



**AOAC**  
INTERNATIONAL

Southern Section  
of  
AOAC  
INTERNATIONAL

24th Annual Meeting

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# FINAL PROGRAM

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Doubletree Hotel  
Buckhead

Atlanta, Georgia

*Monday-Tuesday*  
*April 19-20*  
*2010*

*“Emerging Technologies in Time of Change”*

[www.ssaoac.com](http://www.ssaoac.com)

## **Southern Section of AOAC International 24th Annual Meeting**

The Southern Section of AOAC INTERNATIONAL 24th Annual Meeting will be held Monday and Tuesday, April 19-20, 2010 in Atlanta, Georgia, at the Doubletree Hotel Buckhead.

The theme of the meeting will be “Emerging Technologies in Time of Change” and will feature presentations by chemists and microbiologists in both private and government laboratories.

Developing and applying analytical technology is an ever evolving science. As methods change or progress, we may need to revisit important technologies associated with those methods. How do we develop methods as more sophisticated instrumentation is available? What method parameters should be validated to ensure optimal performance of the new technologies? What are the best testing schemes? How do we evaluate our new technology quality control and assurance? How and what should be reported to our stakeholders?

Please join your colleagues from all over the southern US to discuss topics of interest to the analytical community. Laboratory managers, bench analysts, and quality assurance officers will all find topics to enhance their professional expertise.

Monday's General Session will include speakers specifically targeting our conference theme.

The Monday session will include informative workshops on topics in microbiological technologies such as PCR and new food pathogen detection and chemical technologies improvements in GC/MS, LC/MS and LC/MS/MS techniques for various types of analyses. The Monday session will end with an Evening Reception.

Tuesday will include concurrent sessions in chemistry and microbiology. Also on Tuesday, we will have a luncheon in the Exhibit Area, which is included with the registration fee. Don't miss this opportunity to interact with your colleagues and over thirty vendors who will be exhibiting this year.

The Doubletree Hotel is located in the heart of Buckhead only 25 minutes from the airport and 10 minutes from downtown Atlanta. Buckhead has the best restaurants, shopping and entertainment in the Southeast. Join us April 19-20. Welcome to Atlanta!

## SUMMARY OF EVENTS

### Sunday, April 18

4:00 – 5:30 PM

**ISO 17025 Seminar**

5:30 PM

**Executive Committee Meeting** Lenox Room

6:00 PM

**Exhibit Setup**

### Monday, April 19

**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 – 8:00 PM

**Evening Reception** Savannah's Restaurant

### Tuesday, April 20

**Exhibits 9:00 AM-2:00 PM**

8:30 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 2010**

*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\***  
**ABBOTT MOLECULAR†**  
**ACCELERATED TECHNOLOGY**  
**AGILENT TECHNOLOGIES\***  
**APPLIED BIOSYSTEMS**  
**ASTORIA-PACIFIC**  
**BIOGX**  
**BIO-RAD**  
**BIOTAGE**  
**BRUKER DALTONICS INC**  
**CEDARLANE**  
**CEM**  
**DIENCE BEVERAGES**  
**DIONEX**  
**EMD**  
**FISHER SCIENTIFIC†**  
**GERSTEL**  
**GILSON**  
**HANNA**  
**HELMER**  
**INDUSTRIAL MICROBIOLOGICAL LABORATORIES**  
**LECO**  
**METROHM USA**  
**METTLER TOLEDO**  
**MILLIPORE CORP**  
**MKC ENTERPRISES**  
**NOVAMED**  
**OMNI INTERNATIONAL**  
**PAGE & PEDERSEN**  
**PERKIN ELMER**  
**PHENOMENEX**  
**PICKERING†**  
**QUANTUM ANALYTICS**  
**RESTEK**  
**RETSCH**  
**SHIMADZU†**  
**SORBENT TECHNOLOGIES**  
**THERMO SCIENTIFIC**  
**THERMO SCIENTIFIC LED**  
**UCT INC**  
**VARIAN**  
**VWR**  
**WATERS**

**\*The Southern Section appreciates the continuing support from these exhibitors  
as co-sponsors 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 19, 2010

Dear Colleagues:

Welcome again to Atlanta for the 24th Annual Meeting of the Southern Section of AOAC INTERNATIONAL. President-elect Dr. Joe Rainey has organized another exciting and informative program focusing on the emerging technologies we can and do use during times of change. Each year, more sensitive and robust analytical platforms emerge that allow us to address critical problems such as contaminated food products, toxicants leachable from food packaging, and accurately diagnosing diseases. Each year brings with it new challenges like addressing pharmaceuticals in drinking water, issues surrounding the use of nanoparticles for drug delivery, and even the use of green chemistry.

In addition to Joe'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. We would like to congratulate the recipients of the 2010 Anant Jain Award and the 2010 Doug Hite Honorarium, Dr. Reuben Beverly and Wayne Ziemer, respectively. Congratulations to these award recipients, and thanks for all the hard work on behalf of our section through the years.

Our exhibitors continue to contribute significantly to the success of our meeting. This year we have 42 exhibitors. Please visit the exhibits and let the vendors know how much we appreciate their support and active participation. Also, in lieu of a keynote presentation, we have dedicated more time to vendor workshops with a record fourteen taking place on the first day of the meeting. In addition, for the first time, we offer an important Sunday workshop on ISO accreditation. Take advantage of these opportunities to learn the latest innovations in analytical sciences and ways to improve your laboratory operation.

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, director or officer. It is a great way to interact with your colleagues across the region, and to grow professionally. Have a great meeting!

Sincerely,  
Dana Boyd Barr, President  
Southern Section of AOAC INTERNATIONAL

## Monday, April 19 General Session

### Morning Session—Piedmont Room

- 8:00-8:10** Welcome—President  
**Dana Barr, Emory University**
- 8:10-8:20** Call to Order—President-Elect  
**Joe Rainey, Coca-Cola**
- 8:20-8:40** Presentation of the Anant Jain Founder's Award  
**Joe Rainey, Coca-Cola**
- Presentation of the Doug Hite Honorarium  
**Dana Barr, Emory University**
- 8:40-9:00** **AOAC International Update,**  
**Gayle Lancette, President, AOAC INTERNATIONAL**

### Morning Session Workshops

**Moderator Piedmont Room A:** Jo Marie Cook  
**Moderator Piedmont Room B:** Joe Basile

**9:00-9:50**

- Piedmont Room A** Determination and Confirmation of Aflatoxins B1,B2,G1 and G2 in Food Matrices using Tandem LC-MS/MS  
Jeff Kever, Ph.D., Agilent Technology
- Piedmont Room B** Rapid Nitrogen/Protein Determination Using High Temperature Combustion and a True Macro Sample Size in Fertilizer, Plant Tissue and Soil Matrix  
Mason Marsh, LECO

**9:50-10:30** **Break—Cash Drawing and Door Prizes (Foyer)**  
**Visit Exhibitor Booths** Peachtree Ballroom

**10:30-11:20**

- Piedmont Room A** Chemical Waste Safety and EPA Compliance for Laboratories  
Glenn Magley, CHMM, MKC Enterprises
- Piedmont Room B** Sugar Analysis, Including New Artificial Sweeteners, in Food and Beverage by UPLC  
Mark Benvenuti, Ph.D., Waters Corporation

**11:20-12:20** **Cash Drawing and Door Prizes--Lunch (on your own)**

## Monday, April 19 Afternoon Session--Workshops

Refreshments in the Foyer 2:00-3:35 PM

**Moderator Piedmont Room A:** Amy Brown

**Moderator Piedmont Room B:** Joe Basile

### 12:20-1:10

**Piedmont Room A** Innovative, Affordable New Rapid Methods for Automated Physical Chemistry Testing of Milk and Milk Products throughout the Dairy Supply Chain  
Jacquelin Page, Page & Pedersen International

**Piedmont Room B** Extraction and GC Analysis of Aqueous Samples using Stir Bar Sorptive Extraction  
Edward Pfannkoch, Ph.D. and Jack Stuff, Ph.D., Gerstel

### 1:10-2:00

**Piedmont Room A** Eliminating the Need for Extraction in GC-MS Pesticide Analysis  
Eric Phillips, Ph.D., Thermo Scientific

**Piedmont Room B** Automated Real-time PCR Technology for the Detection of Food and Water Pathogens, Genetically Modified Food, and Adulterated Market Fish  
Michael Vickery, Ph.D., BioGX

### 2:00-2:45

**Break (Foyer) –Visit Exhibitor Booths, Peachtree Ballroom**

### 2:45-3:35

**Piedmont Room A** Complete Rapid Molecular Workflow for Pathogen Detection in Food Matrices  
Jeffrey Strain, MS, Applied Biosystems

**Piedmont Room B** Advances in Multi-Residue Pesticide Analysis by GC/MS/MS  
Phil Wylie, Ph.D., Agilent Technology

### 3:35-4:25

**Piedmont Room A** Advances in Real Time PCR for Pathogen Detection in Food  
Debarati Bhattacharya, Ph.D., EMD Chemicals

**Piedmont Room B** Comprehensive and Efficient Analysis of Impurities and Contaminants in Pharmaceutical, Food, and Consumer Products  
Darwin Asa, Ph.D., Bruker Daltonics

### 4:25-5:15

**Piedmont Room A** Automation Solutions for the Extraction and Clean-up of Residues and Natural Toxins from Food and Water  
Mike Halvorson, Ph.D., and Bruce Thompson, Gilson

**Piedmont Room B** Comparison of Solid Phase Extraction, Supported Liquid Extraction and Sample Prep Techniques for Blood and Urine Samples With Environmental and Clinical Applications  
Elena Gairloch, Biotage

### 5:15-6:05

**Piedmont Room B** Effective Sample Cleanup, Preparation and Guaranteed Chemistry: Keys to an Effective Analytical Method  
Wendy Rasmussen and Laszlo Toma  
Pickering Laboratories

**6:00 – 8:00 PM**

**Evening Reception Savannah's Restaurant**

## Tuesday, April 20

### Microbiology Presentations

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

**Moderator:** Wayne Ziemer

- 8:30-8:55** Detection of Botulinum Toxin A Meso Scale Electrochemiluminescence Technology  
James Jones, USDA/FSIS/OPHS/FERN/MFDERB
- 8:55-9:20** A Novel Rapid Method for the Simultaneous Detection and DNA Subtyping of Salmonella Using MassCode Multiplexing  
Greg Richmond, Agilent Laboratories-Molecular Separations
- 9:20-9:45** Usage of Nucleotide Sequencing in Outbreak, Epidemiology, and Surveillance Settings: A Public Health Perspective  
Irshad Sulaiman, FDA, SE Regional Lab
- 9:45-10:10** The Use of PCR-Mass Spectrometry for Board Surveillance of Bacteria, Viruses and Fungi  
Greg Eppink and Michael Palm, PhD, Abbott Molecular
- 10:10-10:45** **BREAK ---Cash Drawing and Door Prizes (Foyer)**  
**Visit Exhibitor Booths** Peachtree Ballroom
- 10:45-11:10** Modeling the A. flavis Infection and Aflatoxin Accumulation Resistance in Maize Rachis  
Olga Pechanova, Mississippi State University
- 11:10-11:35** Rapid Detection of Pathogenic Bacteria Using Bacteriophage Amplification Coupled with Mass Spectrometry  
John Rees, CDC
- 11:35 -12:00** Microbial Flora of the Giant Panda (Ailuropoda melanolruca) Digestive Tract  
Candace Williams, Mississippi State University
- 12:00-1:30** **LUNCH BREAK ---Cash Drawing and Door Prizes**  
**Visit Exhibitor Booths** Peachtree Ballroom



## Tuesday, April 20

### Microbiology Presentations

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

**Moderator:** Val Suktankar

- 1:30-1:55** Rapid, Sensitive, and Quantitative MALDI-TOF MS Activity Assay for Anthrax Lethal Factor: Validation and Verification via LC-MS/MS  
Maribel Gallegos-Candela, CDC
- 1:55-2:20** Anthrax Lethal Toxin Quantification: Importance for Diagnosis, Patient Management, and Efficacy of Therapeutic Interventions  
Anne Elizabeth Boyer, CDC
- 2:20-2:45** **BREAK—Cash Drawing and Door Prizes (Foyer)**
- 2:45-3:10** Using Mass Spectrometry to Speed Up the Production of Influenza Vaccine and Ensure the Quality of the Final Product  
Carrie Pierce, CDC
- 3:10-4:00** Microbiology Round Table Discussion  
Lead by Val Suktankar, FDA

## Tuesday, April 20

### Chemistry Presentations

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

**Moderator:** Sherry Garris

- 8:30-8:55** Detection and Characterization of Volatile Compounds as a Response to Fall Armyworm  
Whitney Smith, Mississippi State University
- 8:55-9:20** Nanotrap Biomarker Discovery Platform: Enrich, Preserve, and Screen Low-Level Biomarkers  
Ben Figard, Shimadzu Scientific
- 9:20-9:45** Automated Extraction and Analysis of Antibiotics in Livestock Feed Using ASE/LC-MS/MS  
Andrew McDaniel, Mississippi State University
- 9:45-10:10** Determination of Mepiquat in Various Matrices by LC-MS/MS Using Isotope Dilution  
Molly Cumming, Tennessee Dept. of Agriculture
- 10:10-10:45** **BREAK---Cash Drawing and Door Prizes (Foyer)**  
**Visit Exhibitor Booths** Peachtree Ballroom
- 10:45-11:10** Exposing the Exposome  
Dana Barr, Emory University
- 11:10-11:35** Metal Impurities in Vitamins and Dietary Supplements  
Dan Jones, and Dave Bass, Ph.D., Perkin Elmer
- 11:35 -12:00** Analysis of Melamine and Cyanuric Acid in Milk Products  
William Brewer, University of South Carolina
- 12:00-1:30** **LUNCH BREAK---Cash Drawing and Door Prizes**  
**Visit Exhibitor Booths** Peachtree Ballroom

## Tuesday, April 20

### Chemistry Presentations

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

**Moderator:** Reuben Beverly

**1:30-1:55** Rapid LC-MS/MS Analysis of Aflatoxins from Corn and DDG's Utilizing Novel Column Technology  
Andrew McDaniel, Mississippi State University

**1:55-2:20** Updates on the Chemical Contaminants and Residues in the Food Community-Melamine Collaboration and Single Laboratory Validation Guidelines for Elemental Analysis  
Jo Marie Cook, Florida Dept. of Agriculture

**2:20-2:45** **BREAK---Cash Drawing and Door Prizes (Foyer)**

**Visit Exhibitor Booths** Peachtree Ballroom

**2:45-3:10** The Determination of Pesticide Degradation and Pesticide Metabolite Concentration in Raw and Processed Foods  
Samantha Radford, Emory University

**3:10-3:35** Detection and Quantification of Ricin in Complex Matrices by Mass Spectrometry  
Sara McGrath, CDC

**3:35-4:00** Automated On-line Column-switching LC-MS/MS Method for Measuring Trilocarban and Two Triclocarban Metabolites in Urine and Serum  
Sherry Ye, CDC

**4:00-4:25** Development of Passive Samplers to Measure Personal Exposure to Gaseous PAH's  
Xianyu Chen, Emory University

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

### **The 2010 recipient is Reuben Beverly**

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 for a minimum of 10 years.

Past recipients:

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

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## **Doug Hite Honorarium**

### **The recipient for 2010 is Wayne Ziemer**

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 hold or have held a leadership role in the Section, must have had an active role in the Section for a minimum of 10 years, and must be a member of the AOAC International Board of Directors or Official Methods Board.

Past recipients:

<b>2006 Doug Hite</b>
<b>2007 Anant Jain</b>
<b>2008 Jo Marie Cook</b>
<b>2009 Gayle Lancette</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>	

## AOAC Southern Section Officers 2009-2010

**Dana B. Barr** (President)

Research Professor, Department of  
Environmental and Occupational Health  
Rollins School of Public Health of Emory  
1518 Clifton Rd, NE, Room 272  
Atlanta, GA 30322  
Phone: (404)-727-9605  
Fax: (404) 727-8744  
dbbarr@emory.edu

**Jay Hardee** (Secretary)

Senior Account Representative  
Waters  
34 Maple Street  
Milford, MA 01757  
Phone: (770) 761-7791  
Fax: (770) 761-7792  
jay\_hardee@waters.com

**Joe Rainey** (President-Elect)

Director, North America  
Analytical Services  
Global Corporate Quality  
The Coca Cola Company  
One Coca Cola Plaza TEC 721  
Atlanta, GA 30301  
Phone: (404)-676-2853  
Fax: (404)-598-2853  
jorainey@na.ko.com

**Doug Hite** (Treasurer)

Director, Technical Services  
TN Department of Agriculture  
P.O.Box 40627, Melrose Sta.  
Nashville, TN 37204  
Phone: (615) 837-5317  
douglas.hite@tn.gov

**Anne P. Reid** (Imm. Past-Pres.)

Director for Nutrient Analysis  
FDA Southeast Regional Lab.  
60 8<sup>th</sup> Street, N.E.  
Atlanta, Ga 30309-3959  
Phone: (404) 253-2262  
Fax: (404) 253-1209  
anne.reid@fda.hhs.gov

## 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 Ried

**2009** Dana Barr

## AOAC Southern Section Executive Committee Members 2009-2010

### MEMBERS AT LARGE

#### M. Sher Ali

Staff Officer  
Lab. QA Division  
USDA / FSIS / OPHS  
950 College Station Rd  
Athens, GA 30605  
Phone: (706) 546-3489  
Fax: (706) 546-3453  
Sher.Ali@fsis.usda.gov

#### Joe Basile

Chemist III, Food & Drug Lab  
AL Dept. of Agriculture & Ind.  
1445 Federal Drive  
Montgomery, AL 36107  
Phone: (334) 240-7305  
Fax: (334) 240-7267  
Joseph.Basile@agi.alabama.gov

#### William E. Brewer

USC Chemistry Professor  
Chemistry Department  
631 Sumter St.  
Columbia, SC 29208  
Phone: (803) 622-9570  
Fax: (803) 777-9521  
brewer@mail.chem.sc.edu

#### Amy Brown

Environmental Manager  
Chemical Residue Laboratory  
Food Safety Division, DOACS  
3125 Conner Blvd. Lab 3  
Tallahassee, FL 32399  
Phone: (850) 617-7510  
Fax: (850) 922-9110  
brown@doacs.state.fl.us

#### Amit Chakrabarti

Supervisor, Chemical Residue Section  
TN Department of Agriculture  
P.O. Box 40627, Melrose Sta.  
Nashville, TN 37205-0627  
Phone: (615) 837-5134  
Fax: (615) 837-5516  
Amitabha.chakrabarti@tn.gov

#### Jo Marie Cook

Bureau Chief  
Chemical Residue Laboratory  
3125 Conner Blvd. Lab #3  
Tallahassee, FL 32399-1650  
Phone: (850) 488-9670  
Fax: (850) 922-9110  
cookj@doacs.state.fl.us

#### Chanin Craft

Chemist Residue Lab.  
SC Department of Agriculture  
1101 Williams St.  
Columbia, SC 29201  
Phone: (803) 737-9700  
Fax: (803) 737-9703  
ccraft@scda.sc.gov

#### Mike Farrow

Quality Assurance Mgr.  
Georgia Dept. of Agriculture  
P.O. Box 1507  
Tifton, GA 31793  
Phone: (229) 386-3143  
Fax: (229) 386-7227  
mfarrow@agr.state.ga.us

#### Sherry Garris

Supervisor Chemical Residue Lab  
SC Department of Agriculture  
1101 Williams St.  
Columbia, SC 29201  
Phone: (803) 737-9700  
Fax: (803) 737-9703  
sgarris@scda.sc.gov

#### Jay Hardee

Senior Account Representative  
Waters  
34 Maple Street  
Milford, MA 01757  
Phone: (770) 761-7791  
Fax: (770) 761-7792  
jay\_hardee@waters.com

#### William Holmes

Director of Mass Spectrometry  
MS State Chemical Lab  
P.O. Box CR  
Mississippi State, MS 39762  
Phone: (662) 325-3324  
Fax: (662) 325-7807  
wholmes@ra.msstate.edu

#### Jim C. Jones

Microbiologist  
USDA / FSIS / OPHS / EL  
950 College Station Rd. Suite PB-23  
Athens, GA 30605-2720  
Phone: (706) 546-3563  
Fax: (706) 546-3518  
Jim.Jones@fsis.usda.gov

**Roger McDaniel**

State Chemist/Laboratory Director  
Food & Drug Protection Division  
NC Dept. of Ag. & Consumer Services  
1070 Mail Service Center  
Raleigh, NC 27699  
Phone:(919) 733-7366  
Fax: (733) 733-6801  
roger.mcdaniel@ncmail.net

**Jim McGuire**

Chemical Branch Mgr.  
TN Department of Agriculture  
P.O. Box 40627, Melrose Sta.  
Nashville, TN 37204-0627  
Phone: (615) 837-5337  
Fax: (615) 837-5516  
James.mcguire@tn.gov

**James H. Scott**

Consultant  
Scott Consulting Services  
1751 Cumberland Trace  
Acworth, GA 30102  
Phone: (770) 928-4089  
Fax: (770) 928-0765  
scottscs@ix.netcom.com

**Val Suktankar**

Supervisory Microbiologist  
FDA Southeast Regional Lab.  
60 8th Street, N.E.  
Atlanta, GA 30309-3959  
Phone: (404) 253-2262  
Fax: (404) 253-1209  
val.suktankar@fda.hhs.gov

**George Ware**

Research Scientist  
FDA Southeast Reg. Lab.  
60 8th St., N.E.  
Atlanta, GA 30309-3959  
Phone: (404) 253-2249  
Fax: (404) 253-1209  
gware@ora.fda.gov

**Ronald Willett**

Pesticide Supervisor  
NC Dept. of Ag. & Consumer Services  
1070 Mail Service Center  
Raleigh, NC 27699-1070  
Phone: (919) 733-7366  
Fax: (919) 733-6801  
ronald.willett@ncmail.net

## 2010 Southern Section AOAC Speakers

<b>Mickey Anderson</b> FDA <a href="mailto:mickey.anderson@fda.hhs.gov">mickey.anderson@fda.hhs.gov</a>	<b>James Jones</b> USDA/FSIS <a href="mailto:Jim.Jones@fsis.usda.gov">Jim.Jones@fsis.usda.gov</a>
<b>Darwin Asa</b> Bruker Daltonics <a href="mailto:Darwin.asa@bdal.com">Darwin.asa@bdal.com</a>	<b>Suzu Kalb</b> CDC/NCEH <a href="mailto:ssk7@cdc.gov">ssk7@cdc.gov</a>
<b>Dana Barr</b> Emory University <a href="mailto:dbbar@emory.edu">dbbar@emory.edu</a>	<b>Kayoko Kato</b> CDC/NCEH <a href="mailto:ktk2@cdc.gov">ktk2@cdc.gov</a>
<b>John Barr</b> CDC/NCEH <a href="mailto:jbarr@cdc.gov">jbarr@cdc.gov</a>	<b>Jeff Keever</b> Agilent Technologies <a href="mailto:Jeff_keever@agilent.com">Jeff_keever@agilent.com</a>
<b>Dave Bass</b> Perkin Elmer <a href="mailto:John.bass@perkinelmer.com">John.bass@perkinelmer.com</a>	<b>Glenn Magley</b> MKC <a href="mailto:glenn@mkcenterprises.com">glenn@mkcenterprises.com</a>
<b>Mark Benvenuti</b> Waters Corporation <a href="mailto:mark_benvenuti@waters.com">mark_benvenuti@waters.com</a>	<b>Mason Marsh</b> LECO <a href="mailto:Mason_marsh@leco.com">Mason_marsh@leco.com</a>
<b>Debarati Bhattacharya</b> EMD <a href="mailto:debarati.bhattacharya@emdchemicals.com">debarati.bhattacharya@emdchemicals.com</a>	<b>Susan Maslanka</b> CDC/NCZVED <a href="mailto:SHT5@cdc.gov">SHT5@cdc.gov</a>
<b>Anne Elizabeth Boyer</b> CDC <a href="mailto:aboyer@cdc.gov">aboyer@cdc.gov</a>	<b>Andrew McDaniel</b> Mississippi State Univ <a href="mailto:asm78@msstate.edu">asm78@msstate.edu</a>
<b>William Brewer</b> Univ of South Carolina <a href="mailto:brewer@mail.chem.sc.edu">brewer@mail.chem.sc.edu</a>	<b>Sara McGrath</b> CDC <a href="mailto:SMcGrath@cdc.gov">SMcGrath@cdc.gov</a>
<b>Maribel Gallegos-Candela</b> CDC <a href="mailto:Mgallegos1@cdc.gov">Mgallegos1@cdc.gov</a>	<b>Angela Montesano,</b> CDC/NCEH <a href="mailto:ahm2@cdc.gov">ahm2@cdc.gov</a>
<b>Xianyu Chen</b> Emory Univ <a href="mailto:xchen37@emory.edu">xchen37@emory.edu</a>	<b>Jacquelin Page</b> Page & Pedersen <a href="mailto:jackiep@pagepedersen.com">jackiep@pagepedersen.com</a>
<b>Jo Marie Cook</b> Florida. Dept of Agriculture <a href="mailto:cookj@doacs.state.fl.us">cookj@doacs.state.fl.us</a>	<b>Edward Pfannkoch</b> Gerstel <a href="mailto:eapfannkoch@gerstelus.com">eapfannkoch@gerstelus.com</a>
<b>Molly Cumming</b> Tennessee. Dept. of Agriculture <a href="mailto:mary.cumming@tn.gov">mary.cumming@tn.gov</a>	<b>Carrie Pierce</b> CDC <a href="mailto:CPierce@cdc.gov">CPierce@cdc.gov</a>
<b>Richard Earley</b> Waters Corporation <a href="mailto:Richard_earley@waters.com">Richard_earley@waters.com</a>	<b>Samantha Radford</b> Emory Univ <a href="mailto:sadkin2@emory.edu">sadkin2@emory.edu</a>
<b>Greg Eppink</b> Abbott Molecular <a href="mailto:gregory.eppink@abbott.com">gregory.eppink@abbott.com</a>	<b>Brian Raphael,</b> CDC/NCZVED <a href="mailto:ELX9@cdc.gov">ELX9@cdc.gov</a>
	<b>Olga Pechanova</b> Mississippi State Univ <a href="mailto:op2@ra.msstate.edu">op2@ra.msstate.edu</a>



**Elena Gairloch**  
Biotage  
[elena.gairloch@biotage.com](mailto:elena.gairloch@biotage.com)

**Eric Phillips**  
Thermo Scientific  
[eric.phillips@thermofisher.com](mailto:eric.phillips@thermofisher.com)

**Mike Halvorson**  
Gilson  
[mhalvorson@gilson.com](mailto:mhalvorson@gilson.com)

**Wendy Rasmussen**  
Pickering Laboratories  
[wasmussen@pickeringlabs.com](mailto:wasmussen@pickeringlabs.com)

**Dan Jones**  
Perkin Elmer  
[Daniel.Jones@perkinelmer.com](mailto:Daniel.Jones@perkinelmer.com)

**John Rees**  
CDC  
[JRees@cdc.gov](mailto:JRees@cdc.gov)

**Greg Richmond**  
Agilent  
[Greg.richmond@agilent.com](mailto:Greg.richmond@agilent.com)

**Laszlo Torma**  
Pickering Laboratories  
[laszlo@pickeringlabs.com](mailto:laszlo@pickeringlabs.com)

**Whitney Smith**  
Mississippi State Univ  
[wec74@msstate.edu](mailto:wec74@msstate.edu)

**Michael Vickery**  
BioGX  
[michael.vickery@biogx.com](mailto:michael.vickery@biogx.com)

**Jeffery Strain**  
Applied Biosystems  
[jeffrey.strain@lifetech.com](mailto:jeffrey.strain@lifetech.com)

**Ralph D. Whitehead, Jr.**  
CDC/NCEH  
[rnw2@cdc.gov](mailto:rnw2@cdc.gov)

**Jack Stuff**  
Gerstel  
[jrstuff@gerstelus.com](mailto:jrstuff@gerstelus.com)

**Candace Williams**  
Mississippi State Univ  
[clw224@msstate.edu](mailto:clw224@msstate.edu)

**Irshad Sulaiman**  
FDA  
[IRSHAD.SULAIMAN@FDA.HHS.GOV](mailto:IRSHAD.SULAIMAN@FDA.HHS.GOV)

**Tracie Williams,**  
CDC/NCEH  
[enn8@cdc.gov](mailto:enn8@cdc.gov)

**TBD**  
TBD  
TBD

**Phil Wylie**  
Agilent  
[Phil.wylie@agilent.com](mailto:Phil.wylie@agilent.com)

**Bruce Thompson**  
Gilson  
[bthompson@gilson.com](mailto:bthompson@gilson.com)

**Sherry Ye**  
CDC/NCEH  
[xay5@cdc.gov](mailto:xay5@cdc.gov)

**Ben Figard**  
Shimadzu  
[bfigard@shimadzu.com](mailto:bfigard@shimadzu.com)

**Dr. Michael Palm**  
Abbott Molecular  
[michael.palm@abbott.com](mailto:michael.palm@abbott.com)

# Lobby Level

