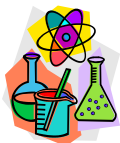


PRELIMINARY PROGRAM

**Southern Section
AOAC INTERNATIONAL
36th Annual Conference
April 18-19, 2023**

**Marriott Hotel
Northeast/ Emory Area
Atlanta, Georgia**

To register go to:
www.ssaovac.org



Tuesday-April 18th

Topic Presentations

“AOAC International Update”

Erin S. Crowley
Chief Scientific Officer
Q Laboratories-Cincinnati, Ohio

**“Methods Validation: A Comparison of AOAC, FDA and ISO
Protocols”**

Thomas Hammack, Senior Policy Analyst
Division of Microbiology, Office of Regulatory Science
Center for Food Safety and Applied Nutrition, Washington, DC

**“Challenges in Analytical Testing Observed in Various Cannabis
Matrix Types”**

Alexandra Tudor, Director of Business Development
TEQ Laboratories, Denver, Colorado

Vendor Luncheon Technical Training Workshops

Tuesday-April 18th
Thermo Fisher Scientific
Agilent Technologies

Wednesday-April 19st

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 Workshop-Tuesday-April 18th

Taking a Non-linear Path to Solving our Problems: One Second Gas-Phase Separations with High-Resolution Ion Mobility

Frederick G. Strathmann, PhD, MBA
Senior VP of Applied and Clinical Business, Mobillion Systems

Direct Quantification: A Paradigm Shift In Salmonella Enumeration

John Mills, Staff Scientist, Industry Affairs
BioMerieux

Hot Topics in Heavy Metals Testing in Food

Jenny Nelson, PhD Application Scientist Agilent Technologies
Adjunct Professor UC Davis
and

Advances in Food PFAS Analysis

Stephan Baumann, Technical Marketing Manager, Global Applied Markets,
Agilent Technologies

Cannabis Testing

Matthew Sica, Program Manager
Perry Johnson Laboratory Accreditation, Inc.

Technical Workshop (Title TBA)

Perkin Elmer



Tuesday-April 18th

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 2023 Annual Conference please attend the Evening Reception. Please relax and enjoy complimentary drinks and heavy appetizers while catching up with colleagues and old friends and networking with fellow scientists, administrators, and vendors.

To register for this exciting meeting go to www.ssaoac.org

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, technical training workshops, all breaks, and the Southern Section Reception.

Register using any major credit card or by check



Wednesday-April 19th Chemistry Presentations

E-tongue, E-nose, and Sensory Research

Sungeun Cho, Ph.D., Assistant Professor - Food Science
Department of Poultry Science
Auburn University

The Analysis of Pesticides in Cannabis Using Triple Quadrupole Mass Spectrometry

Adam Floyd,
Co-Founder Cascade Laboratory Consulting
Bend, Oregon

Application of Nanomaterials in Food and Agriculture

Ramaraja P. Ramasamy, Ph.D.
Associate Dean (Academic Affairs), College of Engineering
Professor, Chemical, Materials & Biomedical Engineering
Director, Nano Electrochemistry Research Laboratory
University of Georgia

Updates on Methodology for Establishing Standards for Color Additives from Natural Sources

Bhakti Petigara Harp, Ph.D.
Research Chemist
FDA, College Park Maryland

Improved Techniques for Residual Solvent Analysis in Cannabis Extracts and Infused Products to Meet and Exceed State Regulatory Requirements

Roy Sorensen, Laboratory Director
Method Testing Labs

Adulterants in Dietary Supplements

Grace Bandong
Business Unit Manager, Contaminants, and Inorganics
Eurofins Food Chemistry Testing Madison, Inc, Madison, WI



Wednesday-April 19th Chemistry Presentations (Continued)

Cannabis Compliance Testing: Abundant issues exist so why do we still do it?

Stephen Goldman, PhD
Chief Science Officer
Kaycha Labs

The Laboratories Role in A Criminal Investigation

Mike Weyman
Deputy Director, Regulatory Services
Clemson University

The Pesticide Data Program 1991-2021: 30 years of Residue Data and Trends

Jessica Murillo and Amy Gaines
Agricultural Marketing Service
USDA

Determination of Urolithin Related Metabolites in Human Plasma by LC-MS Analysis – Potential Biomarkers for Pecan Consumption

Min Jeong Kang
Department of Food Science & Technology
University of Georgia

The Chemistry Behind Soil Testing at Clemson University's Agricultural Service Laboratory

Shannon Alford
Director, Agricultural Service Laboratory
Clemson University

Characterization and Performance of Metal-Oxide/Aluminum Silicates Catalysts to Remove Methyl Mercaptan from Natural Gas

Gerson Martinez Zuniga, Rafael Hernández
Mark Zappi and William Holmes
Energy Institute, University of Louisiana
Lafayette, Louisiana



Wednesday-April 19th **Microbiology Presentations**

Riding Shotgun: Accelerating Food Safety Improvements with Whole Genome and Metagenomic Sequencing

Darryll Barkhouse
Invisible Sentinel

Optimal Dilution of Polysorbate (Tween) 20 for the Determination of Enterobacteria and Total Yeast and Mold on Cannabis Concentrate

Anthony Repay
Laboratory Director
Method Testing Laboratories

Re-visiting the Viable but Not-Culturable Concept in Food Safety Diagnostics

Pratik Banerjee, PhD
Associate Professor of Food Safety, Department of Food Science and Human Nutrition, University of Illinois at Urbana

Driving Diagnostic Innovation-the Intersection of Genomics and Assay Development

Adam Joelsson
Director of R&D, Invisible Sentinel

Analysis in Support of Cronobacter Contamination of Powdered Infant Formula in the USA

Kevin Karem
Director of the Atlanta FDA-SRL



Wednesday-April 19th
Microbiology Presentations (Continued)

**Method for Rapid Onsite Identification of Commercially Important
Seafood Species**

Prashant Singh, PhD
Assistant Professor, Nutrition, Food & Exercise Sciences
Florida State University

Avian Influenza: The Other Pandemic
Doug Waltman and Dr. Louise Dufour-Zavala
Georgia Poultry Laboratory

**Application of Fungal DNA Barcoding in Food Safety and
Environmental Surveillance of Public Health Importance**

Irshad Sulaiman, MSc, MPhil, PhD
Research Microbiologist, FDA

**Adoption of a New Bacterial Confirmation System for NARMS Cecal
Program**

Andrew Hudgens, MPH
Microbiology Characterization Branch, FSIS, USDA

Food-borne Outbreaks of Hepatitis A
Sumathi Ramachandran, MS, MPH, PhD
CDC

**Characterization of *Salmonella enterica* from Informal Markets in
Cambodia**

Carla Schwan
University of Georgia

FDA Laboratory Flexible Funding Model

Stacie Hammack
FDA



Tuesday & Wednesday-April 18-19th
Poster Presentations

Single-laboratory Validation Study of a Method for Rapid Screening of *Cronobacter sakazakii* and Related Species using VITEK MS System

Irshad M. Sulaiman, MSc, MPhil, PhD,
Research Microbiologist, FDA

PFAS Dark Matter and Slippery Cannabis: Disparate Problems with a Similar Path to a Solution

Frederick G. Strathmann, Rachel A. Harris, Joshua K. McBee, Thomas G. Lubinsky, Julie A. Wushensky, Heidi Vitrac
MOBILion Systems, Inc.

Evaluation of AI-Holy-Rasco (AR) Enrichment Broth for the Recovery of *Cronobacter* spp. from Various Sources

Irshad M. Sulaiman, MSc, MPhil, PhD
Research Microbiologist, FDA

Adsorption of Organic Pollutants onto Microplastics

Kirstin Goff
Kennesaw State University

Detection of Metals and Minerals in Sweet Potatoes & Soils by ICP-MS

Darren Nakamura, Ashley Meredith, John Williams, Erika Womack
Mississippi State Chemical Laboratory



Tuesday & Wednesday-April 18-19th Poster Presentations

Evaluation of AI-Holy-Rasco (AR) Enrichment Broth for the Recovery of *Cronobacter* spp. from Various Sources

Nancy Miranda, Joseph Mendoza, Steven Simpson, Kevin Karem, and
Irshad M. Sulaiman
FDA, Southeast Food and Feed Laboratory

Determination of Glyphosate by LC-MS/MS
Julie Toler, Ashley Meredith, Erika Womack
Mississippi State Chemical Laboratory

Analysis of Trimethylamine N-oxide Metabolites in Rodent Serum as Potential Biomarkers for Pregnancy and Diabetes: a Case Study

Namhee Lee
Department of Food Science & Technology
University of Georgia

Auditing Your Laboratory to ISO/IEC 17025:2017: Improvements Can Be Found in Findings

Monica Haque, Dongping Jiang, Erika Womack
Mississippi State Chemical Laboratory

Determination of Urolithin Related Metabolites in Human Plasma by LC-MS Analysis – Potential Biomarkers for Pecan Consumption

Min Jeong Kang
Department of Food Science & Technology
University of Georgia



Tuesday & Wednesday-April 18-19th
Poster Presentations

Investigation Into Usage of Invasive Plant Giant salvinia (*Salvinia molesta*)

for Production of Value-Added Products

Ava G. Welch¹²; William E. Holmes¹²; and Mark E. Zappi¹²
Energy Institute of Louisiana¹; Department of Chemical Engineering²;
University of Louisiana at Lafayette, Lafayette, LA

**Investigating Chemical Oxidation for Remediation of Emerging
Groundwater Contaminant 1,4-Dioxane**

Karlie C. Dufrene; Serenity A. Broussard; William E. Holmes; Mark E. Zappi
Energy Institute of Louisiana and Department of Chemical Engineering,
University of Louisiana, Lafayette, LA

**Chemical Analysis Utilizing Inductively Coupled Plasma-Optical
Emission Spectrometry for Performance of the
Capture of Lithium from Process Waters Using H₂TiO₃ Adsorbent**

Cade M. Hontiveros^{1,2}; David J. Shoemaker^{1,2}; Daniel D. Gang^{1,3}; Mark E.
Zappi^{1,2}

Energy Institute of Louisiana¹; Department of Chemical Engineering²;
Department of Civil Engineering³; University of Louisiana at Lafayette, LA

**Evaluation of the Efficacy of Different Organic Acids Against Major
Foodborne Bacterial Pathogens on Poultry Meat and Lettuce**

Nivin Nasser, Issmat I. Kassem
Center for Food Safety, University of Georgia



Tuesday & Wednesday-April 18-19th
Poster Presentations

Investigating the Persistence of Infectious Human Norovirus on Lettuce and in Natural Surface Freshwater using Human Intestinal Enteroids

Narwankar R¹

Kassem II¹, Costantini VP², Vinjé J², and Esseili MA¹

¹ Center for Food Safety, University of Georgia, ² Division of Viral Diseases, Centers for Disease Control and Prevention

Efficacy of Peracetic acid and Sodium Hypochlorite against SARS-CoV-2 on Contaminated Surfaces

Morris, J. N. Co-Authors: Esseili, M.A

Center for Food Safety, University of Georgia

Persistence of Infectious Human Norovirus Surrogate in Berry Smoothies and during Simulated Gastrointestinal Digestion

Riya Hooda Co- Authors: Malak A. Esseili

Center for Food Safety, University of Georgia

Impact of Surface Color on the Efficacy of Antimicrobial Blue Light Against *L. Monocytogenes*

Krishna Prabha, Govindaraj Dev Kumar and Francisco Diez

Center for Food Safety

University of Georgia

The Mobile Colistin Resistance Gene (*mcr-9.1*) is Carried by Different Bacterial Species Isolated from Environmental and Imported Seafood Samples in Georgia

Jouman Hassan; Malak A. Esseili; Tongzhou Xu; David Mann; Xiangyu

Deng; Issmat I. Kassem

Center for Food Safety, University of Georgia



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Please Note: for 2024

**The 37th Annual Conference of the Southern
Section
AOAC International
will be held in
Atlanta, GA
April 16-17, 2024**

Proposed 2024 Conference Topics:

General:

Nanotechnology
Virtual Reality and Laboratory Training
Merging of Artificial Intelligence and the Analytical Sciences

Chemistry:

Biotechnology, Energy Innovations and Nutraceuticals
New Technologies & Methodology
Cannabis, Toxins, Food, Environmental Contaminants, Heavy Metals
LC-MS/MS and GC-MS/MS

Microbiology:

Biotechnology and Nutraceuticals
Emerging Technologies and the Analysis of Food Borne Pathogens
MALDI-TOF Mass Spectrometry
PCR, Mass Spectrometry, Rapid testing

