



**Southern Section  
of  
AOAC  
INTERNATIONAL**

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# **27<sup>th</sup> Annual Meeting**

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**Doubletree Hotel  
Buckhead**

**Atlanta  
Georgia**

**Monday-Tuesday**

**April 22-23**

**2013**

**“The Scientific Association  
Dedicated to Analytical Excellence”**

## SUMMARY OF EVENTS

### Sunday, April 21

- 9:00 – 4:30 PM**      **Short Course Chromatography and Mass Spectrometry**  
Lenox Room- Bill Holmes, Bill Brewer, Darrell Sparks
- 5:00 PM**              **Executive Committee Meeting** Lenox Room
- 6:00 PM**              **Exhibit & Poster Setup** Peachtree Ballroom

### Monday, April 22

**Exhibits & Posters 9:00 AM-4:00 PM** Peachtree Ballroom

- 7:30 AM – 4:00 PM**      **Registration**
- 8:30 AM – 10:15 AM**    **General Session** Piedmont Room
- 11:00 AM – 11:45 PM** **Workshops** Piedmont Rooms A and B
- 12:00 AM – 1:00 PM**    **Luncheon Workshop** Piedmont B
- 1:15 PM – 5:00 PM**    **Workshops** Piedmont Rooms A and B
- 5:00 PM – 8:00 PM**    **Evening Reception** Savannah's Restaurant

### Tuesday, April 23

**Exhibits & Posters 9:00 AM -3:15 PM** Peachtree Ballroom

- 7:30 AM – 12:00 PM**    **Registration**
- 8:30 AM – 12:00 PM**    **Microbiology Concurrent Session** Piedmont Room A  
**Chemistry Concurrent Session** Piedmont Room B
- 12:00 PM – 1:15 PM**    **Southern Section Luncheon** Savannah's Restaurant
- 1:30 – 4:30 PM**        **Microbiology Concurrent Session** Piedmont Room A  
**Chemistry Concurrent Session** Piedmont Room B



**Southern Section of AOAC INTERNATIONAL**  
*“The Scientific Association Dedicated to Analytical Excellence”*

April 22, 2013

Dear Colleagues,

Welcome to the 27<sup>th</sup> Annual Meeting of the Southern Section of AOAC INTERNATIONAL. President Elect, Bill Holmes along with the Executive Committee have put together an exciting program for you.

Monday, the meeting will start with the presentation of awards. The awards are given to volunteers that have served the section, by planning the annual meetings and staying active in the section. This year's recipient of the Anant Jain Founder's Award is Joe Rainey. Joe is a Past President and has provided many years of service to the section. The next award is the Doug Hite Honorarium and the recipient for 2013 is Doug Hite. Doug is the current Treasurer, on the AOAC INTERNATIONAL Board of Directors and has also provided many years of service to the section.

Following the awards, don't miss the keynote speech this year entitled "Food Safety Challenges Around the World" by Dr. William Benjy Mikel, Associate Vice President, International Programs, Executive Director, International Institute and Professor of Food Science Nutrition and Health Promotions at Mississippi State University.

Also on Monday, there will be workshops featuring the latest analytical technologies. Don't forget also to visit the exhibits during breaks. Without our exhibitors and sponsors we would not be able to have a section meeting. That evening we will have an opening reception with live entertainment and complimentary hors d'oeuvres.

Tuesday will be packed with informative presentations on the latest scientific innovations. There will be breakout sessions for Microbiology and Chemistry. The section will also sponsor a buffet luncheon that is complimentary with your registration. It is open to all exhibitors and attendees.

The technical posters will be on display throughout the entire meeting in the exhibit hall. So while you are visiting the exhibitors also stop by and see the posters.

Thank you for attending the 27<sup>th</sup> Annual Meeting of the Southern Section of AOAC INTERNATIONAL and letting me serve you as your section president. We are always looking for new colleagues to join the executive committee. If you would like to get involved please let me know.

With Much Appreciation,

Amy N. Brown, President  
Southern Section of AOAC INTERNATIONAL

**VENDORS 2013**

*Exhibit Area is open Monday from 9:00 AM to 4:00 PM  
and Tuesday from 9:00 AM to 3:00 PM (Peachtree Ballroom)*

**AB SCIEX  
AGILENT TECHNOLOGIES  
ANTON PAAR USA  
BIOTAGE  
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## BREAKS



## ATTENDEE BAGS

## NAME BADGE LANYARDS



## LUNCHEON WORKSHOP



## WORKSHOPS

ABSCIEX  
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THERMOFISHER SCIENTIFIC  
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## Monday, April 22 General Session

### Morning Session—Piedmont Room

- 8:30-8:40** Welcome—President  
**Amy Brown, Florida Department of Agriculture & Consumer Services**
- 8:40-8:45** Call to Order—President-Elect  
**Bill Holmes, Mississippi State University**
- 8:45-8:55** Presentation of the Anant Jain Founder's Award  
**Bill Holmes, Mississippi State University**
- Presentation of the Doug Hite Honorarium  
**Amy Brown, Florida Department of Agriculture & Consumer Services**
- 8:55-9:35** AOAC International Update  
**Arti Arora, Coca-Cola Company's Global Scientific and Regulatory Affairs Group**
- 9:35-10:15** Keynote Speaker  
**Dr. William Benjy Mikel, Associate Vice President, International Programs, Executive Director, International Institute and Professor of Food Science Nutrition and Health Promotions at Mississippi State University**  
"Food Safety Challenges Around the World"
- 10:15-11:00** Break—Cash Drawing and Door Prizes (Exhibit Hall)  
**VISIT EXHIBITORS AND POSTERS**

### Morning Session Workshops Piedmont Rooms A and B

**Moderator Piedmont Room A:** Bill Brewer  
**Moderator Piedmont Room B:** Darrell Sparks

- 11:00-11:45** **Room A** Screening Food for Adulterants and Contaminants with Direct Sample Analysis (DSA/TOF) Mass Spectrometry  
**Perkin Elmer**
- Room B** An Innovative Approach to Pathogen Detection  
**Roka-Bioscience**
- 11:45-12:00** **Cash Drawing and Door Prizes (Foyer)**

**Monday, April 22, Luncheon Session--Workshop**  
**Workshop includes lunch so please sign up at the registration desk**  
**Monday morning, limited to the first 50 attendees**

**12:00-1:00 Room A** Chemical Residue Analysis in Veg Matrix and Water using EVOQ  
**Bruker Daltonics**

**Monday, April 22, Afternoon Session--Workshops**

**Moderator Piedmont Room A:** Bill Brewer

**Moderator Piedmont Room B:** Darrell Sparks

**1:15-2:00 Room A** Advanced Tools for Targeted Quant and Non-Targeted Screening for Food Residues by LC-MS/MS  
**AB SCIEX**

**Room B** Sample Preparation Strategies to Address Current Topics Related to the Adulteration of Commercial Milk Products  
**Biotage**

**2:00-2:45 Room A** Novel Scientific Information System Evaluated for Semi-Quantitative High Throughput Screening of Pesticide Residues in Food  
**Waters Corporation**

**Room B** Pesticide Measurement by Multiple Detectors and GPC Cleanup  
**OI Analytical**

**2:45-3:30 Break—Cash Drawing and Door Prizes (Exhibit Hall)**  
**VISIT EXHIBITORS AND POSTERS**

**3:30-4:15 Room A** The Application of Ultra Fast Mass Spectrometry to Challenging Applications in Food Safety and Environmental Analysis  
**Shimadzu**

**Room B** Accelerated Solvent Extraction: Overview and Uses for Environmental and Food Safety Testing  
**Thermo Fisher Scientific-Dionex**

**4:15-5:00 Room A** Lower Cost Per Sample GC Analysis; Alternate Carrier Gases for GC and GC/MS; Large Volume Split Injection; Fast GC with Split Injection  
**Restek Corporation**

**Room B** Analysis of Food Contamination and Flavor Components Using a New High Resolution Accurate Mass GC/Q-TOF  
**Agilent Technologies**

**5:00 – 8:00 PM Evening Reception Savannah's Restaurant**

## Tuesday, April 23

### Microbiology Presentations

**Morning Session**—Piedmont Room A  
Breaks and Exhibits in the Peachtree Ballroom

**Moderator:** Val Suktankar

- 8:30-9:00**      ***Applications of Optical Mapping Technology for Next Generation Sequencing Data Quality Control, Molecular Epidemiology, Comparative Genomics and Whole-Genome Sequence Assembly of Microorganisms***  
Dr. Vladimir Loparev, Center for Disease Control
- 9:05-9:35**      ***Evaluation of a Pilot-Scale Facility for Biocrude Production by Activated Sludge Cultures Via Lignocelullose Sugar Fermentation and Downstream Recovery Processes***  
Dr. William Holmes, Mississippi State University, Dave C. Swalm School of Chemical Engineering
- 9:40-10:10**     ***Characterization of Lipid Accumulation by Rhodococcus Grown on Various Phenol to Nitrogen Ratios***  
S.A. Shields-Menard, Mississippi State University, Department of Biological Sciences
- 10:10-11:00**    **Break—Cash Drawing and Door Prizes (Exhibit Hall)  
VISIT EXHIBITORS AND POSTERS**
- 11:00-11:30**    ***Genetic Characterization of Environmental Swabs Collected from the Compounding Center Known to Cause 2012 Fungal Meningitis Outbreak: The First Report***  
Dr. Irshad Sulaiman, Food and Drug Administration
- 11:35-11:45**    ***A Comparison Study of two Secondary Enrichments for the Detection and Recovery of Cronobacter spp. From Infant Cereal***  
Nancy Miranda, Food and Drug Administration  
Yi Chen, Kathy Noe, Emily Jacobs, Keith Lampel, Steven Simpson, Khalil Kerdahi, and Irshad M. Sulaiman
- 11:50-12:00**    ***Single Lab Validation on DNA Fish Barcoding and its Application in Seafood Identification***  
Emily Jacobs, Food and Drug Administration  
Nancy Miranda, Steven Simpson, Khalil Kerdahi, and Irshad M. Sulaiman
- 12:00-1:15**     **LUNCH BREAK ---Cash Drawing and Door Prizes (Foyer)**  
**Southern Section Luncheon** Savannah's Restaurant



## Tuesday, April 23

### Microbiology Presentations

**Afternoon Session**—Piedmont Room A  
Breaks and Exhibits in the Peachtree Ballroom

**Moderator:** Rossana Kelton

- 1:30-2:00**      ***Federal and State Coordination in Response to Food Outbreak Events: Overview of the Multistate Outbreak of Salmonella Associated with Raw Ground Tuna***  
Terri McConnell, Food and Drug Administration
- 2:05 -2:35**      ***Parasite Recovery and Inactivation from Produce***  
Dr. Ynes Ortega, Professor at University of Georgia
- 2:35-2:55**      **Break—Cash Drawing and Door Prizes (Exhibit Hall)**  
**VISIT EXHIBITORS AND POSTERS**
- 2:55-3:25**      ***Georgia Ag on My Mind: Virtual Tours Lab***  
Jenny L. Eidson, Georgia Department of Agriculture
- 3:25-3:50**      ***Identification of Several Adult and Larval Flies (Calliphoridae, Muscidae, Fanniidae, and Sarcophagidae) from FDA “Dirty 22 Species” List***  
Mickey Anderson, Irshad M. Sulaiman and Cheryl Love-Harris  
Food and Drug Administration
- 3:50-4:20**      ***Multi-lab Validation of a Hepatitis A virus Extraction and Detection Protocol***  
Dr. Jacqueline W. Woods, CFSAN/OFS/DSST/MHSB
- 4:20-4:30**      **SS AOAC Annual Meeting Concludes, Closing Remarks, Grand Prize Drawing**

## Tuesday, April 23

### Chemistry Presentations

**Morning Session**—Piedmont Room B  
Breaks and Exhibits in the Peachtree Ballroom

**Moderator:** Ronald Willett

- 8:30-8:55**      ***Recent Projects in the Atlanta Center for Nutrient Analysis***  
Soo-Kwang Lee, Ph.D., DABT  
Southeast Regional Laboratory  
U.S. Food and Drug Administration
- 9:00-9:25**      ***Simultaneous Determination of Calcium, Magnesium, Copper, Zinc and Iron in Serum by ICP-AES***  
Denise Mitchell, Tennessee Department of Agriculture
- 9:30-9:55**      ***Ultra High Pressure Liquid Chromatography and High Resolution Mass Spectrometry Approaches to Comprehensive Pesticides Residue Screens***  
Mark Crosswhite, Ph.D. Florida Department of Agriculture and Consumer Services
- 9:55-10:30**      **Break—Cash Drawing and Door Prizes (Exhibit Hall)**  
**VISIT EXHIBITORS AND POSTERS**
- 10:30-10:55**      ***Measurement of Polybrominated Biphenyls in an Exposed Michigan Cohort***  
Elizabeth Marder, a PH.D candidate, Emory University
- 11:00-11:25**      ***Quantitation and Identification of Dicyandiamide in Milk and other Protein-Rich Foods***  
André Schreiber, AB SCIEX
- 11:30-12:00**      ***Concepts for Improving Throughput and Quality of Analyses***  
Bill Brewer, USC
- 12:00-1:15**      **LUNCH BREAK ---Cash Drawing and Door Prizes(Foyer)**  
**Southern Section Luncheon Savannah's Restaurant**

## Tuesday, April 23

### Chemistry Presentations

**Afternoon Session**—Piedmont Room B  
Breaks and Exhibits in the Peachtree Ballroom

**Moderator:** Joe Basile

- 1:30-2:00**      ***Method Development for the Isolation and Purification of Urinary PAH Tetrahydrotetrol Metabolites in Humans***  
Kendra Hubbard, Center for Disease Control
- 2:05-2:35**      ***Challenges in the GC/MS Analysis of Tetrahydrotetrol Metabolites of Polycyclic Aromatic Hydrocarbons in Urine***  
Debra A Trinidad, Center for Disease Control
- 2:35-3:15**      **Break—Cash Drawing and Door Prizes (Exhibit Hall)**  
**VISIT EXHIBITORS AND POSTERS**
- 3:15-3:45**      ***Use of Laser Induced Breakdown Spectroscopy(LIBS)for the Analysis of Poultry Products***  
Gary Gamble, United States Department of Agriculture
- 3:50-4:20**      ***Multiple Mycotoxin Analysis Using LC/MS/MS***  
Ronald Willett, North Carolina Department of Agriculture
- 4:20-4:30**      **SS AOAC Annual Meeting Concludes, Closing Remarks, Grand Prize Drawing**

## Southern Section of AOAC Poster Presentations

Poster Area is open Monday from 9:00 AM to 4:00 PM  
and Tuesday from 9:00 AM to 3:15 PM (Peachtree Ballroom)  
April 22-23, 2013

### ***Determination of Hormone Levels in *Anaxyrus boreas boreas* using LC-MS/MS***

Ashley Meredith<sup>1</sup>, Nat Calatayud<sup>2</sup>, Scott Willard<sup>2</sup>, Andy Kouba<sup>3</sup>, and Darrell Sparks<sup>1,2</sup>,  
<sup>1</sup>Mississippi State Chemical Laboratory, <sup>2</sup>Mississippi State University, <sup>3</sup>Memphis  
Zoological Society

### ***Multi-Allergen Screening in Food by LC-MS/MS***

André Schreiber, ABSCIEX

### ***LC-MS/MS-Based Metabolomics for Authenticity Assessment of Fruit Juices***

André Schreiber, ABSCIEX

### ***Method Development for the Extraction, Derivatization, and Gas Chromatographic Analysis of 3-Phenoxybenzyl Alcohol***

Molly Lockhart and Samantha Adkins Radford, Berry College

### ***The Removal of Carbohydrates by Solid Phase Extraction facilitates the Analysis of Pesticides in Fruit Juices by Direct Analysis in Real Time Mass Spectrometry (DART-MS)***

Frank Kero<sup>1</sup>, Victor Vandell<sup>1</sup>, Elena Gairloch<sup>1</sup>, Susan McNeill Spuhler<sup>1</sup>, Lee Williams<sup>1</sup>,  
Elizabeth Crawford<sup>2</sup>, Joseph LaPointe<sup>2</sup>, and Brian Musselman<sup>2</sup>, <sup>1</sup>Biotage, <sup>2</sup>IonSense,  
Inc.

### ***Comprehensive ESI-QTOF Workflow for Multi-Target Screening of Pesticides: Comparison of broad band & data-dependent MS/MS Techniques***

Michael D. Timmons<sup>1</sup>; Petra Decker<sup>2</sup>, Ellen Scherbaum<sup>3</sup>; Rebekka Loetterle<sup>3</sup>; Karin  
Wendt<sup>2</sup>; Oliver Raether<sup>2</sup>; and Ilmari Krebs<sup>2</sup>, <sup>1</sup>Bruker Daltonics Inc., Billerica, MA; <sup>2</sup>Bruker  
Daltonik GmbH, Bremen, GERMANY; <sup>3</sup>Chemisches und Veterinäruntersuchungsamt  
Stuttgart, Stuttgart, GERMANY

### ***Novel Comparison of Methods for Species Differentiation***

Emily Ousterhout<sup>1</sup>, Karl Bell<sup>1</sup>, Lenore Kelly<sup>2</sup>, Ashli Brown<sup>1,3</sup>, and Darrell Sparks<sup>1,3</sup>,  
<sup>1</sup>Mississippi State University, <sup>2</sup>Agilent Technologies, <sup>3</sup>Mississippi State Chemical  
Laboratory

### ***Analysis of Phenolic Compounds by Supercritical Fluid Chromatography***

Ronald A. Holser, USDA-ARS

### ***Single Corn Kernel Aflatoxin Detection***

Cedric Reid<sup>1</sup>, Erik Mylroie<sup>2</sup>, W. Paul Williams<sup>2</sup>, Ashli Brown<sup>1,3</sup>, and Darrell Sparks<sup>1,3</sup>,  
<sup>1</sup>Mississippi State University, <sup>2</sup>USDA-ARS, <sup>3</sup>Mississippi State Chemical Laboratory

**Southern Section of AOAC**  
**April 22-23, 2013**  
**Poster Presentations Continued**

***Sources and Perspectives of Arsenic in the Environment***

Kaylin Chaney and Kevin L. Armbrust, <sup>1</sup>Mississippi State University, <sup>2</sup>Mississippi State Chemical Laboratory

***Novel Porous Carbon Sorbent Materials for Use in Sample Preparation***

Dwight Stoll<sup>1</sup>, David Harmes<sup>1</sup>, Jon Thompson<sup>2</sup>, Doug Fryer<sup>2</sup>, Conor Smith<sup>2</sup>, and Bill Barber<sup>3</sup>. <sup>1</sup>Gustavus Adolphus College, <sup>2</sup>United Science, <sup>3</sup>Agilent Technologies

***Comparison of Extraction Techniques for LC-MS Determination of Acidic Herbicides in Vegetation***

Jack Atkins, Cindy Foster, Ashley Meredith, and Ashli Brown, Mississippi State Chemical Laboratory

***Screening Biosurfactant Potential of Activated Sludge and Mixtures through Glycolipid Biomarkers***

Patrisha J. Pham-Bugayong, Rafael Hernandez, Yen Nguyen, Todd French, William Holmes, and Magan Green, Mississippi State University

***Developing NALDI-TOF MS for Aflatoxin Screening of Corn***

Emily Davis<sup>1</sup>, Curtis Atkinson<sup>1</sup>, Ashli Brown<sup>1,2</sup>, and Darrell Sparks<sup>1,2</sup>, <sup>1</sup>Mississippi State University, <sup>2</sup>Mississippi State Chemical Laboratory

***Prep-Free Differentiation of Agriculturally Important Fungi by FT-IR Spectroscopy***

Curtis Atkinson<sup>1</sup>, Ashli Brown<sup>1,2</sup>, Darrell Sparks<sup>1,2</sup>, and Gale Hagood<sup>2</sup>. <sup>1</sup>Mississippi State University, <sup>2</sup>Mississippi State Chemical Laboratory

***Analysis of Fatty Acid Methyl Esters Using Bruker Scion™ Triple Quadrupole GC-MS System***

Vivian Xianyu Chen<sup>1</sup>, Edwin Motari<sup>2</sup>, Catherine Costello<sup>2</sup>, and Peter Harrsch<sup>1</sup>. <sup>1</sup>Bruker Chemical and Applied Markets, <sup>2</sup>Boston University School of Medicine

***DPX Tips for Rapid Cleanup for Simultaneous Analysis of Melamine and Cyanuric Acid using GC/MS/MS and LC/MS/MS***

William E. Brewer<sup>1</sup>, Pakritsadang Kaewsuya<sup>1</sup>, Michael D. Walla<sup>1</sup>, Stephen L. Morgan<sup>1</sup>, Alexander J. Krynitsky<sup>2</sup>, and John A. G. Roach<sup>2</sup>. <sup>1</sup>University of South Carolina, <sup>2</sup>U.S. Food and Drug Administration

***Automated On-line Column-switching High Performance Liquid Chromatography Isotope Dilution Tandem Mass Spectrometry Method for the Quantification of Bisphenol A, Bisphenol F, Bisphenol S, and 14 Other Environmental Chemicals in Urine***

Xiaoliu Zhou, Joshua Kramer, Antonia M. Calafat, and Xiaoyun Ye, Division of Laboratory Sciences, National Center for Environmental Health, Centers for Disease Control and Prevention

## **Anant Jain Founder's Award**

### **The 2013 Recipient is Joe Rainey**

The Anant Jain Founder's Award was established in 1999 to honor a distinguished member of the Southern (formerly Southeast) Section of the AOAC International who continues to make contributions to our Section through their leadership. The recipient must have held a leadership role as a Section officer and must have had an active role in the Section.

Past recipients:

<b>1999 Anant Jain</b>	<b>2006 Mike Farrow</b>
<b>2000 Wick Johnson</b>	<b>2007 Lurlene Dixon</b>
<b>2001 Sher Ali</b>	<b>2008 Jim McGuire</b>
<b>2002 Virlyn Burse</b>	<b>2009 Sherry Garris</b>
<b>2003 Doug Hite</b>	<b>2010 Reuben Beverly</b>
<b>2004 Jim Scott</b>	<b>2011 Anne Reid</b>
<b>2005 Larry Lagman</b>	<b>2012 Dana Barr</b>

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## **Doug Hite Honorarium**

### **The recipient for 2013 is Doug Hite**

The Doug Hite Honorarium was established in 2006 by the Co-Presidents Sherry Garris and Jim McGuire to recognize the leadership and hard work that Doug has given to the Section and to AOAC International.

The recipient will be determined by the Section Awards Committee and must have held a leadership role in the Section, must have had an active role in the Section for a minimum of 10 years, and be a member of the AOAC International Board of Directors, Official Methods Board or active in Committee work.

Past recipients:

<b>2006 Doug Hite</b>
<b>2007 Anant Jain</b>
<b>2008 Jo Marie Cook</b>
<b>2009 Gayle Lancette</b>
<b>2010 Wayne Ziemer</b>
<b>2011 Doug Hite</b>
<b>2012 Jo Marie Cook</b>

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## **Fellows of AOAC INTERNATIONAL from the Southern Section**

<b>1990 Ken Boyer</b>	<b>2000 Argentina Vindiola</b>
<b>1992 Gayle Lancette</b>	<b>2001 Doug Hite</b>
<b>1997 George Latimer</b>	<b>2006 Wayne Ziemer</b>
<b>1997 Anant Jain</b>	<b>2011 Jo Marie Cook</b>

## AOAC Southern Section Officers 2012-2013

### **Amy Brown** (President)

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### **William Holmes** (President-Elect)

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### **Doug Hite** (Treasurer)

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## Past Presidents

<b>1986</b> Anant Jain	<b>2000</b> Reba Ingram
<b>1987</b> Frank Allen	<b>2001</b> Lurlene Dixon
<b>1988</b> Martha Hudak-Roos	<b>2002</b> Michael Curry
<b>1989</b> Sher Ali	<b>2003</b> Jo Marie Cook
<b>1990</b> Gail Parker	<b>2004</b> Evelyn Bonnin
<b>1991</b> Jim Hess	<b>2005</b> Wayne Ziemer
<b>1992</b> Virlyn Burse	<b>2006</b> J.McGuire & S.Garris
<b>1993</b> Doug Hite	<b>2007</b> Reuben Beverly
<b>1994</b> Bill Brooks	<b>2008</b> Anne Reid
<b>1995</b> Jim Scott	<b>2009</b> Dana Barr
<b>1996</b> Larry Lagman	<b>2010</b> Joe Rainey
<b>1997</b> Bert Lynn	<b>2011</b> Jay Hardee
<b>1998</b> Mike Farrow	
<b>1999</b> Pat Beckett	

## AOAC Southern Section Executive Committee Members 2012-2013

### MEMBERS AT LARGE

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# Lobby Level

