



**Southern Section
of
AOAC
INTERNATIONAL**

25th Annual Meeting

**Doubletree Hotel
Buckhead**

**Atlanta
Georgia**

**Monday-Tuesday
April 11-12
2011**

**“Twenty Five Years of
Analytical Discovery”**

SUMMARY OF EVENTS

Sunday, April 10

9:00 – 5:00 PM

ISO 17025 Seminar

5:00 PM

Executive Committee Meeting Lenox Room

6:00 PM

Exhibit Setup

Monday, April 11

Exhibits 9:00 AM-4:00 PM Peachtree Ballroom

7:00 AM – 4:00 PM

Registration

8:00 AM – 9:00 AM

General Session Piedmont Room

9:00 AM – 6:05 PM

Workshops Piedmont Rooms A and B

6:00 PM – 9:00 PM

Evening Reception Savannah's Restaurant

Tuesday, April 12

Exhibits 9:00 AM-2:00 PM Peachtree Ballroom

8:00 AM – 8:50 AM

Workshop Piedmont Room A

8:50 AM – 12:00 PM

Microbiology Concurrent Session Piedmont Room A

Chemistry Concurrent Session Piedmont Room B

12:00 PM – 1:30 PM

Southern Section Luncheon Savannah's Restaurant

1:30 – 4:30 PM

Microbiology Concurrent Session Piedmont Room A

Chemistry Concurrent Session Piedmont Room B

VENDORS 2011

*Exhibit Area is open Monday from 9:00 AM to 4:00 PM
and Tuesday from 9:00 AM to 2:00 PM*

AB SCIEX
AES CHEMUNEX
AGILENT TECHNOLOGIES
BIOGX
BIO-RAD
BIOTAGE
BRUKER DALTONICS INC
CEDARLANE
CEM
DIONEX
EMD MILLIPORE
GERSTEL
GILSON
HANNA
ITT/O I ANALYTICAL
LECO
METROHM USA
METTLER TOLEDO
MKC ENTERPRISES
PERKIN ELMER
PICKERING†
QUANTUM ANALYTICS
RANDOX LABORATORIES
RESTEK
RETSCH
SHIMADZU
SORBENT TECHNOLOGIES
SPEX Sample Prep
THERMO SCIENTIFIC†
UCT INC
VICAM
VWR†
WATERS CORPORATION*

***The Southern Section appreciates the continuing support from Waters as sponsor of our "Evening Reception"**

† We wish to thank these exhibitors for sponsoring breaks.



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

April 11, 2011

Dear Colleagues:

Welcome again to Atlanta for the 25th Annual Meeting of the Southern Section of AOAC INTERNATIONAL. President-elect Jay Hardee has organized another exciting and informative program focusing on 25 years of Analytical Excellence. Please plan on attending our Monday reception as we celebrate 25 years of the Southern Section AOAC INTERNATIONAL, and meet with some of our past presidents and colleagues who have made this section what it is today.

Our exhibitors continue to contribute significantly to the success of our meeting. This year we have 35 exhibitors. Please visit the exhibits and let the vendors know how much we appreciate their support and active participation. In addition, we will once again offer an important Sunday seminar on ISO 17025 and have a poster session on Tuesday as well. Take advantage of these opportunities to learn the latest innovations in analytical sciences and ways to improve your laboratory operation.

In addition to Jay’s leadership, the continued success of the meeting and of the Section reflects the contributions of the many members of the Executive Committee. These leaders from state, federal, academic and private labs from across our region contribute their time and expertise to make our section successful. In fact, the planning for each meeting begins almost immediately after the previous meeting ends and involves the contributions of many to secure the meeting location, determine the meeting foods, handle registration materials and secure sponsors. Special appreciation should be given to Doug Hite who continues to develop our sponsor program which is always one of the highlights of each meeting and Amit Chakrabarti who maintains our website. We would like to congratulate the recipients of the 2011 Anant Jain Award and the 2011 Doug Hite Honorarium, Anne Reid and Doug Hite, respectively. Congratulations to these award recipients, and thanks for all the hard work on behalf of our section through the years.

Please provide your feedback—both suggestions and concerns—to any member of the Executive Committee. We want the meeting to be as enjoyable and worthwhile for you as possible. Also, please get involved in your Section! Let any of our leaders know of your interest in serving as a future committee member, or officer. It is a great way to interact with your colleagues across the region, and to grow professionally. Have a great meeting!

Sincerely,

Joe S. Rainey, President
Southern Section of AOAC INTERNATIONAL

Monday, April 11 General Session

Morning Session—Piedmont Room

- 8:00-8:05** Welcome—President
Joe Rainey, Coca-Cola Company
- 8:05-8:10** Call to Order—President-Elect
Jay Hardee, Waters Corporation
- 8:10-8:15** Presentation of the Anant Jain Founder's Award
Jay Hardee, Waters Corporation
- Presentation of the Doug Hite Honorarium
Joe Rainey, Coca-Cola Company
Sherry Garris, South Carolina Department of Agriculture
- 8:15-8:30** **AOAC International Update,**
Gayle Lancette, Past President, AOAC INTERNATIONAL
- 8:30-9:00** **Keynote Speaker**
Donald G. Patterson, PhD, EnviroSolutions Consulting

Morning Session Workshops Piedmont Rooms A and B

Moderator Piedmont Room A: Bill Brewer
Moderator Piedmont Room B: Bill Holmes

- 9:00-9:50** **Room A** An On-line Robotic Technique for Automating
QuEChERS Extractions for the Confirmation of Pesticide
Residues in Foods
Ed Pfannkoch, Ph.D. and Fred Foster, Ph.D., Gerstel
- Room B** Aflatoxin Analysis in Agricultural Products
Wendy Rasmussen, Ph.D., Pickering Labs
- 9:50-10:30** **Break—Cash Drawing and Door Prizes (Foyer)**
Visit Exhibitor Booths Peachtree Ballroom
- 10:30-11:20** **Room A** Amish Products: Grown Solely With Age-old Traditional Methods
or with a Helpful Hand from Modern Pesticides? Using
QuEChERS Approach and GCMS for the Analysis of Pesticides
in Amish Grown Products
Julie Kowalski, Ph.D. and Jack Cochran, Ph.D., Restek
- Room B** Applied Analytical: The Latest in Analytical Technologies for
Chemical Analysis
Meredith Conoley, Ph.D., Bruker Daltonics
- 11:20-12:20** **Cash Drawing and Door Prizes--Lunch (on your own)**

Monday, April 11, Afternoon Session--Workshops

Refreshments in the Foyer 2:00-2:45 PM

Piedmont Rooms A and B

Moderator Piedmont Room A: Joe Basile

Moderator Piedmont Room B: Dana Shell

- 12:20-1:10 Room A** MALDI Biotyper: A Breakthrough in Microbial Identification Techniques for Food and Product Safety
Darwin Asa, Ph.D., Bruker Daltonics
- Room B** Characterization of Natural Products by HPLC with Charged Aerosol Detection and Coulometric Array Detection : From Targeted Analyses to Metabolomics
Marc Plante, Ph.D., Dionex
- 1:10-2:00 Room A** Molecular Detection of Food Pathogens by ADIAFOOD
Patricia Kucinski, AES Chemunex
- Room B** Rapid Simultaneous Carbon and Nitrogen Determination in Plant Tissue and Soils Matrix using High Temperature Combustion Technique and a True Macro Sample Size
Mason Marsh, Ph.D., LECO
- 2:00-2:45 Break (Foyer) –Visit Exhibitor Booths, Peachtree Ballroom**
- 2:45-3:35 Room A** Improved Consistency, Throughput, and Analyte Recovery Using the Geno/Grinder
Lea Anderson-Smith, Ph.D., SPEX SamplePrep
- Room B** Adventures in Solid Phase and Supported Liquid Extraction: Clinically Challenging and Environmental Impossible...Or So It Seems
Victor E. Vandell, Ph.D., Biotage
- 3:35-4:25 Room A** How to Get Cost and Time Saving Rapid Results with iQ-Check Real-Time PCR
Adam Greer, Ph.D., Bio-Rad
- Room B** Speed Beyond Compare: How the LCMS-8030 Can Accelerate Your Work Flows
Thomas Hayes, Ph.D., Shimadzu
- 4:25-5:15 Room A** Highly Sensitive and Robust Analysis of Lipophilic Marine Toxins in Shellfish
Jeff Keever, Ph.D., Agilent
- Room B** POP's Quiz-Advances in Persistent Organic Pollutant Analysis
Eric Phillips, Ph.D., Thermo Scientific
- 5:15-6:05 Room A** Rapid Multiplex qPCR for the Detection of the 'Big Six' Serotypes of Non-0157 STEC in Beef and Produce Using Automated Sample Prep and Lyophilized Sample-Ready Reagents
Michael C.L. Vickery, Ph.D., Biogx
- Room B** Maximizing the Potential of High Resolution Mass Spec in Targeted and Non-Targeted Screening
Charles Yang, Ph.D., Thermo Scientific

6:00 – 9:00 PM Evening Reception Savannah's Restaurant

Tuesday, April 12, Morning Session Workshop

- 8:00-8:50 A& B** FDA Food Safety Modernization Act of 2011: Worldwide Implications and Novel Mass Spectrometry Strategies
Ken Rosnack, Ph.D., Waters Corporation

Tuesday, April 12

Microbiology Presentations

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

Moderator: Val Suktankar

- 8:55-9:20** **Rapid Gas Chromatographic Analysis of Furfural and Acetic Acid from Lignocellulose Hydrolysate in Fermentation Media**
Bill Holmes, Darrell Sparks, Andro Mondala, Rafael Hernandez
Dave C. Swalm School of Chemical Engineering, Mississippi State University
- 9:20-9:45** **Quantification of Influenza Neuraminidase Activity by LC-MS/MS**
Maria Solano, CDC
- 9:45-10:10** **Using Municipal Wastewater as a Medium for the Induction of Lipid Synthesis in the Oleaginous Yeast *Rhodotorula glutinis***
Mary Hetrick, Jaclyn I. Hall, Todd French, Rafael Hernandez, Hodon Ryu, William Holmes, Kyle Barfield and Elisabeth Gent
Dave C. Swalm School of Chemical Engineering, Mississippi State University
- 10:10-10:45** **BREAK ---Cash Drawing and Door Prizes (Foyer)**
Visit Exhibitor Booths Peachtree Ballroom
- 10:45-11:10** **Mycotoxin Binding Optimization**
Ian Johnston, Darrell Sparks and Ashli Brown
Department of Biochemistry, Molecular Biology, Entomology, and Plant Pathology, Mississippi State University
- 11:10-11:35** **Sensitive and Specific Detection of Anthrax Edema Factor by LC-MS/MS**
Renato Lins, Battelle/CDC
- 11:35-12:00** **A Novel Molecular Method for the Rapid Detection and Differentiation of Group I “Dirty 22” Species Responsible for Spreading Food-borne Pathogens: A Public Health Importance”**
Irshad M. Sulaiman, U.S. Food and Drug Administration
- 12:00-1:30** **LUNCH BREAK ---Cash Drawing and Door Prizes**
Visit Exhibitor Booths Peachtree Ballroom

Tuesday, April 12

Microbiology Presentations

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

Moderator: Wayne Ziemer

- 1:30 -1:55** **Quantification of Botulinum Neurotoxin in Serum**
Bryan Parks, CDC
- 1:55-2:20** **Identification of FDA’s “Dirty 22” species by Light Microscopy
and Scanning Electron Microscopy**
Mickey Anderson, Jason Nickelsen, Cheryl Love-Harris, Irshad
Sulaiman and Edwin Phifer, U.S. Food and Drug Administration
- 2:20-2:45** **BREAK—Cash Drawing and Door Prizes (Foyer)**
- 2:45-3:10** **Anthrax Toxemia in Human Cases and Animal Models**
Maribel Gallegos Candela, CDC
- 3:10-3:35** **Proteomic Characterization of Botulinum Neurotoxins**
Jakub Baudys, CDC
- 3:35-3:50** **Assessing Problems that Occur During the Transportation of
Fresh Produce**
Stephanie Bolton, Mark Harrison, William Hurst,
Dept. of Food Science and Technology, University of Georgia
- 3:50-4:05** **Salmonella Survival on Tomatoes and Transfer to Contact
Surfaces Under Selected Simulated Transportation Conditions**
Christabelle Piansay, Mark Harrison, William Hurst
Dept. of Food Science and Technology, University of Georgia

Tuesday, April 12

Chemistry Presentations

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

Moderator: Sherry Garris

- 8:50-9:25** **Streamlining Analytical Methods for Pesticides and Veterinary Drug Residues in Foods**
Steven J. Lehotay
USDA Agricultural Research Service Eastern Regional Research Center
- 9:25-9:45** **Analysis of Acidic Herbicides in Various Matrices Using QuEChERS and LC/MS/MS**
Heather Kirby, Amit Charkrabarti and Doug Hite
Tennessee Department of Agriculture
- 9:45-10:10** **Measurement of Pesticides in Baby Food**
Ron Hunter, Emory University
- 10:10-10:45** **BREAK---Cash Drawing and Door Prizes (Foyer)**

Visit Exhibitor Booths Peachtree Ballroom
- 10:45-11:10** **Development of a More Efficient and Rugged Method for Antibiotics in Honey**
Molly Cumming and Doug Hite
Tennessee Department of Agriculture
- 11:10-11:35** **Automated QuEChERS with LC/MS/MS and GC/MS Analysis**
William E. Brewer, Pakritsadang Kaewsuya and Stephen L. Morgan,
Department of Chemistry and Biochemistry, University of South Carolina
- 11:35-12:00** **Measurement of Pesticides and Degradates in Food**
Samantha Adkins, Emory University
- 12:00-1:30** **LUNCH BREAK---Cash Drawing and Door Prizes**

Visit Exhibitor Booths Peachtree Ballroom

Tuesday, April 12

Chemistry Presentations

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

Moderator: Dana Barr

- 1:30 -1:55** **Analysis of Mycotoxins in Grain Products using DPX and LC/MS/MS**
William E. Brewer
Department of Chemistry and Biochemistry, University of South Carolina
- 1:55-2:20** **Spectrophotometric Method for Determination of Xylose in Fermentation Medium**
Patrisha J. Pham, Rafael Hernandez, William T. French, Benjamin G. Estill and Andro H. Mondala
Dave C. Swalm School of Chemical Engineering, Mississippi State University
- 2:20-2:45** **BREAK---Cash Drawing and Door Prizes (Foyer)**
- 2:45-3:10** **The Measurement of Pesticides in Dust Samples**
Geneva Bernoudy, Emory University
- 3:10-3:35** **Measurement of Pesticides in Breast Milk**
Xianyu Chen, Emory University
- 3:35-4:00** **Polycyclic Aromatic Hydrocarbon Analysis: A Look at the Fluorescence Technique as well as the NOAA Method**
Jonathan V. Pelt
Florida Department of Agriculture & Consumer Services
- 4:00-4:25** **Degradation of Organophosphorus and Pyrethroid Insecticides in Beverages**
Samantha Adkins, Emory University

Southern Section of AOAC
April 12, 2011
Poster Presentations
Poster Space (48" X 72")

Evaluation of the Capability of *Rhodotorula glutinis* to Produce Cellulase and Hemicellulase

Miriam Revellame¹, Renuka Shivaji¹, Darrell Sparks¹, Rafael Hernandez², Todd French², and Ashli Brown¹ ¹Department of Biochemistry, Molecular Biology, Entomology, and Plant Pathology, Mississippi State University; ²Dave C. Swalm School of Chemical Engineering, Mississippi State University

GC-TOFMS and GCxGC-TOFMS of Acephate in Bird Gizzards

Doug Hite, Tennessee Department of Agriculture and Jack Cochran, LECO

Using Genomic Techniques to Identify Bacteria in Panda Fecal

Katherine McGinley^{1,2}, Candace Williams¹, Renuka Shivaji¹, Andy Kouba³, Scott Willard¹, and Ashli Brown¹ ¹Department of Biochemistry, Molecular Biology, Entomology, and Plant Pathology, Mississippi State University; ²College of Nursing and Speech Language Pathology, Mississippi University for Women; ³Memphis Zoological Society

For the Love of Bees (Rapid Multi-Residue Analysis of Pesticides in Honey using a Buffered Acetonitrile Extraction and Dispersive Clean-Up)

Jon Pelt and Amy Brown, Florida Department of Agriculture & Consumer Services

A Rapid Multi-Residue Analysis of Pesticides in Fruits and Vegetables using a Buffered Acetonitrile Extraction and Dispersive Clean-Up

Amy Brown and Jo Marie Cook, Florida Department of Agriculture & Consumer Services

How DPX and Micro Luke Works at SCDA to Screen Produce for Pesticide Residue

Sherry T. Garris, South Carolina Department of Agriculture

Disposable Pipette Extraction (DPX) Tips for Rapid Cleanup for Simultaneous Analysis of Melamine and Cyanuric Acid using GC/MS/MS and LC/MS/MS

William E. Brewer, Department of Chemistry and Biochemistry, University of South Carolina

Rapid Multi-Analytical Screening of Antimicrobials in Different Food Matrices with Evidence Biochip Arrays

Mathew Clarke, Porter, J., Benchikh, E.O., McConnell, R.I., Fitzgerald, S.P, Radox Laboratories

Biomarkers of Di(isononylcyclohexane)-1,2-dicarboxyl

Silva, Manori, CDC

Determination of Micronutrients in Feed Products by ICP/MS

Jim McGuire and Doug Hite, Tennessee Department of Agriculture

The Effect of Dietary Changes on Microbial Populations Within the Giant Panda

Candace Williams¹, William Holmes², Carol Williams³, Andy Kouba⁴, Darrell Sparks¹, Scott Willard¹, J.Fields Falcone⁴, and Ashli Brown¹

¹Department of Biochemistry, Molecular Biology, Entomology, and Plant Pathology, Mississippi State University; ²Dave C. Swalm School of Chemical Engineering, Mississippi State University; ³Mississippi State Chemical Laboratory; ⁴Memphis Zoological Society

Rapid Multi-Analytical Screening of Antimicrobials in Different Food Matrices with Evidence Biochip Arrays

Porter, J., Benchikh, E.O., Clarke, M., McConnell, R.I., Fitzgerald, S.P, Radox Laboratories Inc

Anant Jain Founder's Award

The 2011 Recipient is Anne Reid

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:

1999 Anant Jain	2005 Larry Lagman
2000 Wick Johnson	2006 Mike Farrow
2001 Sher Ali	2007 Lurlene Dixon
2002 Virlyn Burse	2008 Jim McGuire
2003 Doug Hite	2009 Sherry Garris
2004 Jim Scott	2010 Reuben Beverly

Doug Hite Honorarium

The recipient for 2011 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:

2006 Doug Hite
2007 Anant Jain
2008 Jo Marie Cook
2009 Gayle Lancette
2010 Wayne Ziemer

Fellows of AOAC INTERNATIONAL from the Southern Section

1990 Ken Boyer	2000 Argentina Vindiola
1992 Gayle Lancette	2001 Doug Hite
1997 George Latimer	2006 Wayne Ziemer
1997 Anant Jain	

AOAC Southern Section Officers 2010-2011

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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 2010-2011

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Lobby Level

