



**Southern Section  
of  
AOAC  
INTERNATIONAL**

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

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**Doubletree Hotel  
Buckhead**

**Atlanta  
Georgia**

**Monday-Tuesday  
April 30-May 1  
2012**

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

## SUMMARY OF EVENTS

### Sunday, April 29

- 8:30 – 4:30 PM**      **Selected Topics from ISO/IEC 17025 Training** Lenox Room  
James H. Scott, Scott Consulting Services
- 5:00 PM**              **Executive Committee Meeting** Lenox Room
- 6:00 PM**              **Exhibit & Poster Setup** Peachtree Ballroom

### Monday, April 30

- 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 Workshops** Piedmont Rooms A and 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, May 1

- Exhibits & Posters 9:00 AM -3:00 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 – 4:15 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 30, 2012

Dear Colleagues,

Welcome again to Atlanta for the 26th Annual Meeting of the Southern Section of AOAC INTERNATIONAL. President-Elect Amy Brown has organized an exciting and informative meeting. The topics in this year’s conference should collectively prove to be an excellent technical program. The many hours of diligent work put in by our Executive Committee and Officers to accomplish the many tasks that run in the background of this conference is greatly appreciated. Their dedication to this meeting enables an alliance of contributions from scientists of federal, state, university, and commercial laboratories across the South. Two such individuals worthy of mention are this year’s Anant Jain Founder’s Award recipient Dana Barr and the Doug Hite Honorarium recipient Jo Marie Cook. Both have spent many hours contributing to the Section.

We are grateful to the many presenters of the Workshops, Talks, and Posters. It is hoped you will learn about new analytical technologies from these individuals that will empower you to move forward in your pursuit whether it be Food Safety, Analytical, Agricultural, or other scientific disciplines. Take the opportunity to meet with the speakers and develop relationships from the quaint environment that the meeting fosters. This conference hopes to provide the conduit to unify colleagues from laboratories all over the South towards new and more modern scientific techniques.

Please be sure and speak with our exhibitors as their contributions to the Section are predominantly responsible for making this event possible. Many exhibitors are also presenting Workshops and are financially sponsoring many of the events such as breaks, the Evening Reception, and the Tuesday Luncheon. Please let them know how much you appreciate their support and participation.

I hope you enjoy the meeting and, of course, if you have any suggestions, please present them to me or any member of the Executive Committee. We value your feedback. As we are a strictly volunteer organization, we constantly need talented individuals for our recruiting, website, planning and executive committees and would welcome your time and talents.

Finally, be sure and enjoy the warm spring weather in and around the Buckhead District of Atlanta, the Crossroads of the South. Members repeatedly ask that we continue to hold the meeting in Buckhead since it is convenient and offers many amenities.

Best regards,

Jay Hardee, President  
Southern Section of AOAC INTERNATIONAL

## **VENDORS 2012**

*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)*

**ABSCIEX**

**AGILENT TECHNOLOGIES**

**BIOGX**

**BIOTAGE**

**BRUKER DALTONICS**

**BUCHI CORPORATION**

**DPX LABS, LLC**

**ELEMENTAR AMERICAS**

**EMD MILLIPORE**

**FOSS NORTH AMERICA**

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**OMNI INTERNATIONAL**

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**PERKINELMER**

**QUANTUM ANALYTICS**

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**ROKA BIOSCIENCE**

**SORBENT TECHNOLOGIES, INC**

**SPEX SAMPLE PREP**

**THERMO SCIENTIFIC**

**UCT**

**WATERS CORPORATION**

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## RECEPTION



## BREAK



## ATTENDEE BAGS

## NAME BADGE LANYARDS



## LUNCHEON WORKSHOPS



## WORKSHOPS

- ABSCIEX
- AGILENT TECHNOLOGIES
- BIOGX
- BIOTAGE
- BRUKER DALTONICS
- LECO CORPORATION
- RESTEK CORPORATION
- ROKA BIOSCIENCE
- UCT
- WATERS CORPORATION

## Monday, April 30 General Session

### Morning Session—Piedmont Room

- 8:30-8:40** Welcome—President  
**Jay Hardee, Waters Corporation**
- 8:40-8:45** Call to Order—President-Elect  
**Amy Brown, Florida Department of Agriculture & Consumer Services**
- 8:45-8:55** Presentation of the Anant Jain Founder's Award  
**Amy Brown, Florida Department of Agriculture & Consumer Services**
- Presentation of the Doug Hite Honorarium  
**Jay Hardee, Waters Corporation**
- 8:55-9:35** AOAC International Update  
**Darryl Sullivan, Secretary, AOAC INTERNATIONAL**
- 9:35-10:15** Keynote Speaker  
**Dr. Ortega, Associate Professor, University of Georgia's Center for Food Safety and Science Advisor to U.S. Food and Drug Administration, Southeast Regional Laboratory**  
"Past, Present, and Future Detection Technologies of Food-borne Pathogens and Academia's Contribution Towards Their Development "
- 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** A Compound Based Approach to Simplify Method Development and Data Processing for Multi-Residue Analysis by GC-MS/MS  
Kefei Wang, Bruker Daltonics
- Room B** Extraction of Liposoluble Vitamins from Complex Matrices Using Supported Liquid Extraction (SLE) with LC-MS/MS Analysis  
Dr. Victor Vandell, Biotage
- 11:45-12:00** **Cash Drawing and Door Prizes (Foyer)**

**Monday, April 30, Luncheon Session--Workshops**  
**New this year, includes lunch, please sign up at the registration desk**  
**Monday Morning, limited to the first 50 attendees per workshop**

- 12:00-1:00 Room A** Improved Detection and Identification of Molecules to Species Using Mass Spectrometry  
Shannon Cornett, Bruker Daltonics
- Room B** A Growing Food Safety Trend: Targeted Analysis and Non-Targeted Screening Using High-Resolution Accurate Mass (HR/AM) LC-MS/MS  
James Chang, Thermo Scientific

**Monday, April 30, Afternoon Session--Workshops**

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

- 1:15-2:00 Room A** Rapid Simultaneous Carbon, Nitrogen and Sulfur Determination in Plant Tissue and Soils Matrix Using a High-Temperature Combustion Technique  
Mason Marsh, LECO Corporation
- Room B** The Chemistry Behind Solid-Phase Extraction  
Don Shelly, UCT
- 2:00-2:45 Room A** Global Food Safety Regulation - Impact on Food Trade and Analytical Chemistry  
Alike  
Dr. Paul B. Young, Waters Corporation
- Room B** An Innovative Approach to Pathogen Detection: Making Molecular Elementary  
Ted Andrew, Roka Bioscience
- 2:45-3:30** **Break—Cash Drawing and Door Prizes (Exhibit Hall)**  
**VISIT EXHIBITORS AND POSTERS**
- 3:30-4:15 Room A** Emerging Issues in Global Food Safety, from Allergen Detection to Unknown Screening by Liquid Chromatography Tandem Mass Spectrometry,  
W. Bradley Barrett, AB SCIEX
- Room B** Automation of the USDA MLG 5B Non-O157 STEC Testing Method Using a Low Cost, High Throughput Nucleic Acid Extraction-IMS platform and Lyophilized Sample-Ready™ Primers and Probes.  
Dr. Michael Vickery, BioGX
- 4:15-5:00 Room A** The Promise of Dilute-and-Shoot LC/MS/MS: Feasibility of Dilute-and-Shoot Injections for Pesticide Residue Analysis in Different Food Types Using Experimentally Determined Matrix Effects  
Julie Kowalski, Sharon Lupo and Jack Cochran, Restek Corporation
- Room B** MultiMaTCH Genotyping Using MassCode Tags to Develop a Multiplex Assay  
Dr. Lenore Kelly, Agilent Technologies
- 5:00 – 8:00 PM** **Evening Reception Savannah's Restaurant**

## Tuesday, May 1

### Microbiology Presentations

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

**Moderator:** Val Suktankar

- 8:30-9:00**      ***Horizontal Gene Transfer by Vibrio cholerae in the Environment is Coordinated by A NUCLEOTIDE SCAVENGING SYSTEM***  
Dr. Brian Hammer, GA Tech
- 9:05-9:35**      ***Rapid Identification of Bacteria and Yeast in Positive Blood Culture Broths by MALDI-TOF Mass Spectrometry***  
Dr. YiWei Tang, Vanderbilt University
- 9:40-10:10**     ***Application of DNA Bar-coding Based on Mitochondrial Cytochrome C Oxidase Subunit I Gene Sequence Characterization for the Identification of Fish Samples and Regulatory Compliance***  
Dr. Irshad M. Sulaiman, U. S. Food and Drug Administration
- 10:10-10:55**    **Break—Cash Drawing and Door Prizes (Exhibit Hall)**  
**VISIT EXHIBITORS AND POSTERS**
- 11:00-11:30**    ***Control Schemes for Microfluidic Viral DNA/RNA Amplification***  
Dr. Craig Forest, GA Tech
- 11:35-12:00**    ***Addressing Rapid Biosensing for Food Systems – Challenges for Sample Preparation and Concentration***  
John Pierson, PE, GA Tech
- 12:00-1:15**     **LUNCH BREAK ---Cash Drawing and Door Prizes(Foyer)**  
**Southern Section Luncheon Savannah's Restaurant**



## Tuesday, May 1

### Microbiology Presentations

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

**Moderator:** Dr. Ian M. P. Joseph

- 1:30-2:00**      ***The Shigella Recovery Problem: a theoretical approach towards elucidating an effective recovery method***  
Dr. Ian M. P. Joseph, U. S. Food and Drug Administration
- 2:05 -2:35**      ***Spike Recoveries of German Cockroach, *Blattella germanica*, Fragments from Various Food Products with Several Approved AOAC Methods and Development of Methods to Identify These Fragments by Polymerase Chain Reaction (PCR)***  
L. Mickey Anderson, MS, U. S. Food and Drug Administration
- 2:35-2:50**      **Break—Cash Drawing and Door Prizes (Exhibit Hall)**  
**VISIT EXHIBITORS AND POSTERS**
- 2:55-3:25**      ***Fate of *Escherichia coli* 0157:H7 on Field Grown Leafy Greens***  
Dr. Cathy C. Webb, University of Georgia Center for Food Safety
- 3:30-4:00**      ***A Comparison of Human Noroviruses Recovery Using Magnetic Beads Coated with Porcine Gastric Mucins, Saliva or Monoclonal Antibodies***  
Dr. Jennifer Cannon, University of Georgia Center for Food Safety
- 4:00-4:15**      **SSAOAC Annual Meeting concludes, Closing Remarks, Grand Prize Drawings**

## Tuesday, May 1

### Chemistry Presentations

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

**Moderator:** Sherry Garris

- 8:30-8:55**     ***Assessing in Utero and Early Childhood Exposures to Environmental Toxicants***  
Dr. Dana Boyd Barr, Professor Chemistry, Emory University
- 9:00-9:25**     ***The Analysis of Paraquat and Diquat by HILIC-MS in Vegetation and Fruit***  
Molly Cumming, Tennessee Department of Agriculture
- 9:30-9:55**     ***Comparison of Analytical Technologies (Methods) for the Determination of Monensin in Feed***  
Dr. Amitaba Chakrabarti, and Dr. Chris Lam, Tennessee Department of Agriculture
- 10:00-10:30**   **Break—Cash Drawing and Door Prizes (Exhibit Hall)**  
**VISIT EXHIBITORS AND POSTERS**
- 10:30-10:55**   ***Method for Determination of Current Use and Persistent Pesticides in Organic Whole Milk/Human Breast Milk Using Gas Chromatography Mass Spectrometry***  
Xianyu Chen, Emory University
- 11:00-11:25**   ***Insecticide Degradation in Food and Beverages: Implications for Risk Assessment***  
Samantha Radford, Emory University
- 11:30 -11:55**   ***Automated QuEChERS Tips for GC/MS Analysis of Fruit and Vegetables***  
Bill Brewer, University of South Carolina

## Tuesday, May 1

### Chemistry Presentations

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

**Moderator:** Joe Basile

- 1:30-1:55**      *The Modified QuEChERS Extraction Method for Chloramphenicol Analysis in Honey By LC/MS/MS*  
Xiujinh Lu Baggett, U. S. Food and Drug Administration
- 2:00-2:25**      *Programs and Capabilities of the Atlanta Center for Nutrient Analysis at the Southeast Regional Laboratory*  
Mike Farrow, U. S. Food and Drug Administration
- 2:30-3:00**      **Break—Cash Drawing and Door Prizes (Exhibit Hall)**  
**VISIT EXHIBITORS AND POSTERS**
- 3:00-3:25**      *Testing for PAH in Gulf Coast Seafood a Collaboration between Mississippi State Lab and the FDA Labs*  
Gale Hagood, Mississippi State University
- 3:30-4:00**      *Modified QuEChERS Procedure for the Analysis of Bisphenol A in Canned Food Products*  
Don Shelly, UCT
- 4:00-4:15**      **SSAOAC Annual Meeting concludes, Closing Remarks, Grand Prize Drawings**

## **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 3:00 PM (Peachtree Ballroom)*

**Poster Space (48"X 72")**

### ***Analysis of 136 Pesticides in Avocado Using a Modified QuEChERS Method with LC-MS/MS and GC-MS/MS***

Narong Chamkasem, Lisa W. Ollis, and Tiffany Harmon, SRL

### ***"For the Love of Bees" a Triple Take A QuEChERS Approach Utilizing Both GC and HPLC Triple Quadrupole Technologies***

Jonathan Pelt and Amy Brown, Florida Department of Agriculture and Consumer Services

### ***Florida's Bureau of Chemical Residue Annual Report – Fiscal Year 2010 – 2011***

Jo Marie Cook, Florida Department of Agriculture and Consumer Services

### ***Penetration of N-Nitrosornicotine (NNN) Across Porcine Esophageal Tissue in the Presence of Ethanol, Menthol, Ethanol-Menthol, and Acetaldehyde Ex Vivo by HPLC/MS/MS***

Pakritsadang Kaewsuya, Jie Gao, William E. Brewer, James Chapman, Kevin Carnevale, and Stephen L. Morgan, University of South Carolina

### ***Improved MeOH Solvent Based FT-IR Spectroscopy Identification of Filamentous Fungi***

Curtis Atkinson, Olga Pechanova, Darrell L. Sparks, Ashli Brown, and Jose Rodriguez, Mississippi State University

### ***Comparison of Extraction Solvent Efficiency for Aflatoxins in Corn and DDGs***

Andrew McDaniel, Karl Bell, Cedric Reid, Patrick Hide, Ashli Brown, and Darrell L. Sparks, Mississippi State Chemical Laboratory

### ***Extraction of Aflatoxins from Corn, DDGs, and Milk Using QuEChERS***

Lee Ware, Andrew McDaniel, Karl Bell, Ashli Brown, and Darrell L. Sparks  
Mississippi State Chemical Laboratory

### ***Testing for PAH in Gulf Coast Seafood: a Collaboration Between Mississippi State Chemical Laboratory and the FDA Labs***

Ashley Meredith and Gale Hagood, Mississippi State Chemical Laboratory

### ***Pros and Cons of PAH Analysis on GC/MS/MS vs. LC/FLD***

Christina Childers, Jack Atkins, Andrew McDaniel, Ashley Meredith, Lee Ware, Cindy Foster, and Ashli Brown, Mississippi State Chemical Laboratory

**Southern Section of AOAC**  
**April 30-May 1, 2012**  
**Poster Presentations Continued**

***Quantitation and Identification of Phthalates in Food and Beverage Samples Using Highly Selective LC-MS/MS***

André Schreiber, Olivia Yang, Eric Wan, Long Gu, and Yves LeBlanc, AB SCIEX

***Automatic Screening and Identification of Pesticide Residues with High Confidence Using LC-MS/MS***

André Schreiber, Yun Yun Zou, and Lauryn Bailey, AB SCIEX

***Advanced Multi-Target Comparative Screening Using High Resolution and Accurate Mass LC-MS/MS***

André Schreiber and Axel Besa, AB SCIEX

***Comparison of Methods for Catfish Species Identification***

Karl Bell, Karen Persons, Ashley Meredith, Andrew McDaniel, Jose Rodriguez, Ashli Brown, and Darrell L. Sparks, Mississippi State University

***The QuEChERS Sample Preparation Approach with Dispersive and Cartridge SPE Cleanup, GCxGC-TOFMS, and LC-MS/MS for the Analysis of Pesticides in Tobacco***

Julie Kowalski, Michelle Misselwitz, Jason Thomas, Jack Cochran, Restek Corporation

***Quantitative Determination of Nitrofurans Metabolites in Imported Fish Using QQQ LC/MS***

Karl Bell, Cindy Foster, Ashley Meredith, Jose Rodriguez, Ashli Brown, and Darrell L. Sparks, Mississippi State University

***Monitoring Aflatoxin Contamination of Corn in Mississippi***

Cedric Reid, Erick Larson, Ian Johnston, Karl Bell, Andrew McDaniel, Darrell L. Sparks, and Ashli Brown, Mississippi State University

***Metagenomics for Bioprospecting***

Ian Johnston<sup>1</sup>, Candace Williams<sup>1</sup>, Andy Kouba<sup>2</sup>, Darrell L. Sparks<sup>1</sup>, and Ashli Brown<sup>1</sup>, <sup>1</sup>Mississippi State University, <sup>2</sup>Memphis Zoo

***Evaluation of Adsorbents for Removal of Aflatoxin M1 from Contaminated Milk***

Erika Womack, Stephanie Ward, Darrell L. Sparks, and Ashli Brown  
Mississippi State University

***Use of Agricultural Forensic Science as a Teaching Tool***

Darrell L. Sparks, Cedric Reid, Kay Brocato, and Ashli Brown  
Mississippi State University

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

### **The 2012 Recipient is Dr. Dana Barr**

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>	

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## **Doug Hite Honorarium**

### **The recipient for 2012 is Jo Marie Cook**

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>

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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 2011-2012

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## Past Presidents

**1986** Anant Jain  
**1987** Frank Allen  
**1988** Martha Hudak-Roos  
**1989** Sher Ali  
**1990** Gail Parker  
**1991** Jim Hess  
**1992** Virlyn Burse  
**1993** Doug Hite  
**1994** Bill Brooks  
**1995** Jim Scott  
**1996** Larry Lagman  
**1997** Bert Lynn

**1998** Mike Farrow  
**1999** Pat Beckett  
**2000** Reba Ingram  
**2001** Lurlene Dixon  
**2002** Michael Curry  
**2003** Jo Marie Cook  
**2004** Evelyn Bonnin  
**2005** Wayne Ziemer  
**2006** J.McGuire & S.Garris  
**2007** Reuben Beverly  
**2008** Anne Reid  
**2009** Dana Barr

## AOAC Southern Section Executive Committee Members 2011-2012

### MEMBERS AT LARGE

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**George Ware**

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# Lobby Level

