Karen Vail, TN  
Dan Suiter, GA

**AD HOC DIRECTORY OF ENTOMOLOGISTS IN  
GEORGIA COMMITTEE**

Linda Smyth, GA, *Chair*

**AD HOC NATIONAL OFFICES NOMINATING  
COMMITTEE**

Jim Harper, NC, Chair  
Joe Culin, SC  
Wayne Gardner, GA  
Gary Mullen, AL  
Richard Sprenkel, FL

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**AWARDS 2010 –  
ESA DISTINGUISHED ACHIEVEMENT  
AWARD IN EXTENSION**

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**Dr. Dan L. Horton**, fruit entomologist with the University of Georgia, Department of Entomology, has been selected as the 2010 recipient of the Southeastern Branch Distinguished Achievement Award in Extension. Dr. Horton received his B.S. and M.S. from Clemson University and his doctorate from the University of Arkansas. He assumed his current position as an extension entomologist upon graduation in 1982. Dr. Horton has previously been honored with the D.W. Brooks Award (college) and the Hill Award (university) for excellence in outreach education. Dr. Horton has also received the National Peach Council's Carroll R. Miller Award (research/extension). He is particularly proud to have received the Georgia Peach Council's Mr. Peach Award, an honor normally reserved for growers. Dr. Horton worked initially with fly control in caged layers. He was the first to document house fly resistance to pyrethroids in the Southeast. He responded by offering house fly control and resistance management training to growers, poultry industry leadership and county agents. He also participated in county commission meetings providing unbiased information on house fly biology to concerned citizens living near farms with pyrethroid resistant house flies. This experience catalyzed what has become a career long focus on helping farmers in varied commodities proactively implement the simplest, most affordable pesticide resistance management options available to them. He has worked extensively to help growers cope with resistance or declining insecticide performance in apples (tufted bud moth, oriental fruit moth, codling moth, mites) and ornamentals (mites, whiteflies & mealybugs). In the mid 1980s Dr. Horton shifted his focus from poultry to fruit crop pest management, emphasizing blueberries and peaches. In blueberries he worked with USDA colleagues to conduct the first systematic survey of the insects and mites of cultivated and wild blueberries of the deep South. GA blueberry acreage has grown from less than 3,000 acres to more than 16,000 acres, with a farm gate value of ca. \$60 million. The recent onset of *Xylella fastidiosa* as a bush-killing pest of some of our most profitable southern highbush blueberry cultivars prompted Dr.

Horton to initiate examination of leafhopper ecology and management. Early in his career Dr. Horton emphasized innovations such as alternate row middle spraying to help the industry adapt to using safer but more expensive insecticides. As insecticide availability continued to change, Dr. Horton has helped the industry adapt to outbreaks of scale and, more recently, borer species. He has also aggressively participated in pesticide policy dialogues, championing the need to retain safe, non-disruptive older materials, which serve as resistance management tools, while showing growers the advantages of newer insecticides that have proven good fits in our orchard systems. He has also facilitated export opportunities for Georgia blueberries, apples and peaches.

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**AWARDS 2010 –  
ESA DISTINGUISHED ACHIEVEMENT  
AWARD IN HORTICULTURAL  
ENTOMOLOGY**

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**Dr. Abner M. Hammond, Jr.**, Professor and Extension Specialist, Louisiana State University Agricultural Center, Department of Entomology, is the 2010 winner of the Southeastern Branch Distinguished Achievement award in Horticultural Entomology. He received a B.S. degree in Zoology from Mississippi State University in 1961, a M.S. degree in Zoology with a minor in genetics from the same institution in 1963, and a Ph.D. degree in Entomology from Louisiana State University in 1967. After a brief stint as research scientist with Southern Research Institute in Birmingham, Alabama, he joined the Entomology faculty at LSU in 1968 as an assistant professor, where he has remained for 40 years. He was appointed full professor in 1976. Dr. Hammond taught courses in insect physiology and toxicology for 18 years. During this period his areas of interests included studies of chemical control of insect behavior, especially pheromones for monitoring and surveying insect populations in agricultural and horticultural crops; the chemical ecology of migratory noctuid moths and host plant effects on developmental and reproductive traits of pest Lepidoptera. Dr. Hammond's extension appointment focuses on various aspects of pest management in sweet potato including biology of pest species, population monitoring, development of a strategic plan to reduce risk and enhance sustainability of southern sweet potato pest management, and screening new insecticides for use in the sweet potato agro-ecosystem. Part of his extension responsibilities included making annual IPM recommendations to the Louisiana sweet potato clientele and helping to develop Louisiana's statewide sweet potato weevil pheromone monitoring program. Dr. Hammond and Dr. Richard Story collaborated in developing timely pre-plant or lay-by and foliar applications of insecticide estimated to save the Louisiana growers about \$8.7 million per year in insect-related losses. In 2004, he was invited to serve as a distinguished lecturer and

expert in control of sweet potato pests by the Japan International Cooperative Agency, Okinawa, Naha City, Japan. Dr. Hammond has been a career member of the ESA and Southeastern Branch for 40 years. He served as chairman of the ESA Awards Luncheon in 1975 and the SEB program chairman in 1977. He has served the SEB as judge and moderator of student presentations. In 2001, he served as the Chairman of Section B ESA Recognition Award Committee in Insect Physiology, Biochemistry and Toxicology. He has published more than 125 research and extension articles and written four book chapters. He holds one sweet potato patent jointly with colleagues for Bienville which was awarded in 2004. He has served as major advisor for 12 Ph.D. students and has been appointed to more than 60 graduate advisory committees. His University activities of particular merit include serving four 3-year terms on the LSU Faculty Senate and three terms on the College of Agriculture Promotion and Tenure Committee. Dr. Hammond received the Tipton Team Award from LSU's Agricultural Center in 2002 and was recognized as "Mr. Yam" in 2003.

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**AWARDS 2010 –  
DISTINGUISHED ACHIEVEMENT  
AWARD IN TEACHING**

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**Dr. Donald E. Champagne**, an Associate Professor in the Department of Entomology at the University of Georgia has been selected for the 2010 SEB Distinguished Achievement Award in Teaching. He is also a member of the Center for Tropical and Emerging Global Diseases, the Faculty of Infectious Diseases, and the Biomedical Health Sciences Institute. He received his B.S. and M.Sc. at the University of Ottawa (Ottawa, Ontario), and his Ph.D. at the University of British Columbia (Vancouver, British Columbia). Dr. Champagne's graduate work was in the area of plant-insect interactions and phytochemistry. He continued this work as an NSERC postdoctoral fellow at the University of Arizona, Tucson. He then changed direction to his current interest in the saliva of blood-feeding arthropods in a second postdoc at the University of Arizona, and later as an Assistant Research Scientist, before coming to UGA. Dr. Champagne's research focus is on the role of vector saliva in interactions between vectors and their vertebrate hosts. Blood-feeding has evolved independently several times in arthropods, and sampling these independent lineages allows a fuller understanding of the diversity and evolution of salivary proteins. This work has resulted in the identification of many novel vasodilators, platelet aggregation antagonists, and anticoagulants. Current projects include the characterization of proteins with antihemostatic activity from mosquitoes, the black fly *Simulium vittatum*, and the tick *Amblyomma americanum*. Most effort is directed to the characterization of immunomodulatory activities and proteins in saliva of mosquitoes and black flies, which has resulted in the identification of novel mechanisms of T- and B-cell inhibition in the vertebrate host. This work is highly interdisciplinary, involving aspects of evolutionary biology, molecular biology, vertebrate vascular biology, and immunology. He has been assisted in this work by students at the graduate and postdoctoral level. Dr. Champagne is active in teaching at the undergraduate and graduate level. His primary responsibility is for an undergraduate course in Medical Entomology, which has grown



from 31 students in 1998 to 96 this year, making it likely to be the largest Medical Entomology course in the country. This course attracts students from Entomology, Cellular Biology, Microbiology, and other diverse Majors across the University. Additional teaching includes a graduate level course in Vector Biology, participation in team-taught courses including Medical and Urban Entomology and Molecular Entomology, and regular guest lectures in Medical Parasitology, Global Perspectives on Tropical and Emerging Infectious Diseases, Biotechnology, and other courses.

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**AWARDS 2010 –  
ESA RECOGNITION AWARD IN  
INSECT PHYSIOLOGY,  
BIOCHEMISTRY, AND TOXICOLOGY**

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This award recognizes and encourages innovative research in insect physiology, biochemistry, and toxicology. The 2010 recipient, **Dr. Michael R. Strand**, is Distinguished Research Professor in the Department of Entomology at the University of Georgia. He also holds appointments in the Center for Tropical and Emerging Global Diseases, Faculty of Infectious Diseases, and Department of Genetics. Dr. Strand received his B.S. and Ph.D. from Texas A&M University. He began his professional career as a NATO-NSF Postdoctoral Fellow at Imperial College, University of London, was on the faculty at Clemson University for a short time before moving to the University of Wisconsin-Madison where he was promoted to Professor. He is currently a Professor in the Department of Entomology at the University of Georgia in Athens, GA. His primary research interests are in the study of the interactions between parasites, pathogens, and their insect hosts. Current projects focus on characterizing: 1) polydnviruses and other symbionts associated with parasites, 2) insect immune defense responses, and 3) factors that regulate insect reproduction. His laboratory is highly interdisciplinary with studies that focus on both the molecular and biochemical regulation of physiological processes and their effects on life history and evolution. Internationally recognized, Dr. Strand has authored or co-authored more than 160 peer-reviewed journal papers and book chapters. His service contributions include appointments on several journal editorial boards (including the Journal of Insect Behavior, Archives of Insect Biochemistry Physiology, Annals of the Entomological Society of America, Journal of Insect Biology, Insect Biochemistry and Molecular Biology, and PLoS Pathogens), grant evaluation panels, and committees for national and international scientific agencies including Chairmanship of the NIH Study Section in Vector Biology. Dr. Strand has advised more than sixty graduate students and post-doctoral scientists, and is active in teaching at the undergraduate level. Dr Strand is a fellow of the American Association for the Advancement of Science and has received several awards for his work including the National-ESA Recognition Award in Insect Physiology, Biochemistry, & Toxicology.

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## AWARDS 2010 – ESA AWARD FOR EXCELLENCE IN INTEGRATED PEST MANAGEMENT

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**Dr. John R. Ruberson** is a Professor of Entomology and Adjunct Professor in the Odum School of Ecology at the University of Georgia, and is the Southeastern Branch recipient of the ESA Award for Excellence in Integrated Pest Management. Dr. Ruberson received his B.S. in Biology Teaching in 1982 from Brigham Young University and his M.S. in Zoology in 1984 from the same institution. He received his Ph.D. in Entomology in 1989 from Cornell University, and joined the University of Georgia in 1994. Dr. Ruberson's research emphasis is biological control as a component of integrated pest management, specifically conservation biological control and sustainable production in agricultural systems. Dr. Ruberson has worked with a variety of insect pests and natural enemies during his career, in tree systems, row crops, and vegetables. His research with the late Dr. Gary Herzog and Dr. W. Joe Lewis on biological control of the beet armyworm in Georgia significantly changed grower awareness of and attitudes toward insect natural enemies in cotton, and led to widespread reduction in broad-spectrum insecticide use in cotton in the region. His work on cotton aphid population dynamics, in collaboration with former student Dr. Mark Abney (currently at NCSU), and Drs. Timothy Kring and Donald Steinkraus (both at Univ. of Arkansas) led to near-elimination of insecticide use against this pest Georgia cotton, allowing natural enemies to function. His work with former student Dr. Jorge Torres (currently at the Federal Rural University of Pernambuco in Recife, Brazil) has contributed significantly to understanding nontarget impacts of Bt-transgenic crops, particularly the safety of these products for arthropod predators. His studies with pesticide effects on natural enemies have been used in the registration process for experimental insecticides, and provide important data for grower decisions. Dr. Ruberson has served in a variety of leadership and support roles in the Entomological Society of America, the International Organization for Biological Control, and the Georgia Entomological Society, served as subject editor for *Environmental Entomology* for 7 years, and is currently on the editorial board for the journal *Biological Control*. He is active in graduate and undergraduate teaching and advising, and is an author/co-author of more than

150 refereed and non-refereed publications and 14 book chapters. He has co-edited one book, edited another (“Handbook of Pest Management”), and with Dr. Allen Knutson (Texas A&M) co-authored an illustrated field guide to beneficial organisms in cotton, that sold more than 6000 copies before going out of print. He has been PI/co-PI on more than \$2.8 million in grants with various agencies.

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**AWARDS 2010 –  
ESA RECOGNITION AWARD IN  
URBAN ENTOMOLOGY**

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**Dr. Daniel R. Suiter**, an Associate Professor, Urban Pest Management, in the Department of Entomology at the University of Georgia, UGA Griffin Campus, has been selected as the 2010 winner of the SEB Recognition Award in Urban Entomology. Dr. Suiter is a member of the Entomological Society of America and the Georgia and South Carolina Entomological Societies; he is active in leadership roles in several professional organizations, and was Chair of the 2004 National Conference on Urban Entomology. Dr. Suiter is a recent recipient of PCT magazine's prestigious "Top 40 under 40" award and was recently inducted into Syngenta's Crown Leadership Awards Class for 2007. Dr. Suiter has worked with the pest control industry since 1987. He received his B.S. (1987), M.S. (1989), and Ph.D. (1994) degrees from the University of Florida. His graduate work was under the direction of Drs. Phil Koehler, Richard Patterson, and Richard Brenner of the USDA-ARS, Imported Fire Ant and Household Insects Research Unit. His research was focused on bait development for the German cockroach, for which UF received a patent, and biological control/chemical ecology of peridomestic cockroaches utilizing the oothecal parasitoid *Aprostocetus hagenowii* (Hymenoptera: Eulophidae). In January 1995 Dr. Suiter took the position of Director, Industrial Affiliates Program, in the Center for Urban & Industrial Pest Management at Purdue University where he developed research and extension programming in support of the structural pest control industry in collaboration with Dr. Gary W. Bennett. His research was focused on the biology, ecology and management of ants and termites. Extension efforts at Purdue included planning for the Purdue Pest Control Conference, development of pertinent written extension materials, and the implementation of a national workshop series on topics of interest to the pest control industry, including *The Science of Baiting Urban Pests* and *Stored Product Protection in the New Millennium*. In 2006, in cooperation with The UGA Griffin Campus' Office of Continuing Education, Dr. Suiter developed a Certificate in *Urban and Structural Pest Management*. The Program is

designed to attract new service technicians to the pest control industry while providing them the necessary tools to perform their job at a high level of effectiveness. Dr. Suiter helps oversee the *Anti-Formosan Termite Program*, a state-sponsored project whose goal is to eradicate Formosan termites from Georgia when found. Dr. Suiter's current job duties include the development of extension, research, and education programs on the management of structural and household pests in support of the pest control industry, homeowners, and the Georgia Cooperative Extension Service. He coordinates the training activities of the Georgia Structural Pest Control Training Center, a partially-completed home comprised of common construction elements found throughout Georgia and the southeastern United States. The structure is used to train and educate Georgia's 1,200 termite and pest control companies about issues involving termite control.

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## AWARDS 2010 – ESA RECOGNITION AWARD IN ENTOMOLOGY

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**Dr. Robert M. McPherson**, Professor of Entomology, University of Georgia, is the 2010 winner of the Southeastern Branch Recognition Award in Entomology. Dr. McPherson received his degrees from Sam Houston State University (B.S. in Biology) and Louisiana State University (M.S. and Ph.D. in Entomology). He began his career at Virginia Tech and after 8 ½ years, he accepted a position as Associate Professor of Entomology at UGA, conducting research in soybean and tobacco insect pest management at the Coastal Plain Experiment Station. He was soon promoted to the tenured rank of Professor, the position that he has held for the last 23 years. Dr. McPherson has received awards for Extension Achievement from Epsilon Sigma Phi, the Virginia Soybean Association, and for Research Achievement from the American Soybean Association, Sigma Xi, and the UGA Tifton Campus. As a Research Entomologist, Dr. McPherson has co-authored 1 book, and authored or co-authored 10 book chapters, 95 refereed journal articles, many other scientific articles and publications. He has served as principal investigator for \$2,519,306 in grant funding plus has been an active cooperator on another \$1,498,500 in grant support. He was one of the first entomologists in the US to examine the efficacy and efficiency of this emerging technology in this crop under large-scale replicated field trials under natural infestations of lepidopteran pests. Dr. McPherson has also been actively involved with Virginia Tech Soybean Breeder Dr. Glenn Buss in developing and evaluating soybean germplasm containing the IAC-100 cultivar in their pedigrees. Following extensive field evaluations during the past 10 years, Drs. McPherson, Buss, and Rainey have obtained a joint release of 6 germplasm lines with resistance to stink bugs and lepidopteran pests. In 2002, Dr. McPherson observed small colonies of soybean aphids which were confirmed by USDA APHIS officials as a new invasive species. He prepared a UGA CAES Extension Publication that was distributed to all soybean-producing county Extension Services to alert the producers. Dr. McPherson's tobacco entomology research has focused primarily on issues surrounding thrips and tomato spotted wilt (TSW) interactions during the past 10 years. Dr.

McPherson has led collaborative efforts that have resulted in a treatment program providing a 40% reduction in TSW and today, over 90% of all tobacco being transplanted in Georgia is treated with this program, saving producers around \$2-3 million annually. Dr. McPherson also has served in numerous other leadership roles. Dr. McPherson has served as Advisor to 9 graduate students (7 M.S. and 2 Ph.D.) and served on 14 other graduate Advisory Committees. He also served as Advisor to 7 undergrad R.J. Reynolds interns.



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**AWARDS –**  
**JOHN HENRY COMSTOCK – 2010**  
**Outstanding Ph.D. Student**

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**Waseem Akbar**, a Ph.D. candidate working under Dr. T.E. (Gene) Reagan at Louisiana State University, has been selected to receive the 2010 John Henry Comstock Award for the Southeastern Branch of the Entomological Society of America. His dissertation research focuses on resistance to the sugarcane aphid, including feeding behavior and identification of free amino acids with differential susceptibility among sugarcane cultivars. Mr. Akbar has 13 peer-reviewed publications, including seven as senior author. Additional studies have involved tebufenozide resistance in the sugarcane borer, biological control of the sugarcane aphid, cultural practices and invasive species, and stored grain insects IPM. Awards include the LSU Department of Entomology L.D. Newsom Outstanding Ph.D. Student, ESA President's Prize (2<sup>nd</sup> place in oral session), and the R.H. Painter M.S. Student at Kansas State University.

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**AWARDS –**  
**KIRBY L. HAYS – 2010**  
**Outstanding M.S. Student**

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**Mark Galatowitsch** has had a passion for entomology since he started insect collections as a 4Her in Iowa. His curiosity blossomed into an interest in insect ecology. To pursue a career in entomology he has worked on a variety of research projects such as biological control of European corn borers at the University of Minnesota, mosquito and blackfly identifications for the Minnesota Metropolitan Mosquito Control Agency, and studying alpine macroinvertebrate communities at the Rocky Mountain Biological Lab. Mark received his B.Sc. in biology from Allegheny College in Meadville, PA. While there he studied homopteran escape behaviors in response to a specialized bird predator in Costa Rica that resulted in publications in *Biotropica* and *Evolution*. After completing his undergraduate studies Mark lived for two years in a Nicaraguan town working with community leaders and teachers as an environmental education Peace Corps volunteer.

Mark continued his pursuit of an entomology career with an M.S. at the University of Georgia where he has been studying mechanisms that drive annual larval leptophlebid mayfly movements between river channels and floodplain wetlands in the Georgia Piedmont. Under the guidance of Dr. Darold Batzer, Mark has presented his research at the local level (Georgia Water Resources Conference), nationally (North American Benthological Society Conference) and in Brazil at the International Ecology Congress for Wetlands. In addition to research Mark has been an active member of the H.O. Lund Entomology Club participating in insect related outreaches and as the social chair. He has also assisted with the UGA insect natural history course in Costa Rica.

Following his graduation from UGA in spring 2010, Mark will begin his doctoral research in aquatic macroinvertebrate ecology at the University of Canterbury in Christchurch, New Zealand under the advisement of Dr. Angus McIntosh.

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**AWARDS –**  
**ROBERT T. GAST – 2009**  
Best Ph.D. Paper, Annual SEB Meeting

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**Jimmy Pitzer** earned B.S. and M.S. degrees from New Mexico State University in Animal Science. His M.S. research focused on determining the potential vectors of West Nile virus in Doña Ana County New Mexico. During his instruction he served as both a teaching assistant for Parasitology (AnSc 462) and research assistant at the New Mexico State Veterinary Entomology Laboratory under the advisement of Dr. Ronnie Byford. This work directed his interest towards insects of veterinary importance, and in 2007 Jimmy began study under the advisement of Dr. Phillip Kaufman at the University of Florida Entomology and Nematology Department. Jimmy is currently a doctoral candidate serving as a teaching (ENY 4660/6665) and research assistant at the Veterinary Entomology Laboratory. His doctoral research involves the ecology of stable flies associated with Florida equine facilities, which includes study of their preferred hosts, insecticide susceptibility, and pupal parasitoids.

Jimmy has presented the findings of his research at various scientific conferences including the annual meetings of the Entomological Society of America, the Southeastern Branch of the Entomological Society of America, and the Livestock Insect Worker's Conference. He has also participated in the Student Science Training Program offered by the University of Florida for two years as mentor of high school students wishing to gain experience in scientific research at the collegiate level.

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**AWARDS –  
SOUTHEASTERN BRANCH STUDENT  
AWARD – 2009**

**Best M.S. Paper, Annual SEB Meeting**

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**Kyle Fontenot** was born in 1983 in rural south Louisiana in the town of Ville Platte. He grew up working on a family farm with sweet potato, grain, and beef cattle production. He graduated high school in 2001 from Sacred Heart High School. He then attended Louisiana State University and received his B.S. degree in Agronomy with a concentration in crop management in 2006. During his undergraduate studies, he was an officer in the LSU Agronomy Club and completed two summer internships in advanced crop production technologies. After graduation, he accepted a CO-OP training position with Monsanto Company in which he assisted in research on crop protection with transgenic crops. He enrolled in the Louisiana State University graduate studies program during the spring semester 2007 with Dr. Roger Leonard as his advisor. While working on a MS degree in entomology, he was involved in many aspects of insect pest management across a variety of Louisiana row crops including cotton, corn, grain sorghum and soybeans. He gained experience in insecticide efficacy trials, transgenic crop evaluations, insecticide resistance monitoring, development and validation of action thresholds, as well as studies on insect biology, and insect-crop interactions. His MS project focused on the effects of an insecticide application on the distribution of the tarnished plant bug, *Lygus lineolaris*, within the cotton plant profile. During his education and training, he was an active member of several state, regional and national societies. He delivered eight oral and display presentations at various meetings and conferences. Three of his presentations have been acknowledged with awards. In addition, he contributed to 16 refereed and technical publications. Kyle completed his MS in August 2009 and is now employed with Bayer CropScience as a regional cotton and rice agronomist in Louisiana and south Arkansas.

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## AWARDS – OUTSTANDING PH.D. DISPLAY – 2009

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**Frank Wessels** received his B.S. in Marine Science and Biology from the University of Tampa in 2002. As an undergraduate, Frank's interest in entomology grew after internship experience with the Department of Environmental Protection and Dow AgroSciences. In 2003, he began a Master's Degree in weed biological control at the University of Florida. Working with James Cuda, Frank investigated the host range and biology of an Eriococcid scale insect as a potential control agent for the invasive strawberry guava. After completing his Master's Degree in 2005, Frank began his Ph.D. in insect physiology with Dan Hahn at the University of Florida. Frank's doctorate research has focused on resource allocation and the mechanistic basis of life-history evolution using the flesh fly, *Sarcophaga crassipalpis* as a model.

As a student, Frank has been involved with the Entomological Society of America, serving on the Southeastern Branch Student Affairs Committee for the past two years. He has served multiple terms as an officer in the Entomology and Nematology student organization at the University of Florida. Frank has been a teaching assistant for the principles of entomology class for the past four years. Frank is an active member of the Florida Entomological Society, the Entomological Society of America, and the Society for Integrative and Comparative Biology. He plans on graduating with his Ph.D. in the fall of 2010.

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## AWARDS – OUTSTANDING M.S. DISPLAY – 2009

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**Evelyn Carr** was the recipient of the 2009 Outstanding M.S. Student Display for “Field phenology of *Leptodictya plana*: first record in Georgia”. Evelyn was born in 1985 in Fort Leonard Wood, Missouri. She grew up in central Georgia and graduated from Lovejoy High School in Lovejoy, Georgia, in 2004. She then attended the University of Georgia and received her B.S. in Environmental Science. While attending the University of Georgia she worked in the Landscape Pest Management Lab under the advisement of Dr. Kris Braman. Evelyn continued her studies at the University of Georgia and is currently pursuing a M.S. degree in Entomology, also under advisement of Dr. Kris Braman. She is expected to graduate in May of 2010. Her master’s degree research program investigates a rare species of lacebug, *Leptodictya plana*, family Tingidae, which is a significant pest of ornamental *Pennisetum* spp. grasses. This pest has never been previously recorded in Georgia and little to no research has been performed on the ecology, biology or host range of this species. Her current thesis aims to elucidate some of the basic information about this pests’ behavior to better predict the potential damage it may cause in landscapes throughout the Southeast. Evelyn is an active member of the H.O. Lund Entomology Club and was elected secretary for the 2009-2010 year. She has also been involved in numerous outreach programs and was a CAES Young Scholar Mentor in 2008 and 2009. She is a member of the ESA and the Georgia Entomological Association. She has presented her research at both state and regional professional entomological conferences. Evelyn is planning to pursue her Ph.D. in entomology and is currently in the process of applying to graduate schools.

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## SUNDAY, 7 MARCH

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- 1:00 - 5:00**      **Executive Committee Meeting -**  
Davidson Boardroom
- 1:00 - 3:00**      **Local Arrangements Committee Meeting**  
- Piedmont Room A
- 1:30 - 5:00**      **S-1034 Regional Project Meeting -** Chastain  
Room
- 3:00 - 5:00**      **Student Affairs Committee Meeting -**  
Piedmont Room A
- 3:00 - 7:00**      **Registration -** Prefunction Area
- 3:00 - 7:00**      **Audiovisual and Job Placement -** Magnolia  
Room
- 6:00 - 9:00**      **Display Presentation Set Up -** Lenox Room
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## MONDAY, 8 MARCH

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- 7:00 - 8:00**      **Host State Breakfast Mixer** – Prefunction Area
- 7:00 - 5:00**      **Registration and ESA Certification Board Information** – Prefunction Area
- 7:00 - 9:00**      **Audiovisual, Job Placement, Local Arrangements, and Public Relations** – Magnolia Room
- 7:00 - 7:00**      **Office** - Business Office
- 7:00 - 8:00**      **Display Presentation Set Up** – Lenox Room
- 8:00 - 5:00**      **Local Arrangements** - Magnolia Room
- 8:00 - 5:00**      **Display Presentations** – Lenox Room
- 8:00 - 9:30**      **Opening Session and Business Meeting** – Peachtree Ballroom A and B
- 9:30 - 10:15**      **Plenary Presentation** – Peachtree Ballroom A and B
- 10:15 - 10:30**      **Break** – Prefunction Area
- 10:30 - 11:54**      **Ph.D. Paper Competition** - Peachtree Ballroom A and B
- 10:30 - 11:54**      **M.S. Paper Competition** – Piedmont Room A and B
- 12:00 - 1:30**      **ESA Certification Board Luncheon** – Hotel Restaurant
- 1:30 - 4:42**      **Ph.D. Paper Competition** - Peachtree Ballroom A and B
- 1:30 - 4:42**      **M.S. Paper Competition** - Piedmont Room A and B
- 1:30 - 2:30**      **Presenters of displays at Display Presentations** – Lenox Room
- 3:10 - 3:30**      **Break** - Prefunction Area
- 4:30 - 6:30**      **Southern Corn Entomologists Working Group** - Chastain Room
- 5:00 - 7:30**      **Linnaean Games** - Peachtree Ballroom A and B
- 7:30 - 9:30**      **Mixer** - Piedmont Room A and B



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## MONDAY, 8 MARCH

- 7:00 - 5:00**      **Registration and ESA Certification Board Information** – Prefunction Area
- 7:00 - 9:00**      **Audiovisual, Job Placement, Local Arrangements, and Public Relations** – Magnolia Room

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### MONDAY MORNING, 8 MARCH

- 7:00 - 8:00**      **Host State Breakfast Mixer** – Prefunction Area
- 7:00 - 8:00**      **Display Presentation Set Up** – Lenox Room
- 8:00 - 5:00**      **Display Presentations** – Lenox Room  
Presenters present from 1:30 to 2:30 pm

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### MONDAY MORNING, 8 MARCH

**8:00 - 9:30**      **BUSINESS MEETING AND  
PLENARY SESSION**

**\*Peachtree Ballroom A and B\***

- Presiding:**      **S. Kristine Braman, President,  
Southeastern Branch, Entomological  
Society of America**
- 8:00**              **Call to Order**  
S. Kristine Braman, President
- Welcome to Atlanta**
- 8:10**              **Preliminary Business Meeting**  
Announcements  
Committee Reports  
    Local Arrangements – Stormy Sparks  
    Program – John Ruberson  
    Nominations – Rob Wiedenmann  
    Resolutions—Jerome Grant  
    Meeting Location/Time 2011 – Alvin  
    Simmons

- 8:30**            **Announcements from ESA Section  
Representatives**
- 8:40**            **Message from the ESA Entomological  
Foundation – Alvin Simmons**
- 8:45**            **Message from David B. Hogg, President,  
Entomological Society of America;**  
Department of Entomology, University of  
Wisconsin
- 9:00**            **Message from Executive Director’s Office,  
Richard Levine, Entomological Society of  
America**
- 9:15**            **Message from Michael L. Williams, SEB  
Governing Board Representative;**  
Department of Entomology and Plant  
Pathology, Auburn Univ.
- 9:20**            **Remarks from S. Kristine Braman,  
President, Southeastern Branch of the  
Entomological Society of America**
- 9:30-10:15 (1)    PLENARY  
PRESENTATION: Dr. W. Joe Lewis:  
“Employing the Marvels of Nature: Folklore  
to Modern Science”.** Dr. Lewis is retired  
from USDA-ARS, but remains active in  
research. He is world-renowned for his  
excellent work in parasitoid foraging ecology  
and behavior, and the role of plants and  
learning in these processes.
- 10:15 - 10:30    Break**

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## MONDAY MORNING, 8 MARCH

**10:30 - 11:54 M.S. PAPER COMPETITION  
\*Piedmont Room A and B\***

**Moderator: Xing Ping Hu, Auburn Univ.**

**10:30 (2)** Sorbitol as a protectant for protein markers. **Ankit, K.**, and F.R. Musser. Dept. of Entomology, Mississippi State University [1,2]

**10:42 (3)** Determining the host use pattern of *Lasioderma serricornis* in indoor and outdoor environments using carbon isotopes and trace elemental markings. **Clark, D.S.**, V. Dawson and R.M. Mahroof. Department of Biological and Physical Sciences, South Carolina State University [1, 2,3].

**10:54 (4)** Mechanisms driving *Leptophlebia* (Ephemeroptera) movements between river channels and floodplain wetlands. **Galatowitsch, M.L.**, and D.P. Batzer. Dept. of Entomology,

Univ. of Georgia [1,2].

**11:06 (5)** Effects of wildfire on the community composition and mercury concentrations of aquatic macroinvertebrates in the Okefenokee Swamp. **Beganyi, S.R.**, and D.P. Batzer. Dept. of Entomology, Univ. of Georgia [1,2].

**11:18 (6)** Biology and Ecology of *Leptodictya plana* (Hemiptera: Tingidae). **Carr, E. R.**, and S.K. Braman. Dept. of Entomology, Univ. of Georgia [1,2]

**11:30 (7)** Early season population dynamics and management of bird cherry-oat aphid, *Rhopalosiphum padi* in Arkansas winter wheat. **McWilliams, B.J.**, T.J. Kring and Y.J. Shen. Dept. of Entomology, Univ. of Arkansas [1,2,3].

**11:42 (8)** Pheromone trap assisted scouting for the Mexican rice borer in sugarcane. **Wilson, B.E.**, W. Akbar, J.M. Beuzelin, A.T. Showler and T.E. Reagan. Dept. of Entomology, Louisiana State Univ. AgCenter [1,2,3,5]; USDA ARS, Weslaco, TX [4].

**12:00 - 1:30 pm LUNCH—On your own.**

## MONDAY MORNING, 8 MARCH

**10:30 - 11:54 PH.D. PAPER COMPETITION**  
**\*Peachtree Ballroom A and B\***

**Moderator: Ralph Bagwell, Bayer CropSciences**

**10:30 (9)** Assessment of regulatory violations in public schools. **Brannon, S.**, and B. Forschler. Dept. of Entomology, Univ. of Georgia [1,2].

**10:42 (10)** Framework of a Mexican rice borer population dynamics model for rice management. **Beuzelin, J. M.**, J. Lv, L. T. Wilson and T. E. Reagan. Dept. of Entomology, Louisiana State Univ. [1,4]; Beaumont Center, Texas A&M Univ. [2,3].

**10:54 (11)** Reproduction and life table parameters for adult female Lesser cornstalk borer, *Elasmopalpus lignosellus* (Lepidoptera: Pyralidae) on sugarcane under laboratory conditions. **Sandhu, H.S.**, G.S. Nuessly, S.E. Webb, R.H. Cherry and R.A. Gilbert. UF Everglades Research and Education Center, Belle Glade, FL [1,2,4,5]; Dept. of Entomology and Nematology, Univ. of Florida, Gainesville, FL [3].

**11:06 (12)** Methods for sampling soil surface arthropods in organic mulches: Which one is the best? **Gill, H.K.**, R. McSorley, M.A. Branham and G. Goyal. Dept. of Entomology and Nematology, Univ. of Florida, Gainesville, FL[1,2,3]; Everglades Research and Education Center, Belle Glade, FL[4].

**11:18 (13)** Hunting Billbug (*Sphenophorus venatus vestitus*) pest of warm season turfgrasses. **Doskocil, J.P.**, and R.L. Brandenburg. Dept. of Entomology, North Carolina State University [1,2].

**11:30 (14)** Biodiversity and spatial distribution of Arthropods associated with a *Salvinia minima*. **Parys, K.A.**, and S. Johnson. Louisiana State Univ. AgCenter [1,2].

**11:42 (15)** Co-occurrence patterns of Mycetophilids found in association with eastern hemlock, *Tsuga canadensis* (L.) in the southern Appalachians. **Dilling, C.I.**, P.L. Lambdin, J.F. Grant, R. Rhea. Dept. of Entomology and Plant Pathology, Univ. of Tennessee [1,2,3]; USDA Forest Service, Forest Health Protection [4]

**12:00 - 1:30 pm LUNCH—On Your Own**

### MONDAY AFTERNOON, 8 MARCH

**1:00 - 4:42 M.S. PAPER COMPETITION**  
**\*Piedmont Room A and B\***

**Moderator: David Buntin, Univ. of Georgia**

**1:30 (16)** Analyzing feeding behavior of *Nezara viridula* on *Glycine max* using electrical penetration graph techniques. **Cooke, S.B.**, P.L. Mitchell and E.A. Backus. Dept. of Biology, Winthrop University [1,2]; USDA-ARS Crop Disease, Pests and Genetics Research Unit, San Joaquin Valley Agricultural Sciences Center [3].

**1:42 (17)** Feeding behavior of *Leptoglossus phyllopus* (Hemiptera: Coreidae) developmental stages. **Johnson, S.E.**, and P.L. Mitchell. Dept. of Biology, Winthrop University [1,2].

**1:54 (18)** Effects of PGPR on the behavior of lepidopteran pests. **Nangle, K.W.**, and H.Y. Fadamiro. Dept. of Entomology and Plant Pathology, Auburn University [1,2].

**2:06 (19)** Top or bottom? Feeding location preferences of pecan aphids. **Paulsen, C.**, T. Cottrell and J.R. Ruberson. Dept. of Entomology, Univ. of Georgia [1,3]; USDA-ARS, Byron, GA [2].

**2:18 (20)** Monitoring stored-product insect activity in mills using direct and indirect sampling. **Dawson, V.**, D.S. Clark and R.M. Mahroof. Dept. of Biological and Physical Sciences, South Carolina State Univ., Orangeburg, SC [1, 2, 3].

**2:30 (21)** Controlling the Darkling Beetle, *Alphitobius diaperinus* (Coleoptera: Tenebrionidae), in broiler houses: Field trial with diatomaceous earth. **Boozer, W.E.**, and N.C. Hinkle. Dept. of Entomology, Univ. of Georgia [1,2].

**2:42 (22)** Fruit injury and developing action thresholds in two dual-gene cotton varieties. **Von Kanel, B.**, and G. Lorenz III. Dept. of Entomology, Univ. of Arkansas [1]; University of Arkansas Extension Entomology [2].

**2:54 (23)** Threecornered alfalfa hopper injury and damage in

early soybean production system. **Pulakkatu-Thodi, I.**, F.R. Musser and J. Gore. Dept. of Entomology, Mississippi State University [1,2,3].

**3:10 - 3:30 BREAK—Prefunction Area**

**3:30 (24)** Evaluating the efficacy of methoxyfenozide on Louisiana Soybean looper populations. **Brown, S.A.**, J.A. Davis, K.L. Kamminga, A.R. Richter, B.R. Leonard. Louisiana State Univ. AgCenter [1-5].

**3:42 (25)** Biological control of the Grape Root Borer (Lepidoptera: Sesiiidae) in 'Cynthiana' grape. **Said, S.**, R.L. Hix, M.T. Kairo and S. Reitz. Florida A & M Univ., Center for Biological Control [1], USDA-ARS, CMAVE, Tallahassee [2]

**3:54 (26)** Evaluating potential of *Amblyseius swirskii* and *A. cucumeris* as biocontrol agents of thrips (Thysanoptera: Thripidae) in South Florida. **Kakkar, G.**, D.R. Seal, P.A. Stansly, O.E. Liburd and V.K. Jha. Dept. of Entomology, Univ. of Florida [1-5].

**4:06 (27)** Evaluating *Orius insidiosus* as a potential biocontrol agent of cornsilk fly *Euxesta stigmatias* Loew (Diptera: Ulidiidae). **Kalsi, M.**, D.R. Seal, G.S. Nuessly and J. Capinera. Dept. of Entomology, Univ. of Florida [1-4].

**4:18 (28)** The success and reproduction of *Orius insidiosus* on thrips (*Frankliniella occidentalis*) using the ornamental black pearl pepper: banker plants as a means of biological control in greenhouses. **Wong, S.K.**, and S.D. Frank. Dept. of Entomology, North Carolina State Univ. [1,2].

**4:30 (29)** Revision of Alabama Isoptera. **Stephen, C.**, and X.P. Hu. Dept. of Entomology & Plant Pathology, Auburn University [1,2].

**MONDAY AFTERNOON, 16 FEBRUARY**

**1:00 - 4:42 PH.D PAPER COMPETITION**  
**\*Peachtree Ballroom A and B\***

**Moderator: Tahir Rashid, Alcorn State Univ.**

**1:30 (30)** Effects of fertilizer on Hemlock Woolly Adelgid, *Adelges tsugae* (Hemiptera: Adelgidae) growth on various hemlock species. **Joseph, S.V.**, S.K. Braman and J.L. Hanula. Dept. of Entomology, Univ. of Georgia [1, 2]; USDA Forest Service, Southern Research Station [3].

**1:42 (31)** Host plant nutritional components impacting sugarcane aphid feeding behavior and performance. **Akbar, W.**, A.T. Showler and T.E. Reagan. Dept. of Entomology, Louisiana State Univ. AgCenter [1,3]; USDA ARS Weslaco, TX [2].

**1:54 (32)** Within leaf distribution of *Thrips tabaci* (Thysanoptera: Thripidae) adults, eggs and Iris Yellow Spot

Virus (IYSV) on onion plants in the field. **Chitturi, A.**, D.G. Riley, R.D. Gitaitis and C. Nischwitz. Dept. of Entomology, Univ. of Georgia [1,2]; Dept. of Plant Pathology, Univ. of Georgia [3,4]

**2:06 (33)** Selection of cotton feeding sites by the Southern Green Stink Bug. **Huang, T.** and M.D. Toews. Dept. of Entomology, Univ. of Georgia [1,2].

**2:18 (34)** Oviposition behavior of Sugarcane Borer in Louisiana rice. **Sidhu, J.K.**, J.Hamm and M.J. Stout. Dept. of Entomology, Louisiana State Agricultural Center [1,2,3].

**2:30 (35)** Gradients in susceptibility of *Pieris taxa* to *Stephanitis* lace bugs. **Nair, S.**, S.K. Braman and D.A. Knauff. Dept. of Entomology, Univ. of Georgia [1,2]; Dept. of Horticulture, Univ. of Georgia [3].

**2:42 (36)** Identification of immature stages of picture-winged fly pests of corn. **Goyal, G.**, G.J. Steck, G.S. Nuessly, J.L. Capinera, D.R. Seal, and K.J. Boote. Everglades Research and Education Center, Belle Glade, FL [1,3]; Division of Plant Industry, Florida Department of Agriculture and Consumer Services, Gainesville, FL [2]; Entomology and Nematology, University of Florida, Gainesville, FL [4]; Tropical Research and Education Center, Homestead, FL [5]; Agronomy Department, Univ. of Florida, Gainesville, FL [6].

**2:54 (37)** Management of Corn Earworm, Fall Armyworm (Lepidoptera: Noctuidae), and Sugarcane Borer (Lepidoptera: Crambidae) with Viptera® Technology. **Hardke, J.T.**, B.R. Leonard and F. Huang. LSU AgCenter, Dept. of Entomology, Louisiana State Univ. [1,2,3]

### **3:10 - 3:30      BREAK—Prefunction Area**

**3:30 (38)** RNA interference-mediated knockdown of cadherin and aminopeptidase N genes in Sugarcane Borer. **Yang, Y.**, Y.C. Zhu, J. Ottea, C. Husseneder, B.R. Leonard and F. Huang. Dept. of Entomology, Louisiana State Univ. Agricultural Center [1,3,4,5,6]; Jamie Whitten Delta States Research Center, USDA-ARS [2].

**3:42 (39)** Comparing behavioral responses of a specialist (*Microplitis croceipes*) and generalist (*Cotesia marginiventris*) parasitoid to different types of host-related volatiles. **Ngumbi, E.**, and H. Fadamiro. Dept. of Entomology and Plant Pathology, Auburn Univ. [1,2].

**3:54 (40)** Host size selection in *Leptomastix dactylopii* and *Coccidoxenoides perminutus*, parasitoids of *Planococcus minor*. **Francis, A.W.**, M.T. Kairo and A.L. Roda. Center for Biological Control, Florida A&M Univ., Tallahassee, FL [1,2]; USDA-APHIS-PPQ-CPHST, Subtropical Horticulture Research Station, Miami, FL [3].

**4:06 (41)** Antennal lobe structure of a specialist parasitoid, *Microplitis croceipes*. **Das, P.**, and H. Fadamiro. Dept. of Entomology and Plant Pathology, Auburn Univ. [1,2]

**4:18 (42)** DNA methylation is widespread and associated with

caste differences in the honeybee. **Hunt, B.G.**, N. Elango, M.A. D. Goodisman, and S.V. Yi. School of Biology, Georgia Institute of Technology [1-4].

**4:30 (43)** Molecular phylogeny of *Reticulitermes* spp. of Georgia, USA. **Lim, S.Y.**, J.V. McHugh, T.M. Jenkins and B.T. Forschler. Dept. of Entomology, Univ. of Georgia [1,2,3,4].

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**MONDAY DISPLAY SESSION I,  
8 MARCH  
8:00 am - 5:00 pm  
\*Lenox Room\***

**Presenters should be at their posters from 1:30 - 2:30 pm  
Set Up  
Sunday 6:00 to 9:00 pm;  
Monday 7:00 to 8:00 am**

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**MS STUDENT COMPETITION**

**DSP 1** Toxicity interaction of fipronil and imidacloprid against *Coptotermes formosanus*. **Luo, P.**, and G. Henderson. Dept. of Entomology, Louisiana State Univ. AgCenter [1,2]

**DSP 2** Expression of immunity and toxicity response genes in Formosan Subterranean Termite workers and soldiers. **Simms, D. M.**, and C. Husseneder. Dept. of Entomology, Louisiana State Univ. AgCenter [1,2].

**DSP 3** The repellency of five essential oils against Argentine Ants. **Scocco, C.M.**, and D.R. Suiter. Dept. of Entomology, Univ. of Georgia [1,2].

**DSP 4** An assessment of the distribution and biology of native Siricidae and associated hymenopteran parasitoid species in the southeastern U.S.A. **Barnes, B.F.**, C. Asara, W. Johnson, J.R. Meeker, D.R. Miller and K.J.K Gandhi. Univ. of Georgia [1,6], Virginia Department of Forestry [2], USDA Forest Service [3-5].

**DSP 5** Flight patterns for pine engraver beetles (*Ips* spp.) in northeastern Georgia. **Brownell, K.A.**, D.R. Miller and K.J.K. Gandhi. Warnell School of Forestry and Natural Resources, Univ. of Georgia [1, 3]; USDA-Forest Service [2].

**DSP 6** Behavioral and antennal responses of the European Woodwasp (*Sirex noctilio*) to southern pine species. **Dinkins, J.**, J. Riggins, V. Mastro, K. Zylstra and K. Gandhi. Warnell School of Forestry, Univ. of Georgia [1, 5]; Dept. of Entomology and Plant Pathology, Mississippi State Univ. [2]; USDA, APHIS, PPQ Buzzards Bay, MA [3]; and USDA, APHIS, PPQ, Syracuse, NY [3].

**DSP 7** Tropical soda apple (*Solanum viarum*) mediated competition via induced resistance: Interaction between

*Gratiana boliviana*, *Spodoptera exigua* and *Frankliniella occidentalis*. **Kariuki, E.**, R.L. Hix, S. Reitz, S. Hight and M.T. Kairo. Florida A & M Univ., Center for Biological Control [1], USDA-ARS, CMAVE, Tallahassee [2].

**DSP 8** Development of a field protocol to assess stink bug-damaged soybean seed. **Moore, J.L.**, J.H. Temple and B.R. Leonard. LSU AgCenter, Dept. of Entomology, Louisiana State Univ. [1,2,3].

**DSP 9** Patterns of ground beetle (Coleoptera: Carabidae) diversity along Neotropical and Nearctic altitudinal gradients. **Maveety, S.A.**, and R.A. Browne. Dept. of Biology, Wake Forest Univ. [1,2]

### **PhD STUDENT COMPETITION**

**DSP 10** Establishment of predatory beetles against Hemlock Woolly Adelgid: It just takes time. **Hakeem, A.**, J.F. Grant, P.L. Lambdin, D. Buckley, F.A. Hale, R.J. Rhea, G.J. Wiggins and G. Taylor. Dept. of Entomology and Plant Pathology, Univ. of Tennessee, Knoxville [1,2,3,7]; Dept. of Forestry, Wildlife and Fisheries, Univ. of Tennessee [4]; Univ. of Tennessee, Soil, Plant and Pest Center, Nashville [5]; USDA Forest Service, Forest Health Protection, Asheville, NC [6]; Great Smoky Mountains National Park, Gatlinburg, TN [8].

**DSP 11** Survey for egg parasitoids attacking *Cactoblastis cactorum* in North Florida. **Paraiso, O.**, M.T.K. Kairo, S. Bloem and S. Hight. Center for Biological Control, Florida A&M University, Tallahassee, FL [1,2]; USDA-APHIS-PPQ, Raleigh, NC [3]; USDA-ARS, Tallahassee, FL [4]

**DSP 12** *Spodoptera frugiperda* cadherin binds and synergizes Cry1Fa toxicity. **Rahman, K.**, M.A.F. Abdullah, M.D. Taylor, and M.J. Adang. Dept. of Entomology, Univ. of Georgia [1,4]; InsectiGen, Inc., Athens, GA [2,3]; Dept. of Biochemistry and Molecular Biology, Univ. of Georgia [4].

**DSP 13** Development of a larval feeding disruption test to monitor resistance to Bt cotton in tobacco budworm, *Heliothis virescens* (Lepidoptera: Noctuidae). **Cabrera, A.R.**, J. VanKreschmar, C. Sorenson, H. Burrack, J. Bacheler, D. Mott and R.M. Roe. Dept. of Entomology, North Carolina State Univ. [1-7].

**DSP 14** Evaluation of various biological insecticides in regulating chilli thrips, *Scirtothrips dorsalis* on Jalapeno pepper crop. **Jha, K.V.**, D.R. Seal, D.J. Schuster, L.S. Osborne and G. Kakkar. Dept. of Entomology, Univ. of Florida [1-5].

**DSP 15** Contact and residual efficacy of novel insecticides to Sugarcane Borer, *Diatraea saccharalis* (F.) in grain sorghum. **Temple, J.H.**, F. Huang, T.E. Reagan, M. Ghimire, J. Hardke, P. Price and B.R. Leonard. Dept. of Entomology, Louisiana State Univ. AgCenter [1-7]

**DSP 16** An evaluation of Southern Pine Beetle and the Cost-Share Prevention program in Georgia. **Staeben, J.**, J. Johnson, N. Nibblink, J. Nowak and K.J.K. Gandhi. Warnell School of



Forestry and Natural Resources, University of Georgia [1,3,5]; Georgia Forestry Commission [2]; USDA Forest Service [4].

**DSP 17** Impacts of wood moisture content and temperature combinations on feeding and survival of the Formosan Subterranean Termite. **Gautam, B.K.**, and G. Henderson. Dept. of Entomology, Louisiana State Univ. Agricultural Center [1,2].

**DSP 18** Use of methyl salicylate as an attractant for the Rice Stinkbug, (*Oebalus pugnax*), a pest of rice in Louisiana. **Hamm, J.C.**, and M.J. Stout. Dept. of Entomology, Louisiana State Univ. AgCenter [1,2].

**DSP 19** Development of an alternative diet for rearing *Lucilia sericata* (Meigen) (Diptera: Calliphoridae). **Cammack, J.A.**, S.S. Denning, and D.W. Watson. Dept. of Entomology, North Carolina State Univ. [1,2,3].

**DSP 20** A non-destructive method of DNA extraction from small arthropods. **Swanson, D.A.** Dept. of Entomology, Soils & Sciences, Clemson Univ. [1].

### REGULAR POSTERS

### URBAN SYMPOSIUM

**DSP 21** The Georgia Survey: Opinions about pests and pesticides. **Guillebeau, L.P.** Dept. of Entomology, Univ. of Georgia [1].

**DSP 22** Using Fire Ant demonstrations to open the school IPM door. **Vail, K.M.**, J.G. Chandler, P.A. Barnwell and J.C. Maples. Dept. of Entomology and Plant Pathology, Univ. of Tennessee [1,2,3]; Forestry, Wildlife and Fisheries, Univ. of Tennessee [4].

### STRUCTURAL, VETERINARY, AND PUBLIC HEALTH SYSTEMS

**DSP 23** The current status of IPM implementation in North Carolina schools. **Nalyanya, G.** Dept. of Entomology, North Carolina State Univ. [1].

**DSP 24** Seasonal pitfall catch around urban structures. **Scocco, C.M.**, and D.R. Suiter. Dept. of Entomology, Univ. of Georgia [1,2].

**DSP 25** Distribution of the Brown Recluse Spider (Araneae: Sicariidae) in Georgia with comparison to poison center reports of envenomations. **Vetter, R.S.**, N.C. Hinkle and L.M. Ames. Dept. of Entomology, Univ. of California Riverside and Division of Biology, San Bernardino County Museum, Redlands, CA [1]; Dept. of Entomology, Univ. of Georgia [2]; Dept. of Entomology, University of Georgia [3].

**DSP 26** Temporal patterns of mosquito landing on human hosts: implications for surveillance and vector control. **Barnard, D.R.**, G.J. Knue and C.Z. Dickerson. USDA-ARS, Center for Medical, Agricultural, and Veterinary Entomology, Gainesville, Florida

[1,2,3].

**DSP 27** Antitermitic activities of lantana plants. **Yuan Z.L.**, and X.P. Hu. College of Agronomy and Plant Protection, Qingdao Agricultural Univ., China [1]; Dept. of Entomology and Plant Pathology, Auburn Univ. [2].

**DSP 28** Area-wide IPM of Formosan Subterranean Termites (*Coptotermes formosanus*) in the French Quarter, New Orleans, Louisiana: 2009. **Ring, D.R.**, A.L. Morgan, F.S. Guillot, A. Lax and C.R. McCown. Dept. of Entomology, Louisiana State Univ. Agricultural Center [1,2,5]; USDA-ARS-SRRC, New Orleans, LA [3,4].

**DSP 29** Effect of soil type and termite group size on Formosan Subterranean Termite (*Coptotermes formosanus*) tunneling through termiticide-treated barriers. **Wilberding, A.L.**, B.A. Wiltz and A.R. Lax. USDA-ARS SRRC, New Orleans, LA [1,2,3].

**DSP 30** Effect of soil properties on the performance of four termiticides against the Formosan Subterranean Termite (Isoptera: Rhinotermitidae). **Wiltz, B.A.** USDA-ARS SRRC, New Orleans, LA [1].

#### **SYSTEMATICS, EVOLUTION, AND BIODIVERSITY**

**DSP 31** Prevalence of DNA methylation in social insects. **Cunningham, T.C.**, B.G. Hunt and M.A.D. Goodisman. School of Biology, Georgia Institute of Technology [1,2,3].

**DSP 32** Sociality is linked to rates of protein evolution in a highly social insect. **Hunt, B.G.**, S. Wyder, N. Elango, J.H. Werren, E.M. Zdobnov, S.V. Yi and M.A.D. Goodisman. School of Biology, Georgia Institute of Technology [1,3,6,7]; Dept. of Genetic Medicine and Development, Univ. of Geneva Medical School & Swiss Institute of Bioinformatics [2,5]; Dept. of Biology, Univ. of Rochester [4].

#### **INTEGRATIVE PHYSIOLOGICAL AND MOLECULAR INSECT SYSTEMS**

**DSP 33** Supplementing cellulosic diet with phagostimulants changes the intestinal bacterial community in Formosan Subterranean Termites. **Sethi, A.**, J. Delatte and C. Husseneder. Dept. of Entomology, Louisiana State Univ. AgCenter [1,2,3].

**DSP 34** A novel course at North Carolina State University: Insect rearing science and technology. **Cohen, A.C.** Insect Diet and Rearing Research, LLC, and Dept. of Entomology, North Carolina State Univ. [1].

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**MONDAY EVENING, 16 FEBRUARY**

**5:00 – 7:30    Linnaean Games**  
**– Peachtree Ballroom A and B**

**7:30 – 9:30    Branch Mixer (open to all)**  
**Piedmont Room A and B**

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## TUESDAY, 9 MARCH

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- 7:00 - 8:00** Past Presidents Breakfast – Hotel Restaurant
- 7:00 - 5:00** Registration and ESA Certification Board Information – Prefunction Area
- 7:00 - 5:00** Audiovisual, Job Placement, Local Arrangements, and Public Relations – Magnolia Room
- 7:00 - 7:00** Office – Business Office
- 8:00 - 5:00** Display Presentations Session 2 (Physiology, P-IE, Turf/Ornamentals) – Lenox Room
- 8:00 - 10:05** Symposium: S-1034 Biological Control Regional Project — Piedmont Room B
- 8:00 - 9:45** Armyworm Symposium—Peachtree Ballroom A
- 8:00 - 9:12** Contributed Papers: Structural, Veterinary, and Public Health Systems—Piedmont A
- 9:12 - 9:48** Contributed Papers: Integrative Physiological and Molecular Insect Systems; Systematics, Evolution, and Biodiversity — Piedmont A
- 10:00 - 10:20** Break - Prefunction Area
- 10:20 - 11:44** Contributed Papers: Plant-Insect Ecosystems and Crop Pest Management – Piedmont Room B
- 10:20 - 11:56** Contributed Papers: Plant-Insect Ecosystems and Crop Pest Management – Piedmont Room A
- 12:00 - 1:30** Awards Luncheon—Peachtree Ballroom
- 1:30 - 2:30** Presenters of displays at Display Presentations – Lenox Room
- 1:30 - 3:30** Student Symposium: A Creature is a Creature — Contributions to the Study of Non-insect Arthropods - Piedmont Room B
- 1:30 - 3:20** Contributed Papers: Plant-Insect Ecosystems and Crop Pest Management—Piedmont Room A
- 3:30 - 3:50** Break - Prefunction Area
- 3:50 - 5:35** Urban Symposium— Piedmont Room B

- 3:50 - 4:50**      **Turf and Ornamental Symposium—**  
Peachtree Ballroom A
- 3:50 - 5:02**      **Contributed Papers: Plant-Insect**  
**Ecosystems and Crop Pest Management -**  
Piedmont Room A
- 6:00 - 7:30**      **SEB Final Business Meeting –** Piedmont  
Room A
- 7:30 - 8:30**      **SERA-IEG 23 Cotton Insects Meeting –**  
Piedmont Room A

## TUESDAY MORNING, 9 MARCH

8:00 - 10:05     S-1034 BIOLOGICAL CONTROL  
SYMPOSIUM  
\*Piedmont Room B\*

### Organizers and Moderators:

James Harwood, Univ. of Kentucky  
Kris Giles, Oklahoma State Univ.

8:00     Introductory comments. **Harwood, J., and K. Giles.**

8:05 (44) Classical biological control of the Red Palm Mite: Status and prospects. **Hoy, M.A.**, H. Bowman and A. Jeyaprakash. Dept. of Entomology and Nematology, Univ. of Florida [1,2,3].

8:20 (45) How to purchase high quality commercial predators. **Leppa, N.C.**, and K.L. Johnson III. Dept. of Entomology and Nematology, Univ. of Florida [1,2].

8:35 (46) Aphid predators and parasitoids in Southern Plains winter wheat systems and their role in pest suppression. **Giles, K.**, C. Mullins and D. Jones. Dept. of Entomology and Plant Pathology, Oklahoma State Univ. [1,2]; Univ. of Illinois Coop. Ext. Serv., Mount Vernon, IL [3].

8:50 (47) Aphids dictate caterpillar herbivory: The combined effects of induced plant defenses and apparent competition. **Ramirez, R.**, A. Szczepaniec and M. Eubanks. Dept. of Entomology, Texas A&M Univ. [1,2,3].

9:05 (48) Crop-specific mortality of Southern Green Stink Bug eggs. **Ruberson, J.R.**, and D. Olson. Dept. of Entomology, Univ. of Georgia [1]; USDA-ARS, CPRML, Tifton, GA [2].

9:20 (49) Alien versus predator: Survival of the forests. **Grant, J.F.** Dept. of Entomology and Plant Pathology, Univ. of Tennessee [1].

9:35 (50) Potential use of generalist predators for early-season control of crop pests . **Harwood, J.D.** Dept. of Entomology, Univ. of Kentucky [1].

9:50 (51) Predator biodiversity strengthens biological control. **Snyder, W.E.** Dept. of Entomology, Washington State Univ. [1].

10:05 - 10:20 **BREAK— Prefunction Area**

## TUESDAY MORNING, 9 MARCH

8:00 - 9:45      **ARMYWORM SYMPOSIUM**  
\*Peachtree Ballroom A\*

### Organizers And Moderators:

Xinzhi Ni — USDA-ARS  
Robert Meagher — USDA-ARS

**8:00 (52)** Host effects on fitness in two strains of the Fall Armyworm (Noctuidae) and a parasitoid of the family Eulophidae. **Hay-Roe, M.M.**, and R. Meagher. ARS, CMAVE, United States Department of Agriculture [1,2].

**8:15 (53)** Comparative susceptibility of Fall Armyworm host strains to selected insecticides. **Jackson, R.E.**, K.C. Allen and J.T. Hardke. USDA-ARS-SIMRU, Stoneville, MS [1,2]; Dept. of Entomology, Louisiana State Univ. [3].

**8:30 (54)** Foliar resistance to fall armyworm feeding in corn germplasm that confers root- and ear-feeding insect resistance. **Ni, X.**, Y. Chen, B.E. Hibbard, J.P. Wilson, W.P. Williams and G.D. Buntin. Crop Genetics and Breeding Research Unit, USDA-ARS, Tifton, GA [1,4]; Dept. of Entomology, Michigan State Univ. [2]; Plant Genetics Research Unit, USDA-ARS, Columbia, MO [3]; Corn Host Plant Resistance Research Unit, USDA-ARS, Mississippi State, MS [5]; Dept. of Entomology, Univ. of Georgia [6].

**8:45 (55)** Activity of new Bt traits for control of Fall Armyworm and Corn Earworm in field corn. **Buntin, G.D.**, and R.D. Lee. Dept. of Entomology, Univ. of Georgia [1,2].

**9:00 (56)** Toxicity of selected insecticides to control Fall Armyworm in laboratory bioassays. **Hardke, J.T.**, J.H. Temple and B.R. Leonard. LSU AgCenter, Dept. of Entomology, Louisiana State University [1,2,3].

**9:15 (57)** Monitoring two native *Spodoptera* species using an exotic pheromone lure. **Meagher, R.L.**, and J. Brambila. USDA-ARS [1]; USDA-APHIS [2].

**9:30 (58)** Insect-plant interaction of the generalist Beet Armyworm (*Spodoptera exigua*) and the specialist tortoise beetle (*Gratiana boliviana*) on the Tropical Soda Apple (*Solanum viarum*). **Kariuki, E.**, R.L. Hix, S. Reitz, S. Hight and M.T. Kairo. Florida A & M Univ., Center for Biological Control [1], USDA-ARS, CMAVE, Tallahassee [2].

**10:00 - 10:20 BREAK— Prefunction Area**

## TUESDAY MORNING, 17 FEBRUARY

**8:00 - 9:36 CONTRIBUTED PAPERS –  
Structural, Veterinary, and Public Health Systems;  
Integrative Physiological and Molecular Insect Systems;  
Systematics, Evolution, and Biodiversity  
\*Piedmont Room A\***

### **Moderator:**

Linda Smyth, BCE, Retired

**8:00 (59)** Back to the basic - local plant serves a repellent barrier against termite. **Hu, X.P.** Dept. of Entomology, Auburn Univ. [1].

**8:12 (60)** Public health pest perceptions of high school students. **Robinette, M.S.**, A.W. Gaertig and C.Y. Lester. Dept. of Entomology, Univ. of Georgia [1]; Cedar Shoals High School, Athens GA [1,3].

**8:24 (61)** House flies in the science classroom: Perspectives from a summer camp. **McKay, T.**, C.A. Ross, S. Vanderpool, and K. Yanowitz. Dept. of Biological Sciences, Arkansas State Univ. [1]; Dept. of Teacher Education, Arkansas State Univ. [2]; Dept. of Life and Physical Sciences, Lincoln Univ., Jefferson City, MO [3]; Dept. of Psychology and Counseling, Arkansas State Univ. [4].

**8:36 (62)** Veterinary implications of Human Ekbom Syndrome cases. **Hinkle, N.C.** Dept. of Entomology, Univ. of Georgia [1].

**8:48 (63)** Blood-feeding ecology in avian nests: Are nestlings preferred over adults? **Burkett-Cadena, N.D.**, R.A. Ligon, M. Liu, H.K. Hassan, G.E. Hill, M.D. Eubanks and T.R. Unnasch. Dept. of Entomology and Plant Pathology, Auburn Univ. [1]; Dept. of Biological Sciences, Auburn Univ. [2,4]; Dept. of Global Health, Univ. of South Florida [3,6]; Dept. of Entomology, Texas A&M Univ. [5].

**9:00 (64)** Balancing the blood meal nutrients in yellow fever mosquito, *Aedes aegypti*: role of insulin signaling. **Gulia, M.**, M.R. Strand and M.R. Brown. Dept. of Entomology, Univ. of Georgia [1-3].

**9:12 (65)** Biogeography of *Triatoma* on two barrier islands off the coast of Georgia, USA. **Roden, A.E.**, and B.T. Forschler. Dept. of Entomology, Univ. of Georgia [1,2].

**9:24 (66)** Butterfly beauties and dragonfly damsels - A review of the notable artisans in the late Victorian and Art Nouveau periods who used insect themes in their porcelain figurines. **Smyth, L.A.** BCE, Retired Associate Professor, Macon, GA [1].

**10:00 - 10:20 BREAK**— Prefunction Area



## TUESDAY MORNING, 9 MARCH

### 10:20 - 11:44 CONTRIBUTED PAPERS – Plant-Insect Ecosystems and Crop Pest Management Session 1 \*Piedmont Room B\*

#### Moderator:

B. Rogers Leonard, Louisiana State Univ.

**10:20 (67)** Stink bug and lepidopteran resistance in soybean germplasm containing IAC-100 in their pedigree. **McPherson, R.M.**, K.M. Rainey and G.R. Buss. Dept. of Entomology, Univ. of Georgia [1]; Soybean Plant Breeding, Virginia Tech [2,3].

**10:32 (68)** Re-evaluation of trap crops for managing stink bugs in soybean. **Davis, J.A.**, K.L. Kamminga, D.A. Herbert, Jr., S. Malone and A.R. Richter. Dept. of Entomology, Louisiana State Univ. AgCenter [1,2,5]; Dept. of Entomology, Virginia Tech [3,4].

**10:44 (69)** Temporal occurrence and seasonal abundance of the Redbanded Stink Bug, *Piezodorus guildinii* (Westwood) and other pentatomid pests in Louisiana. **Temple, J.H.**, J. Davis, J. Hardke, J. Moore, P. Price, S. Micinski and B.R. Leonard. LSU AgCenter, Dept. of Entomology [1-7].

**10:56 (70)** Impact of stink bugs in corn on other crops in southeastern farmscapes. **Tillman, P.G.** USDA-ARS-CPMRL, Tifton, GA [1].

**11:08 (71)** Farmscape dynamics of stink bugs in South Carolina. **Reay-Jones, F.P.F.**, J.K. Greene and M.D. Toews. Dept. of Entomology, Soils and Plant Sciences, Clemson Univ., Pee Dee Research and Education Center, Florence, SC [1]; Dept. of Entomology, Clemson University, Department of Entomology, Soils and Plant Sciences, Edisto Research and Education Center, Blackville, SC [2]; Dept. of Entomology, Univ. of Georgia, Tifton, GA [3].

**11:20 (72)** Stink bug reproductive potential in Georgia cotton, soybean, and peanut. **Herbert, J.J.**, and M.D. Toews. Dept. of Entomology Univ. of Georgia [1,2].

**11:32 (73)** First report of a mermithid parasitizing *Piezodorus guildinii* (Westwood) in the United States. **Kamminga, K.L.**, J.A. Davis, S.P. Stock and A.R. Richter. Dept. of Entomology, Louisiana State Univ. AgCenter [1,2,4]; Dept. of Entomology / Plant Sciences, Univ. of Arizona [3].

**12:00 - 1:30 AWARDS LUNCHEON**—Peachtree Ballroom A-C

## TUESDAY MORNING, 9 MARCH

**10:20 - 11:44 CONTRIBUTED PAPERS –  
Plant-Insect Ecosystems and Crop Pest Management  
Session 2  
\*Piedmont Room A\***

### **Moderator:**

Eric Riddick, USDA-ARS

**10:20 (74)** Entomopathogenic fungus, *Isaria fumosorosea*, and aphid parasitoid, *Lysiphlebus testaceipes*, for managing infestations of Brown Citrus Aphid, *Toxoptera citricida*. **Pick D.A.**, P.B. Avery, W.B. Hunter, C.A. Powel and D.G. Hall. Harriet L Wilkes Honors College, Florida Atlantic Univ. [1]; Univ. of Florida, Indian River Research and Education Center, Fort Pierce, FL [1,2,4]; USDA-ARS, U. S. Horticultural Research Laboratory, Subtropical Insect Research Unit, Ft. Pierce, FL [3,5].

**10:32 (75)** Influence of lima bean cultivar on life parameters of the mite-eating lady beetle *Stethorus punctillum*. **Riddick, E.W.**, M.G. Rojas, and Z. Wu. USDA-ARS, National Biological Control Laboratory, Stoneville MS [1,2,3].

**10:44 (76)** Spread of fire ant parasitic flies *Pseudacteon tricuspis* and *Pseudacteon curvatus* in Louisiana. **Meszáros, A.**, and S.J. Johnson. Dept. of Entomology, Louisiana State Univ. [1,2].

**10:56 (77)** Biological control of invasive species: Discrimination against immigrants or justifiable pesticide? **Kring, T. J.** Dept. of Entomology, Univ. of Arkansas [1].

**11:08 (78)** Can introduced biological control agents impact native thistles in Tennessee? **Wiggins, G.**, J. Grant, P. Lambdin, J. Ranney and J. Wilkerson. Dept. of Entomology and Plant Pathology, Univ. of Tennessee [1,2,3]; Energy, Environment, and Resources Center, Univ. of Tennessee [4]; Dept. of Biosystems Engineering and Soil Science, Univ. of Tennessee [5].

**11:20 (79)** The introduction of *Larinus minutus* Gyll. (Col., Curculionidae) to spotted knapweed populations in Arkansas. **Minteer, C.**, T.J. Kring, J. Shen and R.N. Wiedenmann. Dept. of Entomology, Univ. of Arkansas [1,2,3,4].

**11:32 (80)** Biology and host range of *Episimus unguiculus* (Lepidoptera: Tortricidae), a predated biological control agent of Brazilian peppertree, *Schinus terebinthifolius* (Sapindales: Anacardiaceae) for release in Florida. **Cuda, J.P.**, J.C. Medal, J.H. Pedrosa-Macedo, V. Manrique, P. Conant and W.A. Overholt.

**12:00 - 1:30 AWARDS LUNCHEON**—Peachtree Ballroom A-C

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**TUESDAY AFTERNOON, 9 MARCH**

**12:00 - 1:30      SEB AWARDS  
LUNCHEON  
\*Peachtree Ballroom A-C\***

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**TUESDAY AFTERNOON, 9 MARCH**

**1:30 - 3:35 STUDENT SYMPOSIUM  
\*Piedmont Room B\***

**Organizer and Moderator:**

Ana Cabrera, North Carolina State Univ.

**1:30** Introductory Comments, **Cabrera, A.** North Carolina State Univ. [1]

**1:35 (81)** Integrated mite management in strawberries: Southeastern challenges and strategies. **Burrack, H.J.** Dept. of Entomology, North Carolina State Univ. [1].

**1:55 (82)** Systematics of dermanyssoid mites (Acari: Dermanyssina) and the evolution of parasitism. **Dowling, A.P.G.** Dept. of Entomology, Univ. of Arkansas [1].

**2:15 (83)** Genetic and genomic studies of the predatory mite *Metaseiulus occidentalis*. **Hoy, M.A.** Dept. of Entomology and Nematology, Univ. of Florida [1].

**2:35 (84)** Time to failure trials of 2-tridecanone as a novel tick repellent. **Kimps, N.W.** Dept. of Entomology, North Carolina State Univ. [1].

**2:55 (85)** Management of twospotted spider mite (*Tetranychus urticae*) in vegetable systems. **Meck, E.D.** Dept. of Entomology, North Carolina State Univ. [1].

**3:15 (86)** Araneae and the importance of habitat structures for diversity. **Stellwagen, S.** Dept. of Entomology, Soils and Plant Sciences, Clemson Univ. [1].

**3:35 - 3:50 BREAK** — Prefunction Area

## TUESDAY AFTERNOON, 9 MARCH

### 1:30 - 3:30 CONTRIBUTED PAPERS – Plant-Insect Ecosystems and Crop Pest Management \*Piedmont Room A\*

#### Moderator:

Rufina Ward, Alabama A&M Univ.

**1:30 (87)** Biosecurity in Higher Education-the potential role for Entomology. **Hodges, A.C.** Dept. of Entomology and Nematology, Univ. of Florida [1].

**1:42 (88)** A new statewide insect survey and rapid IPM information dissemination system. **Majumdar, A.,** R. Boozer and H. Fadamiro. Alabama Cooperative Extension System, Auburn Univ. [1,2]; Dept. of Entomology and Plant Pathology, Auburn Univ. [3].

**1:54 (89)** Mitigating thrips populations with strip tillage and winter cover crops. **Toews, M.D.,** R.S. Tubbs, D.Q. Wann, D. Sullivan and P.M. Roberts. Dept. of Entomology, Univ. of Georgia [1,5]; Dept. of Crop and Soil Sciences, Univ. of Georgia [2,3]; USDA-ARS Southeast Watershed Research Laboratory [4]; current address: TurfScout LLC [4].

**2:06 (90)** Evaluation of foliar insecticide applications following preventative insecticide for control of thrips. **Akin, D.S.,** G. Lorenz, G. Studebaker, R. Leonard, S. Stewart, J. Reed, A. Catchot, D. Cook, J. Gore, C. Daves, R. Jackson, C. Allen, D. Kerns, M. Toews, P. Roberts, K. Tindall, A. Herbert, J. Greene and J. Bacheler. Univ. of Arkansas Cooperative Extension Service [1,2,3]; LSU AgCenter [4]; Univ. of Tennessee [5]; Mississippi State Univ. [6,7,8,9,10]; USDA-ARS, Stoneville, MS [11, 12]; Texas A&M AgriLife R&E [13]; Univ. of Georgia [14, 15]; Univ. of Missouri [16], Virginia Tech Univ. [17]; Clemson Univ. [18]; North Carolina State Univ. [19].

**2:18 (91)** Management of Tarnished Plant Bug in cotton in the Mid-South. **Cook, D.R.,** A.L. Catchot, J. Gore, B.R. Leonard, G. Lorenz and S.D. Stewart. Delta Research and Extension Center, Mississippi State Univ., Stoneville, MS [1,3]; Dept. of Entomology, Mississippi State Univ., Starkville, MS [2]; Macon Ridge Research Station, LSU AgCenter, Winnsboro, LA [4]; Cooperative Extension Service, Univ. of Arkansas, Lonoke, AR [5]; West Tennessee Research and Education Center, Univ. of Tennessee, Jackson, TN [6].

**2:30 (92)** Cultural control of Tarnished Plant Bugs. **Gore, J.,** D. Cook, A. Catchot, and R. Jackson. DREC, Mississippi State Univ. [1,2]; Dept. of Entomology, Mississippi State Univ. [3]; USDA-ARS, Stoneville, MS [4].

**2:42 (93)** Control of Tarnished Plant Bug, *Lygus lineolaris*, on Mid-South cotton with Dow AgroSciences Sulfoxaflor insecticide. **Siebert, M.W.,** L.C. Walton, R.B. Lassiter, R.A. Haygood, J.D. Thomas and J.S. Richburg. Dow Agrosciences LLC, Indianapolis, IN [1-6].

**2:54 (94)** Non-lethal impacts of novaluron insecticide on Tarnished Plant Bug adults. **Musser, F.R.**, and K.S. Knighten. Dept. of Entomology and Plant Pathology, Mississippi State Univ. [1,2].

**3:06 (95)** Threecornered Alfalfa Hopper - how much does lodging of soybeans plants influence yield? **Stewart, S.D.**, B.R. Leonard, D. Cook, D.S. Akin, G. Lorenz and J. Davis. Dept. of Entomology and Plant Pathology, Univ. of Tennessee [1]; Dept. of Entomology, LSU AgCenter [2,6]; Delta Research and Education Center, Mississippi State Univ. [3]; Dept. of Entomology, Univ. of Arkansas [4,5].

**3:18 (96)** Toxicity of citrus chemicals to the eulophid parasitoid *Tamarixia radiata*. **Hall, D.G.**, and R. Nguyen. USDA-ARS, Fort Pierce, FL [1]; FDACS-DPI, Gainesville, FL [2]

**3:30 - 3:50 BREAK** — Prefunction Area

## TUESDAY AFTERNOON, 9 MARCH

**1:30 - 3:35 URBAN SYMPOSIUM**  
**\*Piedmont Room B\***

### **Moderator:**

Joe Eger, Dow AgroSciences

**3:50 (97)** Field validation of subterranean termite (Isoptera, Rhinotermitidae) control with Recruit® HD, a new termite bait from Dow AgroSciences. **Eger, J.E.**, J.J. DeMark, J.A. McKern, M.P. Tolley, M.D. Lees, M.L. Fisher, R.L. Hamm, M.W. Melichar, M. Messenger and E.M. Thoms. Dow AgroSciences, Tampa, FL [1]; Dow AgroSciences, Fayetteville, AR [2]; Dow AgroSciences, Christianburg, VA [3]; Dow AgroSciences, Indianapolis, IN [4,7,8]; Dow AgroSciences, Granite Bay, CA [5]; Dow AgroSciences, Fresno, CA [6]; USDA-APHIS, VS, NCAHP, Alexandria, VA [9]; Dow AgroSciences, Gainesville, FL [10].

**4:05 (98)** Cues for termite aggregation during foraging. **Nagendra, N.H.**, B.K. Gautam and G. Henderson. Dept. of Entomology, Louisiana State Univ. Agricultural Center [1,2,3].

**4:20 (99)** The impact of harborage on occasional invaders. **Scocco, C.M.**, and D.R. Suiter. Dept. of Entomology, Univ. of Georgia [1,2].

**4:35 (100)** Where the kudzu grows: A new nuisance pest in Northeast Georgia. **Suiter, D.R.**, J. Eger, L.M Ames, T. Jenkins, G.D. Buntin and P. Roberts. Dept. of Entomology, Univ. of Georgia [1,3-6]; Dow AgroSciences [2].

**4:50 (101)** The first New World record of *Megacopta cribraria* (Fabricius) (Heteroptera: Plataspidae) from Georgia: A serious home invader and potential legume pest. **Eger, J.E.**, L. Ames, D.R. Suiter, D.A. Rider, S.E. Halbert, T.M. Jenkins and T.J. Henry. Dow AgroSciences, Tampa, FL [1]; Dept. of

Entomology, Univ. of Georgia [2,3,6]; Dept. of Entomology, North Dakota State Univ. [4]; Florida State Collection of Arthropods, Florida Dept. of Agric. and Consumer Sciences, Gainesville [5]; USDA-ARS Systematic Entomology Laboratory, Washington DC [7].

**5:05 (102)** Will an endosymbiont help the new Asian Plataspid, *Megacopta cribraria* (Hemiptera: Plataspidae), discovered in North America expand beyond an urban nuisance? **Jenkins, T.M.**, and T.D. Eaton. Dept. of Entomology, Univ. of Georgia [1,2].

**5:20 (103)** A population genetic perspective of the first Asian *Megacopta* species discovered in North America. **Eaton, T.D.**, and T.M. Jenkins. Dept. of Entomology, Univ. of Georgia [1,2].

## TUESDAY AFTERNOON, 9 MARCH

1:30 - 3:35 TURF AND ORNAMENTAL SYMPOSIUM  
\*Peachtree Ballroom A\*

### Moderator:

Juang-Horng Chong, Clemson Univ.

**3:50 (104)** Evaluation of two coccinellids, *Cryptolaemus montrouzieri* and *Lindorus (=Rhizobius) lophanthae*, as biocontrol agents of soft green scale, *Coccus viridis*. **Arthurs, S.**, A.D. Ali and J.-H. Chong. Univ. of Florida, Mid-Florida Research and Education Center, Apopka [1]; Davey Institute, Alva, FL [2]; Dept. of Entomology, Soils, and Plant Sciences, Clemson Univ. [3].

**4:05 (105)** Phenology of the oak lecanium scale, *Parthenolecanium quercifex*. **Chong, J.-H.** Dept. of Entomology, Soils, and Plant Sciences, Clemson University [1].

**4:20 (106)** Interaction of chemistry and coverage for season-long control of Euonymus Scale. **Frank, S.D.** Dept. of Entomology, North Carolina State Univ. [1].

**4:35 (107)** What's up with whiteflies in South Florida? **Mannion, C.M.** Tropical Research and Education Center, Univ. of Florida [1].

## TUESDAY AFTERNOON, 9 MARCH

3:50 - 5:02 CONTRIBUTED PAPERS –  
Plant-Insect Ecosystems and Crop Pest Management  
\*Piedmont Room A\*

### Moderator:

Rizana Mahroof, South Carolina State Univ.

**3:50 (108)** Biofuel crops and pest management. **Wiedenmann, R.N.**, T.N. Wood, S. Raghu and J.L. Spencer. Dept of Entomology, Univ. of Arkansas [1,2]; Arid Zone Research Institute [3]; Illinois Natural History Survey [4].

**4:02 (109)** Occurrence and damage of Hessian fly on commonly planted wheat varieties in Louisiana. **Ghimire, M.N.**, S. Harrison, B.R. Leonard, P.P. Price and F. Huang. Dept. of Entomology, Louisiana State Univ. AgCenter [1,5]; School of Plant, Environmental & Soil Sciences, Louisiana State Univ. AgCenter [2], Macon Ridge Research Station, Louisiana State Univ. AgCenter [3, 4].

**4:14 (110)** Impact of tree canopy heights on Lesser Peachtree Borer and Peachtree Borer flight. **Horton, D.**, T. Cottrell and J. Fuest. Dept. of Entomology, Univ. of GA, Athens, GA [1, 3]; USDA-ARS, SE Fruit & Tree Nut Research Laboratory, Byron, GA [2].

**4:26 (111)** Pecan nut casebearer in Arkansas: Seasonal biology and management options via an ipmPIPE project. **Luttrell, R.G.**, J.A. Smith, R.N. Wiedenmann, J.K. Barnes, and M.K. Harris. Dept. of Entomology, Univ. of Arkansas [1-5].

**4:38 (112)** Integrated control of foliage feeding aphids in pecan orchards. **Dutcher, J.D.** Dept. of Entomology, Univ. of Georgia [1].

**4:50 (113)** SmartStax stacked Bt trait corn technology: A three year performance summary against key above ground southern U.S. pests. **Siebert, M.W.**, E. Scherder, L.C. Walton, P. Prasifka and W.H. Hendrix, III. Dow Agrosiences LLC, Indianapolis, IN [1-5].

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**TUESDAY DISPLAY SESSION II,  
9 MARCH  
8:00 am - 5:00 pm  
\*Lenox Room\***

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**Presenters should be at their posters from 1:30 - 2:30 pm  
Set Up  
Monday 6:00 to 9:00 pm;  
Tuesday 7:00 to 8:00 am**

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**PLANT-INSECT ECOSYSTEMS  
SYSTEMATICS, EVOLUTION, AND BIODIVERSITY**

**DSP 35** Efficacy of insecticide rotations against Corn Earworm and Fall Armyworm in fall sweet corn production. **Sparks, A.N.** Dept. of Entomology, Univ. of Georgia [1].

**DSP 36** Behavioral response of two Fall Armyworm (*Spodoptera frugiperda*) strains in dual-toxin Bt cottons. **Akin, D.S.**, R.E. Jackson and J.E. Howard. Univ. of Arkansas Cooperative Extension Service [1, 3]; USDA-ARS, Stoneville, MS [2].

**DSP 37** Residual activity of thiamethoxam seed treatments on rice water weevil. **Lanka, S.K.**, and M.J. Stout. Dept. of Entomology, Louisiana State Univ. [1,2].

**DSP 38** Impact on growth of rice plants from seed damaged by the Rice Stink Bug. **Bernhardt, J.L.** Dept. of Entomology, Univ. of Arkansas [1].

**DSP 39** Efficacy of insecticides against plant bugs in Arkansas cotton. **Stuebaker, G.E.**, and S. Lancaster. Univ. of Arkansas Cooperative Extension Service [1,2].

**DSP 40** Small-scale field tests of attract-and-kill stations for pest tephritid fruit flies. **Epsky, N.D.**, M. Gill, P.E. Kendra, J. Crane and R.R. Heath. SHRS, USDA/ARS [1,2,3,5]; Tropical Research & Education Center, Univ. of Florida [4].

**DSP 41** Number of *Anastrepha obliqua* larvae per gram of fruit varies geographically in Puerto Rico. **Jenkins, D.A.**, and R. Goenaga. USDA-ARS-Tropical Agriculture Research Station, Mayaguez, Puerto Rico [1,2].

**DSP 42** Management of Lesser Cornstalk Borer in soybean. **All, J.**, and R. Boerma. Dept. of Crop and Soil Sciences, Univ. of Georgia [1]; Dept. of Crop and Soil Sciences, Univ. of Georgia [2].

**DSP 43** Stink bug management on cotton in the Southeast: From concept to delivery. **Bacheler, J.**, A. Herbert, E. Blinka, J. Greene, P. Roberts, M. Toews, J. Van Duyn, and R. Smith.

**DSP 44** Impact of thrips damage on cotton growth dynamics. **Roberts, P.M.**, and M. Toews. Dept. of Entomology, Univ. of Georgia [1,2].



**DSP 45** Economic impact of dual-toxin Bt cottons in Arkansas. **Akin, D.S.**, G. Lorenz, G. Studebaker, and A. Flanders. Univ. of Arkansas Division of Agriculture, Cooperative Extension Service [1-4].

**DSP 46** Frequency of alleles conferring resistance to transgenic corn expressing single and multiple Bt genes in Louisiana and Mississippi populations of the Sugarcane Borer. **Huang, F.**, M. Ghimire, B.R. Leonard, C. Daves, D. Cook, R. Levy, G.P. Head, J. Temple, R. Ferguson, Y. Yang and K. Kafle. Dept. of Entomology, Louisiana State Univ. AgCenter [1,2,3,8,10,11]; Central MS Research & Ext Center, Mississippi State Univ. [4]; Delta Research and Extension Center, Mississippi State Univ. [5]; Dean Lee Research Station, Entomology, Louisiana State AgCenter [6, 9]; Monsanto Company [7].

**DSP 47** Pushing second-generation Bt cotton to the breaking point in South Carolina. **Greene, J.K.**, and D Robinson. Dept. of Entomology, Soils, and Plant Sciences, Clemson University, Blackville, SC [1,2].

**DSP 48** Biology of the exotic white grub, *Plectris aliena*, in North Carolina sweetpotato. **Abney, M.R.**, and N.L. Maxwell. Dept. of Entomology, North Carolina State Univ. [1,2].

**DSP 49** Insect population monitoring and damage to sweetpotatoes. **Rashid, T.**, C.A. Abel and L.C. Adams. Alcorn State University, Mound Bayou, MS [1]; USDA-ARS SIMRU, Stoneville, MS [2,3].

**DSP 50** Evaluating Silverleaf Whitefly oviposition on giant red mustard and other vegetable crops. **Legaspi, J.C.**, and N.W. Miller. USDA, ARS, CMAVE / FAMU-CBC [1,2].

**DSP 51** Resistance among *Canna* spp. cultivars to the Lesser Canna Leafroller and the Japanese Beetle. **Carr, E.R.**, and S.K. Braman. Dept. of Entomology, Univ. of Georgia [1,2].

**DSP 52** Responses of soil Oribatid mites (Acari:Oribatida) to invasive earthworms in a hardwood forest. **Burke, J.L.**, J.R. Milanovich, J.C. Maerz and K.J.K. Gandhi. Warnell School of Forestry and Natural Resources, Univ. of Georgia [1-4].

**DSP 53** Influence of overstory retention levels on ground beetle assemblages in upland forests of the Cumberland Plateau. **Howell, H.**, K. Ward and R. Ward. Department of Natural Resources and Environmental Sciences, Alabama A&M Univ. [1,2,3].

**DSP 54** Biodiversity of biting midges (Diptera: Ceratopogonidae) in the Mobile-Tensaw Delta of Alabama. **Swanson, D.A.**, W.L. Grogan, Jr., and J. McCreadie. Dept. of Entomology, Soils & Plant Sciences, Clemson Univ. [1]; Florida Dept. of Agriculture & Consumer Services [2]; Dept. of Biology, Univ. of South Alabama [3].

**DSP 55** Aquatic and terrestrial wildlife community responses to forest management practices in the Bankhead National Forest: Preliminary results on Ephemeroptera, Plecoptera and Trichoptera assemblages. **Ward, R.**, H. Howell and W. Stone.

Department of Natural Resources and Environmental Sciences,  
Alabama A&M Univ. [1,2,3].

**DSP 56** Identification of volatile chemicals from host trees of a Redbay Ambrosia Beetle, the vector of Laurel Wilt. **Niogret J.**, P.E. Kendra, N.D. Epsky and R.R. Heath. USDA-ARS-MIAMI, Subtropical Horticulture Research Station, Miami FL [1,2,3,4].

**DSP 57** Cage-fighting bees: Can aggressive competition increase pollination efficacy for an oligolectic native bee? **Sampson, B.J.**, and C.T. Werle. USDA-ARS Thad Cochran Southern Horticultural Laboratory [1,2].

**DSP 58** *Aprostocetus xiphopunctus* Sampson nov. sp. (Hymenoptera: Eulophidae): A new natural enemy of a gall midge complex (Diptera: Cecidomyiidae) associated with cultivated blueberry. **Sampson, B.J.**, and C.T. Werle. USDA-ARS Thad Cochran Southern Horticultural Laboratory [1,2].

**DSP 59** *Rhinoleucophenga capixabensis* and other new species of predators of scale insect pests from Espirito Santo, Brazil. **Culik, M.P.**, V.C. Maia and J.A. Ventura. Instituto Capixaba de Pesquisa, Assistência Técnica e Extensão Rural -INCAPER, Vitória, Espirito Santo, Brazil [1,3]; Museu Nacional - Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil [2].

**DSP 60** Survival and sex ratio of *Phytoseiulus persimilis* at fluctuating and constant temperatures. **Rojas, M.G.**, and J.A. Morales-Ramos. USDA ARS MSA BCPRU[1,2].

**DSP 61** Laboratory rearing of the blow fly predator *Creophilus maxillosus* (L.) (Coleoptera: Staphylinidae). **Watson-Horzelski, E.J.**, and A.C. Clark. Dept. of Biological Sciences, Southeastern Louisiana University [1, 2].

**DSP 62** Nutrient regulation in *Tenebrio molitor* (Coleoptera: Tenebrionidae). **Morales-Ramos, J.A.**, M.G. Rojas, D.I. Shapiro-Ilan and L. Tedders. USDA ARS MSA BCPRU [1,2]; USDA ARS SAA SE F&TNRU [3]; Southeastern Insectaries [4].

### **TURF AND ORNAMENTAL SYMPOSIUM**

**DSP 63** Effect of manual and airblast insecticide applications on natural enemy abundance in nurseries. **Youngs, K.**, and S.D. Frank. Dept. of Entomology, North Carolina State Univ. [1,2].

**DSP 64** Method of mass rearing for Japanese Beetle larvae in Arkansas. **Petty, B.M.**, and D.C. Steinkraus. Dept. of Entomology, Univ. of Arkansas [1,2].

**DSP 65** The effect of banker plant species on *Aphidius colemani* development. **Dale, A.**, and S.D. Frank. Dept. of Entomology, North Carolina State Univ. [1,2].

**DSP 66** An IPM Approach to gall-making insects and mites. **Hale, F.A.** Dept. of Entomology and Plant Pathology, Univ. of Tennessee [1].

**DSP 67** Control of Hemlock Woolly Adelgid with neonicotinoids in the Southeastern US. **Braman, S.K.**, J. Hanula, S. Joseph, J. Quick and M. Cummings. Dept. of Entomology, Univ. of Georgia [1,3,4]; USDA Forest Service, Southern Research Station [2], Coop. Ext. Serv., Univ. of Georgia, Union Co.[5].

**DSP 68** Influence of hemlock species and fertilization on feeding preference of specialist predators of Hemlock Woolly Adelgid. **Joseph, S.V.**, Braman, S.K., and J. Hanula. Dept. of Entomology, Univ. of Georgia [1,2]; USDA Forest Service, Southern Research Station [3].

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**TUESDAY EVENING, 9 MARCH**

**6:00 - 7:30**      **SEB FINAL  
BUSINESS MEETING**  
**\*Piedmont Room A\***

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**TUESDAY EVENING, 9 MARCH**

**7:30 - 8:30**      **SERA-IEG 23 Cotton Insects  
Meeting**  
**\*Piedmont Room A\***

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# **PROGRAM SUMMARY**

**WEDNESDAY, 10 MARCH**

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- 7:00 - 9:30**      **Audiovisual, Job Placement, Local Arrangements, and Public Relations – Magnolia Room**
- 8:00 - 9:30**      **Vegetable Symposium—Piedmont Room B**
- 8:00 - 9:24**      **Contributed Papers: Plant-Insect Ecosystems and Crop Pest Management - Piedmont Room A**
- 8:00 - 12:00**    **Urban IPM eXtension Work Group – Chastain Room**

## WEDNESDAY MORNING, 10 MARCH

8:00 - 9:30 VEGETABLE SYMPOSIUM  
\*Piedmont Room B\*

### Moderator:

Abner Hammond, Louisiana State Univ.

8:00 (114) Monitoring for insecticide resistance in *Bemisia tabaci* in southern **Cancelled** **D.J.**, and S. Cyman. Gulf Coast Research & Education Center, Univ. of Florida [1,2].

8:15 (115) Releases and evaluation of three predators for whitefly management in vegetables. **Simmons, A.M.**, and S. Abd-Rabou. USDA, ARS, U.S. Vegetable Laboratory, Charleston, SC [1]; Agric. Research Center, Plant Protection Research Institute, Dokki, Egypt [2].

8:30 (116) Tomato Yellow Curl Virus: Vector-virus relationships in Georgia's tomato systems. **Srinivasan, R.**, D. Riley, S. Diffie, A. Sparks, and S. Adkins. Dept. of Entomology, Univ. of Georgia [1-4]; USDA-ARS, Fort Pierce, FL [5].

8:45 (117) Evaluating *Orius insidiosus* as a potential biocontrol agent of Melon Thrips, *Thrips palmi* Karny (Thysanoptera: Thripidae) in South Florida. **Seal, D.R.**, and G. Kakkar. Dept. of Entomology, Univ. of Florida [1-2].

9:00 (118) Evaluation of soil insecticides for control of Sugarcane Beetle in sweet potato. **Smith, T.P.**, A.M. Hammond and R.N. Story.

9:15 (119) Bioefficacy of rynaxypyr and cyazypyr in cucurbit vine crops. **Riley, D.G.**, and S. McKinney. Dept. of Entomology, Univ. of Georgia [1,2].

## WEDNESDAY MORNING, 10 MARCH

8:00 - 9:12 CONTRIBUTED PAPERS –  
Plant-Insect Ecosystems  
\*Piedmont Room A\*

### Moderator:

Greg Nuessly, Univ. of Florida

8:00 (120) The damaged boll survey: Insights into cotton pest shifts before and following the introduction of Bollgard cotton in North Carolina. **Bacheler, J.** Dept. of Entomology, North Carolina State Univ. [1].

8:12 (121) Glassy-winged Sharpshooter response to congeners: Behavioral parsimony solves top-down and bottom-up risks.

**Mizell, R.F.**, P.C. Andersen and B.V. Brodbeck. NFREC-Quincy, Univ. of Florida [1,2,3].

**8:24 (122)** Species complex, ecology and management of flea beetles in southern highbush blueberries. **Liburd, O.E.**, and T.W. Nyoike. Dept. of Entomology and Nematology, Univ. of Florida [1,2].

**8:36 (123)** Distribution of corn-infesting picture-winged flies in the southeastern United States. **Nuessly, G.S.**, G. Goyal, X. Ni, A. Sparks, D. Buntin, F. Huang, B.R. Leonard, P.J. McLeod, C. Daves and AM. Simmons. Everglades Res. & Ext. Center, Univ. of Florida [1,2]; CGBRU, USDA-ARS [3]; Dept. of Entomology, Univ of Georgia [4,5]; Dept. of Entomology, Louisiana State Univ. AgCenter [6]; Dept. of Entomology, Univ. of Arkansas [7]; CMREC, Mississippi State University [8]; USVL, USDA-ARS [9].

**8:48 (124)** Monitoring and managing Tobacco Splitworms in tobacco. **McPherson, R.M.**, C.W. Stephens and J.M. Moore. Dept. of Entomology, Univ. of Georgia [1,2]; Dept. of Crop and Soil Sciences, Univ. of Georgia [3].

**9:00 (125)** Coastal dune insect communities in Kaiafas coast, Peloponnese, Greece. **Petrakis, P.V.** IMFA, Laboratory of Entomology, Athens, Greece [1].

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### WEDNESDAY MORNING, 10 MARCH

**8:00 – 9:12 URBAN IPM eXTENSION WORK GROUP**

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**\*Chastain Room\***

**Organizer and Moderator:**

**Faith Oi,**

**Dept. of Entomology and Nematology, Univ. of Florida**

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**See You in Puerto Rico in 2011!**



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**PAST PRESIDENTS OF THE ESA-SEB**  
**(formerly the *Cotton States Branch*)**

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<u>Name</u>	<u>Date</u>	<u>Meeting Site</u>
W. E. Hinds	3-4 Feb. 1926	Atlanta, GA
F. Sherman	2-3 Feb. 1927	Atlanta, GA
G. M. Bentley	29 Dec. 1927	Nashville, TN
G. M. Bentley	1-2 Feb. 1928	Memphis, TN
F. L. Thomas	6-7 Feb. 1929	Houston TX
B. R. Coad	6-7 Feb. 1930	Jackson, FL
J. M. Robinson	5-6 Feb. 1931	Atlanta, GA
R. W. Harned	31 Dec. 1931	New Orleans, LA
R. W. Harned	3-4 Feb. 1932	Birmingham, AL
J. W. Folsom	2-3 Feb. 1933	New Orleans, LA
R.W. Leiby	1-2 Feb. 1934	Memphis, TN
S. W. Bilsing	31 Jan. - 2 Feb. 1935	Atlanta, GA
C. Lyle	5-6 Feb. 1936	Jackson, MS
W. E. Anderson	18-20 Feb. 1937	San Antonio, TX
W. E. Dove	3-5 Feb. 1938	New Orleans, LA
C. O. Eddy	21-23 Feb. 1939	Tampa, FL
O. I. Snapp	7-9 Feb. 1940	Birmingham, AL
Z. P. Metcalf	5-8 Feb. 1941	Waco, TX
F. A. Fenton	4-6 Feb. 1942	Memphis, TN
O. W. Rosewall	1-3 Feb. 1944	New Orleans, LA
E. W. Laake	24-25 Jan. 1945	New Orleans, LA
C. E. Smith	3-6 Dec. 1945	Dallas, TX
R. C. Gaines	11-16 Jan. 1947	Biloxi, MS
D. Isley	4-6 Feb. 1948	Atlanta, GA
J. T. Creighton	31 Jan. - 2 Feb. 1949	Baton Rouge, LA
E. W. Dunnam	13-16 Dec. 1949	Tampa, FL
J. W. Ingram	5-7 Feb. 1951	Memphis, TN
C. H. Alden	4-6 Feb. 1952	Atlanta, GA
K. L. Cockerham	9-11 Feb. 1953	New Orleans, LA
F. S. Arant	25-27 Jan. 1954	Biloxi, MS
W. G. Bruce	17-19 Jan. 1955	Tampa, FL
H. C. Young	6-8 Feb. 1956	Atlanta, GA
A. N. Tissot	4-6 Feb. 1957	Birmingham, AL
N. Allen	2-5 Dec. 1957	Memphis, TN
C. G. Lincoln	2-4 Feb. 1959	Memphis, TN
F. E. Guyton	25-27 Jan. 1960	Savannah, GA
I. J. Becnel	23-25 Jan. 1961	Mobile, AL
C. N. Smith	27-30 Nov. 1961	Miami, FL
R. J. Kowal	29-31 Jan. 1963	Jackson, MS
W. C. Nettles	28-29 Jan. 1964	Asheville, NC
L. D. Newsom	25-26 Jan. 1965	Little Rock, AR
J. C. Alden	29 Nov. - 2 Dec. 1965	New Orleans, LA
M. E. Merkl	30 Jan. - 2 Feb. 1967	Atlanta, GA
J. S. Roussel	29 Jan. - 1 Feb. 1968	Charleston, SC
C. M. Beckham	27-30 Jan. 1969	Biloxi, MS
S. R. Morris	26-29 Jan. 1970	Hot Springs, AR
W. G. Eden	30 Nov. - 3 Dec. 1970	Miami, FL
C. R. Jordan	1-3 Feb. 1972	Mobile, AL
C. F. Smith	30 Jan. - 1 Feb. 1973	Savannah, GA
T. R. Pfrimmer	9-31 Jan. 1974	Memphis, TN
S. B. Hays	28-30 Jan. 1975	Raleigh, NC
T. D. Canerday	30 Nov. - 3 Dec. 1975	New Orleans, LA
J. B. Graves	25-27 Jan. 1977	Charleston, SC
A. N. Sparks	24-26 Jan. 1978	Gainesville, FL
F. G. Maxwell	23-25 Jan. 1979	Nashville, TN
S. G. Turnipseed	29-31 Jan. 1980	Biloxi, MS
D. F. Martin	30 Nov. - 4 Dec. 1980	Atlanta, GA
J. E. Paine, Sr.	25-28 Jan. 1982	Mobile, AL
R. L. Rabb	24-27 Jan. 1983	Little Rock, AR
K. L. Hays	23-26 Jan. 1984	New Orleans, LA
G. J. Musick	28-31 Jan. 1985	Greenville, SC
M. H. Bass	8-12 Dec. 1985	Hollywood, FL
D. V. Allemann	26-29 Jan. 1987	Jackson, MS
B. R. Wiseman	25-28 Jan. 1988	Raleigh, NC

<u>Name</u>	<u>Date</u>	<u>Meeting Site</u>
T. E. Skelton	30 Jan. - 2 Feb. 1989	Nashville, TN
J. W. Todd	4-8 Feb. 1990	Orlando, FL
E. R. Mitchell	10-13 Mar. 1991	Orange Beach, AL
D. J. Boethel	8-11 Mar. 1992	Savannah, GA
G. A. Herzog	7-10 Mar. 1993	Little Rock, AR
R. E. Lynch	6-9 Mar. 1994	Baton Rouge, LA
J. E. Eger	5-8 Mar. 1995	Charleston, SC
D. C. Herzog	3-6 Mar. 1996	Biloxi, MS
D. F. Williams	2-5 Mar. 1997	Asheville, NC
J. D. Culin	1-4 Mar. 1998	Chattanooga, TN
D. R. Johnson	28 Feb. - 3 Mar. 1999	Sandestin, FL
R. G. Luttrell	27 Feb. - 1 Mar. 2000	Mobile, AL
F. S. Guillot	4-7 Mar. 2001	Augusta, GA
G. L. Lentz	3-6 Mar. 2002	Little Rock, AR
B. L. Sparks	9-12 Mar. 2003	Baton Rouge, LA
M. L. Williams	16-18 Feb. 2004	Charleston, SC
G. R. Mullen	7-9 Mar. 2005	Tunica, MS
W. A. Gardner	5-8 Mar. 2006	Wilmington, NC
R. K. Sprenkel	2-5 Mar. 2007	Knoxville, TN
J. D. Harper	2-5 Mar. 2008	Jacksonville, FL
A. M. Simmons	8-11 Mar. 2009	Montgomery, AL
S. K. Braman	7-10 Mar 2010	Atlanta, GA

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## Doubletree Buckhead-Atlanta Hotel

### Driving Directions to hotel:

-From Downtown, Airport and Midtown: Take I-85 North to Exit 87 (GA. 400), follow to Exit 2, turn right onto Lenox Road, at second light turn right onto Peachtree Road, at third light take right into Tower Place complex. Hotel is located within complex. (In evening, complex is identifiable by large building with green neon dominating skyline)

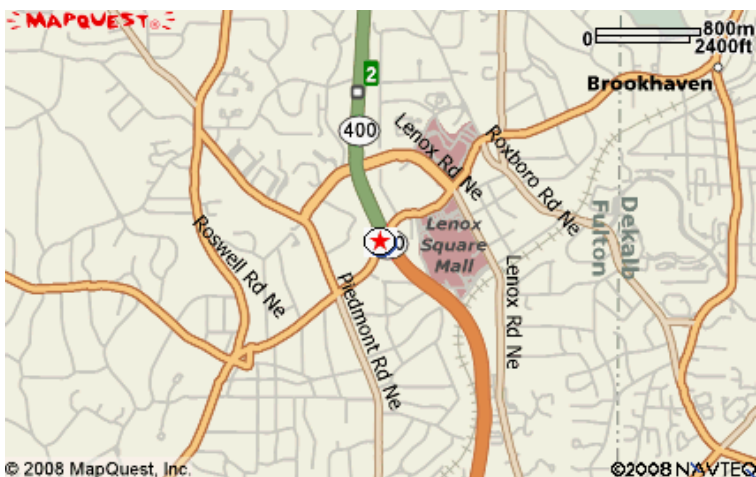
-From Norcross, Duluth and Greenville areas take I-85 South to Exit 88, turn right onto Lenox Road, follow to Peachtree Road and turn left. At fourth light turn right onto driveway of Tower Place complex, hotel is located within complex.

-From Macon, Georgia Coast or Florida take I-75 North - follow to I-85 North (see I-85 north directions above).

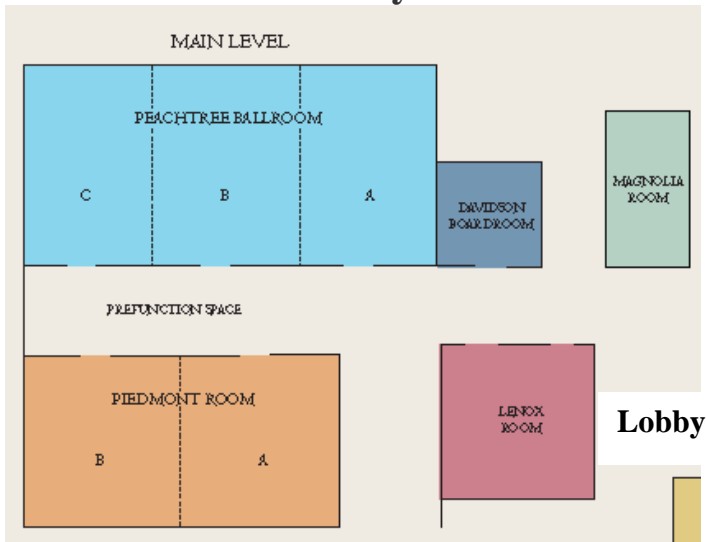
-From Birmingham, Augusta and Columbia take I-20 East or West - Take Exit 57 to I-85 North (see I-85 north directions above).

-From Alpharetta, Roswell and North Georgia Mountains take GA. 400 South (Toll) to Exit 2, Lenox Rd. turn right onto Lenox Rd. proceed to Piedmont Rd. Left onto Piedmont and then left into Tower Place complex (about 1/4 mile). Hotel is located in Tower Place complex. (In evening complex is identifiable by large building with green neon dominating skyline)

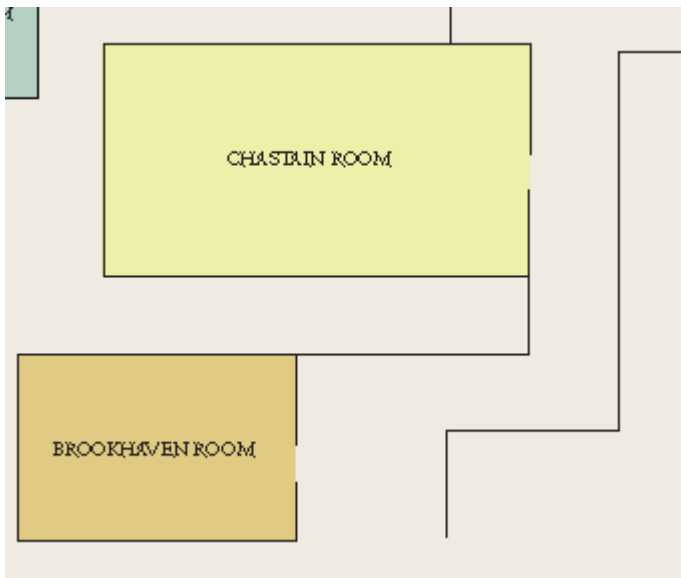
-From Chattanooga, Marietta and Nashville Take I-75 South to I-285 East to GA. 400 South, (continue directions above)



## Room Layout



### Main level



### Lower level

#### OTHER HOTEL INFORMATION

The Doubletree Hotel Atlanta-Buckhead is located in Tower Place on Peachtree Road, just off GA 400 and I-85, only 30 minutes from Hartsfield Jackson International Airport. **The Buckhead MARTA Station is 1.5 blocks from the hotel** and just a 10 minute ride to downtown Atlanta to the World of Coke, CNN and the Georgia Aquarium. MARTA also provides easy and convenient access to Philips Arena, Turner Field, Fox Theater, Atlanta History Center. The Lenox Mall and Phipps Plaza, two of Atlanta's premier shopping malls are just a few blocks away along with some of the best dining that Atlanta has to offer. Relax during a complimentary ride in our hotel shuttle which will take you anywhere within a 3 mile radius.