



## PRELIMINARY PROGRAM

**Southern Section  
AOAC INTERNATIONAL  
34<sup>th</sup> Annual Meeting  
April 13-15, 2020**

**Hilton Garden Inn Buckhead  
Atlanta, Georgia**

***To register go to:  
[www.ssaoac.com](http://www.ssaoac.com)***



**Tuesday-April 14<sup>th</sup>**

**AOAC International Update**

David B. Schmidt, Executive Director  
AOAC INTERNATIONAL

**Vendor Luncheon Technical Training Workshops**

**Tuesday-April 14<sup>th</sup>**

**“Navigating the Cannabis Matrix: Potency Analysis”**

Sue D’Antonio  
Agilent Technologies

**Wednesday-April 15<sup>th</sup>**

**TBA**

ThermoFisher Scientific

**TBA**

Waters

*Luncheon Technical Training include lunch for a limited number of attendees.  
Sign up at the registration desk Tuesday and Wednesday morning.*

**Vendor Technical Training Workshops-Tuesday-April 14<sup>th</sup>**

**“A Simple and Sensitive Method for Rapid Determination of PFOA and PFOS in Water Samples by Direct Injection UHPLCMSMS”**

Jason Weisenseel  
Perkin Elmer

**“TBA”**

SCIEX

**“TBA”**

Shimadazu



**Tuesday-April 14<sup>th</sup>**

**Southern Section Reception**

In appreciation of your continued support of analytical sciences and the Southern Section of AOAC International, and especially for your attendance at our 2019 Annual Meeting please attend the Evening Reception. 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 vendors.

**Meeting Location!**

The Hilton Garden Inn is located in the heart of Buckhead, only 25 minutes from Hartsfield Jackson International Airport and 10 minutes from downtown Atlanta. Often called the “Beverly Hills of the East”, Buckhead has the best restaurants, shopping, and entertainment in the Southeast.

To register for this exciting meeting go to **[www.ssaovac.com](http://www.ssaovac.com)**

**MEMBERS**

\$65 Pre-registered  
\$85 Onsite

**NON-MEMBERS**

\$70 Pre-registered  
\$90 Onsite

**FULL TIME STUDENTS ARE FREE!!!!**

*Thanks to the support of our Vendor Partners, this low registration fee includes all breaks and the Southern Section Reception.*

**Register using any major credit card or by check.**



**Wednesday-April 15<sup>th</sup>**

## **Chemistry Presentations**

### **Enhancing the Viability of Probiotic Bacteria after Microencapsulation by Spray Drying using Ultra-High-Pressure Homogenization**

Kevin Mis Solval

Department of Food Science and Technology, UGA

### **The Long and Short of it: Characterization of Intermediate Wheatgrass, a Perennial Grain with Sustainability Benefits Functional and Nutritional Food**

Catrin Tyl

Department of Food Science and Technology

UGA

### **An Overview of Alabama Department of Agriculture and Industries' Hemp Pilot Program**

Molly Godwin, Martha Chinakwe, Emily Morgan, and Zach Sealy  
Alabama Dept Agriculture

### **Near Infra-Red Spectroscopic (NIRS) Feed and Forage Analysis at the Agricultural and Environmental Services Laboratories, University of Georgia: Program Overview and Quality Assurance**

Uttam K. Saha

UGA

### **The Identification of Unknowns in Mixtures by LC/MS, LC/FTIR and GC/MS**

Teresa Peterson, Kimberly Clark, Wade Thompson, Kimberly Clark

Rick Borders retired Kimberly Clark

Tracy Phillpott, Spectra Analysis Instruments

Fred Stroebel, Emory University



Wednesday-April 15<sup>th</sup>

**Chemistry Presentations (continued)**

**Laboratory Gas Operation Costs: Helium's Ballooning Price**

Matthew Crawford and William Holmes

Department of Chemical Engineering, Energy Institute of Louisiana,  
University of Louisiana at Lafayette

**Solubility-Based Extraction of Biosolid Proteins for SEC  
Characterization**

Lauren Prudhomme, Alexandra Arcement, William Holmes

Department of Chemical Engineering, Department of Chemistry  
Energy Institute of Louisiana  
University of Louisiana at Lafayette

**Untargeted Metabolomics: New Strategies for Identifying Metabolic  
Changes in E. coli using Ion Mobility Spectrometry-Mass  
Spectrometry**

James Dodds

North Carolina State University

**The Filth Program at the Southeast Food and Feed Laboratory: What  
you Really Ate Today**

David Malakauskas

FDA



**Wednesday-April 15<sup>th</sup>**

**Microbiology Presentations**

**Application of Ribosomal Internal Transcribed Spacer 1, Internal Transcribed Spacer 2, and Large-Subunit D1-D2 Regions as the Genetic Markers to Identify Fungi Isolated from Diverse Environmental Samples: A Molecular Surveillance Study of Public Health Importance**

Irshad Sulaiman

Southeast Regional Laboratory, U.S. Food and Drug Administration

**Amplification-Free, Nucleic Acid-Based Bacterial Pathogen Detection**

Hal Monbouquette

UCLA

**An Overview of Animal Cell Culture Technology as a Platform to Produce Food**

Paul Modziak

North Carolina State University

**Validating the Thermal Resistance of Salmonella During Poultry Litter Processing**

Xiuping Jiang

Clemson University

**Leveraging Sequencing Technologies to Discern Salmonella Serovar Populations**

Nikki Shariat

UGA



Wednesday-April 15<sup>th</sup>

**Microbiology Presentations (continued)**

**Norovirus Recombinant Circulating in the US Uncovered by Dual Polymerase and Capsid Typing**

Jennifer Cannon  
CDC

**Quantifying Norovirus Contamination of Fresh Produce and the Impact of Farmworker Hygiene during Simulated Agriculture Harvest and Packing Processes – A QMRA approach**

Julia Soboli  
Emory University

**Vibriosis Trends in the United States, 2007-2018**

Emily Jenkins  
CDC

**50 Pounds of Crawfish Later...An Outbreak of *Vibrio parahaemolyticus***

Hope Dishman/Colby Brown  
Georgia Dept of Health/Georgia Dept of Agriculture

**Diesel Flash Point Reduction and Microbial Induced Corrosion due to Contamination**

David Au  
GA Dept AG



**Tuesday & Wednesday-April 14-15<sup>th</sup>**

**Poster Presentations**

**Mechanism of Resistance to ACCase-inhibiting Herbicides in Southern Crabgrass**

Suma Basak, J. Scott McElroy, and Mark R. Lies  
Auburn University

**Theoretical Analysis of Viability of Isopropanol-Cyclohexane Solvent System for Biomatter Lipid Extraction**

Kyle Zappi and Emmanuel Revellame  
Energy Institute of Louisiana, University of Louisiana, Lafayette, LA

**Application of AR Enrichment Medium for the Isolation of Cronobacter spp. from Food**

Nancy Miranda, Steven Simpson and Irshad M. Sulaiman  
Southeast Regional Laboratory  
U.S. Food and Drug Administration

**Carbon Dioxide Removal and Oxygen Replenishment While Producing Protein within a Mars Human Space Camp**

Alex Zappi, Sarah Simoneaux, Remil Martinez Aguda  
and Emmanuel Revellame  
Energy Institute of Louisiana, University of Louisiana, Lafayette, LA





**Tuesday & Wednesday-April 14-15<sup>th</sup>**

**Poster Presentations(continued)**

**Applications of 3D Printing in the Research Laboratories**

Hayden Hulin and William Holmes Department of Mechanical Engineering  
Energy Institute of Louisiana  
University of Louisiana at Lafayette

**Comparison of Different Methodologies for Rapid GC/MS Analysis of  
Volatile Organic Acids in Fermentation Media**

Elizabeth Boyd and William Holmes  
Department of Chemical Engineering  
Energy Institute of Louisiana  
University of Louisiana at Lafayette

**Validation Results of High-Throughput LC-MS/MS Method Five Folate  
Vitamer and Oxidation Product in Washed Red Blood Cell Lysates**

Neelima Paladugula  
CDC



**Tuesday & Wednesday-April 14-15<sup>th</sup>**

## **Poster Presentations(continued)**

### **The Vitamin B12 Microbiologic Assay shows Potential as a Companion Assay to the Folate Microbiologic Assay in Low-resource Laboratories**

Christina Fischer, Mindy Zhang, and Christine M Pfeiffer  
CDC

### **Folate Concentration in RBC Lysates showed Acceptable Stability for up to 1 Year when Stored Frozen at -70°C**

Shameem Jabbar, Mindy Zhang, Neelima Paladugula, Zia Fazili, and  
Christine M Pfeiffer  
CDC

### **Anaerobic Digestion of Wastewater for Producing Life Support Resources Within a Mars-Based Space Camp**

Eugenia A. Ndieze, Bimi Shrestha, Mark E. Zappi, Rafael Hernandez, Dhan Lord Fortela, Wayne Sharp, Andrei Chistoserdov, Daniel Gang, Emmanuel Revellame and William Holmes  
Energy Institute of Louisiana and University of Louisiana



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