



30th Annual Meeting

Southern Section of

AOAC
INTERNATIONAL

Monday - Tuesday

April 12th - 14th

2016

Doubletree Hotel
Buckhead

Atlanta, Georgia

*“The Scientific Association
Dedicated to Analytical Excellence”*



SUMMARY OF EVENTS

Monday, April 11

5:00 PM	Executive Committee Meeting	Lenox Room
6:00 PM	Exhibit & Poster Setup	Peachtree Ballroom

Tuesday, April 12

Exhibits & Posters 9:00AM - 5:00PM in the Peachtree Ballroom

7:30 AM – 4:00 PM	Registration	Foyer
8:30 AM – 11:00 AM	General Session	Piedmont Room
11:00 AM – 11:45 AM	Workshops	Piedmont Room
12:00 PM – 1:00 PM	Luncheon Workshop	Piedmont Room
1:15 PM – 4:00 PM	Workshops	Piedmont Room
4:00 PM – 5:00 PM	Poster Session	Peachtree Ballroom
5:00 PM – 8:00 PM	Evening Reception	Greenleaf Restaurant

Wednesday, April 13

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

7:30 AM – 12:00 PM	Registration	Foyer
8:30 AM – 12:00 PM	Microbiology Session Chemistry Session	Piedmont Room A Piedmont Room B
12:00 PM – 1:00 PM	Luncheon Workshops	Piedmont Room A & B
1:30 PM – 4:30 PM	Microbiology Session Chemistry Session	Piedmont Room A Piedmont Room B

Thursday, April 14

9:00 AM – 4:00 PM	Short Course	Piedmont Room
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Southern Section of AOAC INTERNATIONAL
“The Scientific Association Dedicated to Analytical Excellence”

April 12, 2016

Dear Colleagues,

Welcome to the 30th Annual Meeting of the Southern Section of the AOAC International in beautiful Atlanta, GA! Naturally, I expect everyone to take a little time to discover the awesome food, shopping, and nightlife of Buckhead. We also want to catch up with old friends, and make some new ones that we can look forward to seeing again each year, at the Southern Section Reception at *Greenleaf*, the Doubletree Hotel’s outstanding restaurant. The Tuesday evening Reception features complimentary drinks, heavy appetizers, and live entertainment.

The Southern Section sponsors two awards. The first is the **Anant Jain Founder’s Award**, given annually to a member of the Southern Section who has demonstrated outstanding dedication and service to the section. This year’s well-deserving recipient is **Bill Holmes**, a past President and long-time member of the section who has gone above and beyond for the organization time and time again to ensure that the SSAOAC continues to represent the highest level of Analytical Excellence. The second is the **Doug Hite Honorarium Award**, awarded annually to a section member who has demonstrated outstanding service and participation at the AOAC International level, including involvement in key AOAC International projects. This year’s recipient is **Amy Brown**, another past President and long-time member of the Southern Section who has served for many years on the Section’s Executive Committee and setup the online meeting registration.

We also have Ron Johnson, Sr. Manager, Scientific Affairs at Biomerieux, and President-Elect of AOAC INTERNATIONAL, to give the annual AOAC International update. In addition, we are very fortunate to have Dr. Allan Marshall, Professor of Chemistry, biochemistry and Chief Scientist, Ion Cyclotron Resonance Center, at the Florida State University, to deliver our Keynote Address, entitled **“Reading Chemical “Fine Print”: The Key to Exploiting Nature’s Compositional Complexity”**.

President-Elect Mark Crosswhite and the rest of the Planning Committee have been working since last year’s Annual Meeting to put together a program that includes technical workshops on state-of-the-art instrumentation and techniques from our Vendor Partners, cutting-edge chemistry and microbiological presentations, and the Short Course by Larry Lagman who is the President of KQuality Management Solutions, an ISO/IEC 17025 consulting firm, and is a Lead Assessor, with Perry Johnson Laboratory Accreditation. Mr. Lagman is an ASQ Certified Quality Manager / Organizational Excellence and an ASQ Certified Quality Manager. The Short Course is entitled **“Excellence in Data Management: Utilizing Your Quality Management System to Maximize Laboratory Efficiency”**. Oh, and don’t forget about our awesome Vendor Partners, who really make it possible for us to have this meeting. They will be available in the Peachtree Ballroom to discuss your analytical needs, answer questions to help troubleshoot issues in your laboratories, and demonstrate their products that make our work possible. Thank you for attending the 30th Annual Meeting of the SSAOAC.

Sincerely,
Val Suktankar, President
Southern Section of AOAC International

2016 VENDOR PARTNERS

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

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“Thank You” to our 2016 Sponsors!

KEYNOTE SPEAKER



LUNCHEON WORKSHOPS



BREAKS



NAME BADGE LANYARDS



ATTENDEE BAGS



SHORT COURSE



Tuesday, April 12 General Session

Morning Session—Piedmont Room

- 8:30-8:35** Welcome—President
Val Suktankar, FDA Southeast Regional Lab
- 8:35-8:40** Call to Order—President-Elect
Mark Crosswhite, Florida Department of Agriculture
- 8:40-8:55** Presentation of the Anant Jain Founder's Award
Mark Crosswhite, Florida Department of Agriculture
- Presentation of Doug Hite Honorarium
Val Suktankar, FDA Southeast Regional Lab
- 8:50-9:35** AOAC International Update
**Ron Johnson, Sr. Manager, Scientific Affairs-Biomerieux
President-Elect AOAC INTERNATIONAL**
- 9:35-10:15** Keynote Speaker **Sponsored by Bruker**
**Dr. Alan Marshall, Professor of Chemistry, Biochemistry
and Chief Scientist of the Ion Cyclotron Resonance
Center, Florida State University**
"Reading Chemical "Fine Complexity Print": The Key to
Exploiting Nature's Compositional"
- 10:15-11:00** Break— Sponsored by Horizon
Cash Drawing and Door Prizes (Exhibit Hall)
VISIT EXHIBITORS AND POSTERS

Workshops

Piedmont Room

Moderator: Fadi Aldeek, Joe Basile and Jon Bell

- 11:00-11:45** **Transforming Sample Preparation in Food Analysis**
Reba Holley, Waters

Luncheon Session

*Limited to the first 75 attendees who sign up at the
registration desk, Tuesday morning. Lunch is provided.*

- 12:00-1:00** **GENE-UP®: A New Real-Time PCR Solution with
Extremely Simplified Workflow for Foodborne Pathogen
Detection**
Hari Dwivedi, PhD, bioMerieux, Inc.
- 12:00-1:00** Lunch on your own for all others

Tuesday, April 12

Workshops Piedmont Room

- 1:15-2:00** **Application of Advanced Mass Spectrometry Workflows for the Analysis of Trace Contaminants in Food**
Paul Winkler, Ph.D, SCIEX
- 2:00-2:45** **The Pesticide Explorer Collection: Screening and Quantitation Workflows for Food Pesticide Residue Laboratories Using Tandem and High Resolution Accurate Mass (HRAM) LC/MS Instrumentation**
Ed George, Thermo Fisher
- 2:45-3:15** **Break -Cash Drawing and Door Prizes (Exhibit Hall)**
VISIT EXHIBITORS AND POSTERS
- 3:15-4:00** **Identification of Contaminants in Dog Food by LC Time of Flight Mass Spectrometry with Fragment Ion Confirmation**
Sue D'Antonio, Agilent Technologies
- 4:00-5:00** **Poster Session (Authors Present)**
VISIT EXHIBITORS AND POSTERS
- 5:00-8:00** **Southern Section Reception**
Greenleaf Restaurant

The SSAOAC Executive Committee invites you to attend a reception in the Doubletree's *Greenleaf Restaurant* on Tuesday, April 12, 2016, in appreciation of your continued support of analytical sciences and the Southern Section of AOAC International, and especially for your attendance at our 2016 Annual Meeting. Please relax and enjoy complimentary drinks and heavy appetizers while catching up with colleagues and old friends from last year, and networking with fellow scientists, administrators, and Vendor Partners.

Wednesday, April 13 Microbiology Presentations

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

Moderator: Rory Burton

- 8:30-9:00** **A Global Challenge of Food Safety: Emerging Issues and Cutting-edge Technologies**
Irshad M. Sulaiman, Ph.D.
FDA Southeast Regional Laboratory
- 9:00-9:30** **Gazing into the ISO/IEC 17025 Crystal Ball, The Standard It is a Changing**
Larry Lagman
Perry Johnson Laboratory Accreditation (PJLA)
- 9:30-10:00** **Measuring Anthrax Toxins using Mass Spectrometry-Based Methods**
John Barr, Ph.D.
Centers for Disease Control and Prevention (CDC)
- 10:00-11:00** **Break**—Sponsored by NSI Lab Solutions
Cash Drawing and Door Prizes (Exhibit Hall)
VISIT EXHIBITORS AND POSTERS
- 11:00-11:30** **Evaluating the Extraction Efficiency of Food Borne Pathogens on Automated Homogenizer Platforms**
Shari Garrett
Omni International
- 11:30-12:00** **FDA's CORE (Coordinated Outbreak Response Network) 101**
Gail Wagley
FDA Southeast Regional Laboratory
- Luncheon Session**
*Luncheon Workshop includes lunch for 35 of attendees.
Sign up at the registration desk, Wednesday morning.*
- 12:00-1:00** **Simultaneous Quantitation and Identification of Hundreds of Pesticides and Veterinary Drug Residues in Food Extracts Using LC-QTOF Accurate Mass Spectrometry**
Carsten Baessmann, Bruker

Wednesday, April 13

Microbiology Presentations

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

Moderator: Kathy Noe

- 1:30-2:00** **Bacterial Identification by Mass Spectrometry**
Hercules Moura, Ph.D.

Centers for Disease Control and Prevention (CDC)
- 2:00 -2:30** **Advantages of Automating your Sample Preparation,
including SPE and SLE, with the New Biotage Extrahera**
Kristin Jones
Biotage
- 2:30-3:00** **Break—Cash Drawing and Door Prizes (Exhibit Hall)**
VISIT EXHIBITORS AND POSTERS
- 3:00-3:30** **Sampling for Environmental Public Health**
Dana Shell
Georgia Department of Agriculture
- 3:30-4:00** **Rapid Detection of MRSA by Bacteriophage Amplification
Coupled with Mass Spectrometry**
Jon Rees
Centers for Disease Control and Prevention (CDC)
- 4:00-4:30** **Culture Media and Supplies Management - A Low Tech
Approach to Meet ISO 17025 Requirements**
Dana Shell, Georgia Department of Agriculture
- 4:30-4:45** **Southern Section of AOAC Annual Meeting Concludes,
Closing Remarks, Grand Prize Drawing**

Wednesday, April 13 Chemistry Presentations

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

Moderator: Soo Kwang Lee

- 8:30-9:00** **Toxicity of Hexahydrosophomulone in an Vitro Canine Model as an Example of Analytical Challenges and Opportunities in the Pet Food Industry**
Denise Mitchell
Mars
- 9:00-9:30** **Analysis of Proteins by Mass Spectrometry-Based Method**
John Barr, Ph.D.
Centers for Disease Control and Prevention (CDC)
- 9:30-10:00** **Method Development for Evaluation of Pesticides Residue in Drinking Water Using Disposable Pipette Extraction (DPX) and Gas Chromatography–Mass spectrometry (GC-MS)**
Hongxia Guan, Ph.D.
School of Science and Technology, Georgia Gwinnett College
- 10:00-11:00** **Break—Cash Drawing and Door Prizes (Exhibit Hall)**
VISIT EXHIBITORS AND POSTERS
- 11:00-11:30** **Detection of Trace Levels of Toxins in Drinking Water on X500R QTOF**
Farzad Pakdel, Ph.D.
SCIEX
- 11:30-12:00** **Identification of Penicillin G Metabolites under Various Environmental Conditions using UHPLC-MS/MS**
Fadi Aldeek, Ph.D.
Florida Department of Agriculture and Consumer Services
- Luncheon Session**
*Luncheon Workshop includes lunch for 35 of attendees.
Sign up at the registration desk, Wednesday morning.*
- 12:00-1:00** **Be a GC Pro: Free and Easy Dry Lab Method Development and Method Improvement Tools**
Rebecca Stevens, Restek Corporation

Wednesday, April 13

Chemistry Presentations

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

Moderator: Denise Mitchell

- 1:30-2:00** **Protect Public Health Through Improving Test Methodology and Modernizing the FSIS ALP Program**
Oliver Ou, Ph.D.
Food Safety and Inspection Service Laboratory Quality Assurance Staff (USDA)
- 2:00-2:30** **Comparison of Dumas and Kjeldahl Methods in Diverse Standard Reference Materials for the Accurate Determination of Protein Content**
Eric Clevenger, Ph.D.
FDA Southeast Regional Laboratory
- 2:30-3:00** **Break—Cash Drawing and Door Prizes (Exhibit Hall)**
VISIT EXHIBITORS AND POSTERS
- 3:00-3:30** **Update to the Changes in Chemical Residue Testing in the USDA/FSIS/OPHS Testing Program and Methods**
Chilton Ng
Food Safety and Inspection Service Laboratory Quality Assurance Staff (USDA)
- 3:30-4:00** **Method Development/Validation of the Direct Determination of Gyphosate, Glyphosinate, and AMPA in Food by LC/MS**
Lisa Waters
FDA Southeast Regional Laboratory
- 4:00-4:30** **Profiling of Medium-to-Long Chain Acyl-CoAs Converted from Dietary Fatty Acids in Mammalian Cells using LC-MS/MS**
Xiangkun Yang
Department of Pharmaceutical and Biomedical Sciences University of Georgia
- 4:30-4:45** **SS AOAC Annual Meeting Concludes, Closing Remarks, Grand Prize Drawing in Foyer**

Tuesday and Wednesday, April 12-14 Poster Presentations

*Poster Area is open Tuesday from 9:00 AM to 5:00 PM
and Wednesday from 9:00 AM to 3:15 PM (Peachtree Ballroom)*

Rapid Quantitation of Biotin in Infant Formula, Medical Foods, and Dietary Supplements by Isotope Dilution LC-MS/MS

Aubrey Smith Shahriari, Sookwang Lee, Amy Irwin, Anjum Waqar, Edwin Phifer & Khalil Kerdahi

Atlanta Center for Nutrient Analysis, FDA Southeast Regional Laboratory

A Validated LC-UV Method for the Analysis of Synthetic Thiamine Analogs, Benfotiamine and Sulbutiamine, in Biological Samples

Jaeah Kim

Department of Pharmaceutical and Biomedical Sciences University of Georgia

How Repeatable is your Laboratory's Sample Processing? An Estimation of Measurement Uncertainty Including Laboratory Sample Processing

Amy Brown

Florida Department of Agriculture and Consumer Services

Identification of Cronobacter Species Recovered from Food and Environmental Samples by DNA Sequencing of 16S rRNA, rpoB and O-antigen genes

Nancy Miranda, Steven Simpson, Khalil Kerdahi, and Irshad M. Sulaiman
FDA Southeast Regional Laboratory

Multilocus Sequence Typing of Gram-Positive Bacteria Isolated from Canned Black Bean Corn Poblano Salsa

Irshad M. Sulaiman, Emily Jacobs, Steven Simpson, and Khalil Kerdahi
FDA Southeast Regional Laboratory

Finding and Identifying Unsuspected Contaminates In Food

Mark Crosswhite, Ph.D.

Florida Department of Agriculture and Consumer Services

Tuesday and Wednesday, April 12-14

Poster Presentations

*Poster Area is open Tuesday from 9:00 AM to 5:00 PM
and Wednesday from 9:00 AM to 3:15 PM (Peachtree Ballroom)*

Direct Determination of Glyphosate, Glufosinate, and AMPA in Honey by Liquid Chromatography/tandem Mass Spectrometer

Narong Chamkasem , Cynthia Morris , and Tiffany Harmon
FDA Southeast Regional Laboratory

Antigenic Characterization of Toxigenic and Non-Toxigenic Strains of Clostridium difficile

Ramnath Gowrishankar
CDC

Shoot-and-Dilute Gas Chromatography-Mass Spectrometry: Polycyclic Aromatic Hydrocarbons Quantification in Tea using Modified QuEChERS Extraction and No Sample Cleanup

Julie Kowalski, Amanda Rigdon, Jack Cochran
Restek Corporation

LC-MS/MS Method for the Determination and Quantitation of Penicillin G and its metabolites in Citrus Fruits Affected by Huanglongbing

Fadi Aldeek, Ph.D.
Florida Department of Agriculture and Consumer Services

LC-MS/MS Detection of Peanut and Almond Allergens in Spices

Lee Sun New¹, Hua-Fen Liu², André Schreiber³ and Farzad Pakdel²
SCIEX Singapore

LC-MS/MS Detection of Pesticide 1080 (Sodium Fluoroacetate) in Milk and Infant Formula

Farzad Pakdel and André Schreiber
SCIEX

**Thursday, April 14
9:00 AM – 4:00 PM**

**Southern Section Short Course
Piedmont Room
Sponsored by Perry Johnson Laboratory Accreditation**

Need annual training to comply with ISO 17025 requirements? Want to learn more about good analytical practices? Then the Southern Section of AOAC International has the solution for you. After the 2016 Annual Meeting the SSAOAC is offering a short course designed to provide required ISO 17025 training for chemical and micro laboratories.

“Excellence in Data Management: Utilizing Your Quality Management System to Maximize Laboratory Efficiency”

**Instructor: Larry Lagman
www.kwalitymanagementsolutions.com**

Until his retirement in 2014 Mr. Lagman managed the quality system for the U.S. Food and Drug Administration’s Arkansas regional laboratory. He developed, implemented, and maintained programs to assure data integrity and laboratory respectability.

Before joining the US FDA in 2000, Mr. Lagman was a method development chemist with the US Department of Agriculture. While at the USDA he was honored with two very prestigious awards, the USDA “Merit Award” in 1996 and the “Group Honor Award for Excellence” in 2000.

He is currently the President of Kwality Management Solutions, an ISO/IEC 17025 consulting firm, and is a Lead Assessor, with Perry Johnson Laboratory Accreditation.

Mr. Lagman is an ASQ Certified Quality Manager / Organizational Excellence and an ASQ Certified Quality Manager.

With Mr. Lagman’s extensive experience at the bench and in quality management, he is sure to have a lot to share with our community. We look forward to host this excellent class.

Anant Jain Founder's Award

The 2016 Recipient is Bill Holmes

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 had an active role in the Section.

Past recipients:

1999 Anant Jain	2007 Lurlene Dixon
2000 Wick Johnson	2008 Jim McGuire
2001 Sher Ali	2009 Sherry Garris
2002 Virlyn Burse	2010 Reuben Beverly
2003 Doug Hite	2011 Anne Reid
2004 Jim Scott	2012 Dana Barr
2005 Larry Lagman	2013 Joe Rainey
2006 Mike Farrow	2014 Jay Hardee
	2015 Amy Brown

Doug Hite Honorarium

The 2016 Recipient is Amy Brown

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

The recipient will be determined by the Section Awards Committee and must have held a leadership role in the Section, 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 Association work.

Past recipients:

2006 Doug Hite
2007 Anant Jain
2008 Jo Marie Cook
2009 Gayle Lancette
2010 Wayne Ziemer
2011 Doug Hite
2012 JoMarie Cook
2013 Doug Hite
2015 Doug Hite

Fellows of AOAC INTERNATIONAL from the Southern Section

The Fellow of AOAC INTERNATIONAL Award recognizes the dedication and commitment of those volunteers who serve the Association. Fellows are chosen from those members who have given 10 years of meritorious service to AOAC.

1990 Ken Boyer
1992 Gayle Lancette
1997 George Latimer
1997 Anant Jain

2000 Argentina Vindiola
2001 Doug Hite
2006 Wayne Ziemer
2011 Jo Marie Cook

AOAC Southern Section Officers 2015-2016

President

Val Suktankar
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Past Presidents

1986	Anant Jain	2002	Michael Curry
1987	Frank Allen	2003	Jo Marie Cook
1988	Martha Hudak-Roos	2004	Evelyn Bonnin
1989	Sher Ali	2005	Wayne Ziemer
1990	Gail Parker	2006	J.McGuire & S.Garris
1991	Jim Hess	2007	Reuben Beverly
1992	Virlyn Burse	2008	Anne Reid
1993	Doug Hite	2009	Dana Barr
1994	Bill Brooks	2010	Joe Rainey
1995	Jim Scott	2011	Jay Hardee
1996	Larry Lagman	2012	Amy Brown
1997	Bert Lynn	2013	Bill Holmes
1998	Mike Farrow	2014	Tim Beasley
1999	Pat Beckett	2015	Val Suktankar
2000	Reba Ingram		
2001	Lurlene Dixon		

AOAC Southern Section Executive Committee Members 2015-2016

MEMBERS AT LARGE

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Notes:

Lobby Level

