



Southern Section
of
AOAC
INTERNATIONAL

21st Annual Meeting

Coping with Analytical Reality

Doubletree Hotel
Buckhead

Atlanta, Georgia

Monday-Tuesday
April 23-24
2007

Southern Section of AOAC International

**AOAC Southern Section
Officers 2006-2007**

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(Presidents' message)

Monday, April 23, General Session

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

- Moderator:** Reuben Beverly
- 8:00-8:10** Welcome—Co-Presidents
Sherry Garris, South Carolina Department of Agriculture
Jim McGuire, Tennessee Department of Agriculture
- 8:10-8:20** Call to Order—President-elect
Reuben Beverly, Georgia Department of Agriculture
- 8:20 to 8:30** Presentation of the Anant Jain Founder's Award
Doug Hite, Tennessee Department of Agriculture
- Presentation of the Doug Hite Honorarium
Jim McGuire, Tennessee Department of Agriculture
- 8:30-9:10** Keynote Address:
Global Microbiological Food Safety Issues Before Us
Michael Doyle, Ph.D., Regents Professor and Director,
Center for Food Safety, University of Georgia
- 9:10-9:30** *Comparison of American and Chinese Food Safety Systems*
Mike Farrow, Georgia Department of Agriculture
- 9:30-9:50** *Mobile Laboratory Operations at a WMD Incident*
Cpt. Mark Stewart, Georgia National Guard 4th WMD-CST
- 9:50-10:40** **Break**
Visit Exhibits!
- 10:40-11:05** *CBR Advisor—An Expert System Companion to NEMI-CBR*
Larry Keith, Ph.D, Instant Reference Sources
- 11:05-11:25** *LabDIR/FoodSHIELD—Tools for Food and Agriculture Protection and Defense*
Bill Krueger, Minnesota Department of Agriculture
- 11:25 -12:00** *Panel Discussion: Standards of Evidence in Regulatory Analysis, or, How much Evidence is Enough?*
- 12:00-1:00** **Lunch (on your own)**

Monday, April 23, General Session

Afternoon Session--Workshops

Exhibits in the Peachtree Ballroom

Refreshments in the Peachtree Ballroom 2:30-3:30 PM

1:00-1:55

Piedmont Room 1 *Improving GC/MS and LC/MS Techniques for Small Molecules in Complex Samples*

**John Dimandja, Ph.D., Spelman College, and
Brian Shofran, LECO**

Piedmont Room 2 *Determination of Fat, Moisture and Protein in Meat Products Using the FOSS FoodScan Near-Infrared (NIR) Spectrophotometer*

Shirley Anderson, FOSS North America

2:00-2:55

Piedmont Room 1 *Multi-Residue Analysis of Pesticides in Water Samples using an Automated LC/MS (E Quan)*

Jonathan R. Beck, Ph.D., Thermo Fisher

Piedmont Room 2 *Diverilab, Bacterial Straintyping from bioMerieux*

Randy Casey, bioMerieux

3:00-3:55

Piedmont Room 1 *New LC/MS Technologies for Food Safety*

Aisling O'Connor, Ph.D., Waters Corporation

Piedmont Room 2 *Enhanced IMS: Invitrogen Complete workflow solutions for identifying food and water pathogens.*

**Brian Strohecker, Ph.D. and
Ian Silber, Invitrogen Environmental Diagnostics**

4:00-4:55

Piedmont Room 1 *LC/MS/MS in Environmental and Food Contaminants Analysis*

**Becky Wittrig, Ph.D., Restek Corporation and
Greg Eppink, Ph.D., Applied Biosystems**

Piedmont Room 2 *Luminescence Based Diagnostics for Food Safety*

Stephen Holmes, Charm Sciences, Inc.

Tuesday, April 24

Chemistry Concurrent Session

Morning Session—Piedmont Room 1
Breaks and Exhibits in the Peachtree Ballroom

- Moderator:** Sherry Garris, South Carolina Department of Agriculture
- 8:30-8:55** *Analysis of Pesticides by GC/MS/NCI and Deconvolution with EI*
Amit Chakrabarti, Ph.D., Tennessee Department of Agriculture
- 8:55-9:20** *Determination of Acidic Herbicides in Vegetation and Soil by LC/MS/MS/MS*
Molly Cumming, Tennessee Department of Agriculture
- 9:20-9:45** *DPX Compared to the Luke Multiresidue Extraction Method in Produce*
William E. Brewer, Ph.D., University of South Carolina
Sherry Garris, South Carolina Department of Agriculture
- 9:45-10:10** *The Future of Pesticide Residue Analysis*
Frank J. Schenck, FDA Southeast Regional Laboratory
- 10:10-10:45** **Break, Cash Drawing, Visit Exhibitor Booths**
Peachtree Ballroom
- 10:45-11:10** *Analysis of Fluoroquinolones in Honey by LC-MSMS and LC-MSMSMS*
Donna Kilpatrick, Florida Department of Agriculture and Consumer Services
- 11:10-11:35** *Mercury in Seafood: How much is there and is it significant*
Marc Engel, Florida Department of Agriculture and Consumer Services
- 11:35 -12:00** *Join the AOAC Community on Chemical Contaminants and Residues in Foods*
Jo Marie Cook, Florida Department of Agriculture and Consumer Services
- 12:00-1:30** **Southern Section Luncheon**

Tuesday, April 24

Microbiology Concurrent Session

Morning Session—Piedmont Room 2
Breaks and Exhibits in the Peachtree Ballroom

Moderator:

- 8:30-8:55** *Occurrence of L.monocytogenes in 8000 Samples of Ready-to-Eat Deli Meats and Poultry from Four FoodNet States*
Ann Draughon, Ph.D., University of Tennessee
- 8:55-9:20** *Food Microbiology at the Georgia Department of Agriculture*
Rebecca Dyes, Georgia Department of Agriculture
- 9:20-9:45** *Measurement of Anthrax Lethal Factor and Toxin to Follow and Improve Diagnosis and Prognosis of Inhalation Anthrax Intoxication*
Anne Boyer, Centers for Disease Control
- 9:45-10:10** *Development of a QCM biosensor for Detection of Pseudomonas.*
Jeffrey Evans, Amy Denson, Scott Walper, Sabine Heinhorst, and Gordon Cannon, University of Southern Mississippi
- 10:10-10:45** **Break, Cash Drawing, Visit Exhibitor Booths**
Peachtree Ballroom
- 10:45-11:10** *Detection and Differentiation of Botulinum Neurotoxin Serotypes Using Mass Spectrometry*
John R. Barr, Ph.D., Centers for Disease Control
- 11:10-11:35** *Filth and Extraneous Materials in Food Products, Part of the 2007 FDA National Check Sample Program*
Mickey Anderson, FDA Southeast Regional Laboratory
- 11:35 -12:00** *The Use of Microorganisms in the Production of Bio-crude, a Renewable Fuel*
William Holmes, Todd French, Rafael Hernadez, Ashli Brown, Mississippi State University
- 12:00-1:30** **Southern Section Luncheon**

Tuesday, April 24

Chemistry Concurrent Session

Afternoon Session—Piedmont Room 1
Breaks and Exhibits in the Peachtree Ballroom

Moderator:

- 1:30-1:55** *Measurement of Diethylene Glycol in Tainted Cough Syrups from an Outbreak of Acute Renal Failure in Panama*
Amanda Bishop, Centers for Disease Control
- 1:55-2:20** *Measurement of Pyrethroid and Organophosphorus Insecticides in Human Serum*
Jose Perez, Centers for Disease Control
- 2:20-2:45** *Measurement of Atrazine-related Chemicals in Biological Matrices of Humans and Rats*
Simeon Udunka, Centers for Disease Control
- 2:45-3:05** **Break, Visit Exhibitor Booths**
Peachtree Ballroom
- 3:05-3:30** *Analysis of Monensin, Salinomycin and Narasin in Feeds by LC Post-Column Derivation*
Allen Williams, Ph.D., Tennessee Department of Agriculture
- 3:30-3:55** *Rapid Analysis of Terrorist Agents*
David C. Deardorff, Abraxis, LLC
- 3:55-4:20**
- 4:20-4:30**

Tuesday, April 24

Microbiology Concurrent Session

Afternoon Session—Piedmont Room 1
Breaks and Exhibits in the Peachtree Ballroom

Moderator:

1:30-2:20

Using Mass Spectrometry to Analyze Microbes
**Marc Engel, Florida Department of Agriculture and
Consumer Services**

2:20-2:45

*Detection and Differentiation of Whole Organisms Using
Mass Spectrometry*
Hercules Moura, Ph. D., Centers for Disease Control

2:45-3:05

Break, Visit Exhibitor Booths
Peachtree Ballroom

3:05-3:30

Selester Bennett, Applied Food Technologies

3:30-3:55

3:55-4:20

4:20-4:30

2007 Southern Section AOAC Speakers

Shirley Anderson
FOSS North America

David C. Deardorff
Abraxis, LLC

Donna Kilpatrick
Florida DOACS

Mickey Anderson
FDA

John Dimandja, Ph.D.
Spelman College

Bill Krueger
MN Dept. of Agriculture

John Barr, Ph.D.
CDC

Michael Doyle, Ph.D.
University of Georgia

Hercules Moura, Ph. D.
CDC

Joe Basile, ???
AL Dept. of Agriculture

Ann Draughon, Ph.D.,
University of Tennessee

Jose Perez
CDC

Jonathan R. Beck, Ph.D.
Thermo Fisher

Rebecca Dyes
GA Dept. of Agriculture

Joe Romano, Ph.D.
Waters Corporation

Selester Bennett
Applied Food
Technologies

Marc Engel
Florida DOACS

Frank J. Schenck,
FDA

Amanda Bishop
CDC

Greg Eppink, Ph.D.
Applied Biosystems

Brian Shofran
LECO

Anne Boyer
CDC

Jeffrey Evans
Univ. of Southern
Mississippi

Ian Silber
Invitrogen Environmental
Diagnostics

William E. Brewer, Ph.D.
Univ. of South Carolina

Mike Farrow
GA Dept. of Agriculture

Cpt. Mark Stewart,
Georgia National Guard
4th WMD-CST

Randy Casey
bioMerieux

Sherry Garris
SC Dept. of Agriculture

Brian Strohecker, Ph.D.
Invitrogen Environmental
Diagnostics

Amit Chakrabarti, Ph.D.
TN Dept. of Agriculture

Stephen Holmes
Charm Sciences, Inc.

Simeon Udunka
CDC

Jo Marie Cook
Florida DOACS

William Holmes
Mississippi State Univ.

Allen Williams, Ph.D.
TN Dept. of Agriculture

Molly Cumming
TN Dept. of Agriculture

Larry Keith, Ph.D.
Instant Reference Sources

Becky Wittrig, Ph.D.
Restek Corporation

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

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

Anant Jain Founder's Award

The 2007 recipient is **Lurlene Dixon**

Past recipients:

1999 Anant Jain
2000 Wick Johnson
2001 Sher Ali
2002 Virlyn Burse
2003 Doug Hite
2004 Jim Scott
2005 Larry Lagman
2006 Mike Farrow

Doug Hite Honorarium

The 2007 recipient is **Anant Jain**

Past recipient:

2006 Doug Hite

**Southern Section of AOAC
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 Joanne Cook
2004 Evelyn Bonnin
2005 Wayne Ziemer
2006 Sherry Garris and
Jim McGuire

**AOAC Southern Section
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Exhibitors

Peachtree Ballroom

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

**ABRAXIS
APPLIED BIOSYSTEMS
AGILENT TECHNOLOGIES
BIOMERIEUX
CEM
CEPHEID
CHARM SCIENCES
DIONEX
ELISA TECHNOLOGIES
EMD CHEMICALS
FISHER SCIENTIFIC
FOSS NORTH AMERICA
GERSTEL
HORIZON TECHNOLOGY
INVITROGEN
ION SIGNATURE TECHNOLOGY
LEAP TECHNOLOGIES
LECO CORPORATION
MATHESON TRI GAS *
METTLER TOLEDO
MILLIPORE CORPORATION
PERKIN ELMER
PICKERING LABORATORIES
POLLUTION CONTROL *
PROMEGA
RESTEK
RETSCH
RITE WEIGHT
SHIMADZU SCIENTIFIC
SPELCO/SIGMA-ALDRICH
THERMO FISHER SCIENTIFIC
UNITED CHEMICAL TECHNOLOGY
VARIAN
VICAM
VWR
WATERS**

***We wish to thank these exhibitors for sponsoring breaks.**

SUMMARY OF EVENTS

Sunday, April 22

5:00 PM **Executive Committee Meeting** Davidson Boardroom
Exhibit Setup 6:00 PM-12:00

Monday, April 23 **Exhibits 9:00 AM-4:00 PM** Peachtree Ballroom

7:00 AM-4:00 PM **Registration**

8:00 AM –Noon **General Session** Piedmont Room

1:00 PM – 5:00 PM **Workshops** Piedmont Rooms 1 and 2

Improving GC/MS and LC/MS Techniques for Small Molecules in Complex Samples

Determination of Fat, Moisture and Protein in Meat Products Using the FOSS FoodScan Near-Infrared (NIR) Spectrophotometer

Multi-Residue Analysis of Pesticides in Water Samples using an Automated LC/MS (E Quan)

Diverilab, Bacterial Straintyping from bioMerieux

New LC/MS Technologies for Food Safety

Enhanced IMS: Invitrogen Complete workflow solutions for identifying food and water pathogens.

LC/MS/MS in Environmental and Food Contaminants Analysis

Luminescence Based Diagnostics for Food Safety

5:00 – 7:00 PM **Evening Reception** Savannah's Restaurant

Tuesday, April 24 **Exhibits 9:00 AM-3:00 PM**

8:30 AM –12:00 **Chemistry Concurrent Session** Piedmont Room 1
Microbiology Concurrent Session Piedmont Room 2

12:00 – 1:30 PM **Southern Section Luncheon**

1:30 PM – 4:30 PM **Chemistry Concurrent Session** Piedmont Room 1
Microbiology Concurrent Session Piedmont Room 2