

2022 NACRW Program

As of 7-14-22 (all times listed are Eastern Daylight Time)

Monday, July 25, 2022

- 9:00-9:05 am **Welcome Remarks: Sherry Garris**, Chair, FLAG Works, Inc./NACRW
- 9:10-9:20 am **Speed Networking**
- 9:30-10:30 am **RESTEK Vendor Technology Presentation**
Novel Approaches for Optimizing Workflows for Multiresidue Pesticides and Mycotoxins
Nathaly Reyes-Garcés, Ph.D., Scientist III, LC Solutions-Applications, Restek, and **Jana Hepner**, Ph.D., Senior Scientist I, GC Solutions-Applications, Restek, Bellefonte, PA; USA
- 10:45 am-12:15 pm **NACRW Veterinary Drugs Working Group**
- 10:45-11:05 am **Maiwenn Le Floch**, ANSES, Javené; France
VD-01
Progress of the VDR Collaborative Study
- 11:05-11:25 am **Steven Lehotay**, USDA Agricultural Research Service, Wyndmoor, PA; USA
VD-02
Stability of Veterinary Drugs
- 11:25-11:45 am **Eric Verdon**, ANSES, Fougères, France
VD-03
Insights into the new EU Implementing Regulation for Analytical Methods Performance for Veterinary Drug Residue Official Control in Food: CIR (EU) 2021/808
- 11:45 am-12:15 pm **Sherri Turnipseed**, USFDA-Animal Drugs Research Center, Denver, CO; USA
Open Forum: Question and Answer Session for NACRW Veterinary Drugs Working Group
- 12:45-1:45 pm **ThermoFisher Scientific Technology Presentation**
Implementing new GC-MS technology to stay ahead with your pesticides analysis
Adam Ladak, Product Marketing Manager, GC Quadrupole MS, Thermo Fisher Scientific; Hemel Hempstead; UK; Adam.Ladak@thermofisher.com
- 2:00-4:00 pm **NACRW Reference Materials Working Group**
- 2:00-2:20 pm **Patricia Atkins**, Spex, An Antylia Scientific Company, Metuchen, NJ; USA
RM-01
Increasing the Scope of the Reference Materials Use in Trace Analysis: Highlights for the Second Edition
- 2:20-2:40 pm **Kevin Kubachka**, US FDA - Forensic Chemistry Center, Cincinnati, OH; USA
RM-02
Addition of Inorganic Guidance to the Reference Material Use in Trace Analysis Manual
- 2:40-3:00 pm **Sidney Sudberg**, Alkemist Labs, Garden Grove, CA; USA
RM-03
Use of Reference Materials, for the Authentication of Natural Products, Botanicals, and Other Agricultural Materials
- 3:00-3:20 pm **Joe Konschnik**, Restek Corporation, Bellefonte, PA; USA
RM-04
Botanicals & Dietary Supplements Collaboration Opportunities
- 3:20-4:00 pm **Jo Marie Cook**, Florida Department of Agriculture and Consumer Services, Venice, FL; USA; and **Patricia Atkins**, Spex, An Antylia Scientific Company, Metuchen, NJ; USA
Open Forum: Question and Answer Session for NACRW Reference Materials Working Group

Tuesday, July 26, 2022

9:00-9:10 am **Opening Remarks**
Alexandria Bush, President, 2022 NACRW Organizing Committee

9:10-10:10 am **Poster Session Presentations – (up to 5 posters)**
(5-minute videos and presenters provide contact info for Q and A follow-up)

10:15 am-12:05 pm **SESSION 1:** sponsored by **ThermoFisher**
SCIENTIFIC
MS-based screening, quantitation and identification techniques for chemical contaminants analysis in food
Co-Chairs: Jian Wang and Amadeo R. Fernández-Alba

10:15 -10:20 pm **Session Sponsor Recognition – Thermo Fisher**


10:20-10:40 am **Jon Wong**, US FDA, College Park, MD; USA
O-01 **Evaluation of a non-Target Data Acquisition for Target Analysis (nDATA) Workflow for Analysis of 1200 Pesticides in Fresh Produce using Liquid Chromatography-High Resolution Accurate Mass Spectrometry with a Compound Database**

10:40-11:00 am **Yufang Zheng**, National Institute Of Standards And Technology, Gaithersburg, MD; USA
O-02 **Enhancing the Coverage and Quality of Spectra of Pesticides in a Comprehensive Electron Ionization (EI) Mass Spectral Library**

11:00-11:20 am **Amadeo Fernández-Alba**, EURL-FV University of Almería, La Cañada de San Urbano, Almería; Spain
O-03 **Analysis of high polar pesticides in fruits and vegetables by various chromatographic approaches- A critical evaluation**

11:20-11:40 pm **Alexander Semyonov**, Thermo Fisher Scientific, Austin, TX; USA
O-04 **Cationic polar pesticides in food and beverage commodities by IC-MS/MS**

11:40– 12:05 pm **Live Q&A for Session 1**

12:30-1:30 pm  **Agilent Technology Presentation**
Enabling a Fast and Robust GC/MS/MS Pesticide Analysis with Helium and Hydrogen Carrier Gasses
Anastasia Andrianova, GC/MS Applications Scientist, Agilent Technologies; Wilmington, DE; USA; anastasia.andrianova@agilent.com

2:00-4:05 pm **SESSION 2:** sponsored by **RESTEK**
Advances in sample prep
Co-Chairs: Sareeta Nerkar and Jana Hepner

2:00-2:05 pm **Session Sponsor Recognition – Restek Corporation**

2:05-2:30 pm **Anton Kaufmann**, Official Food Control Authority of The Canton Of Zurich, Zürich; Switzerland
O-05 **Improving the quechers liquid/liquid extraction of analytes with widely varying physicochemical properties: Example of 201 veterinary drugs in milk**

2:30-2:55 pm **Nicolas Michlig**, USDA, Wyndmoor, PA; USA
O-06 **Assessment of a new cartridge design in automated miniaturized solid-phase extraction cleanup for pesticides and environmental contaminants in fatty and nonfatty matrices**


- 2:55-3:20 pm**
O-07 **Jian Wang**, Canadian Food Inspection Agency, Calgary, Alberta; Canada
The Study of Ultra-high Performance Liquid Chromatography Electrospray Ionization Q-Orbitrap Mass Spectrometry and Various Extraction Methods for Fingerprinting and Identification of Molecular Authenticity Markers from Apple Juices and Grape Juices
- 3:20-3:45 pm**
O-08 **Jinchuan Yang**, Waters Corporation, Milford, MA; USA
Analysis of Aminoglycosides in Foods using LC-MS/MS with a Zwitterionic Stationary Phase Column
- 3:45-4:05 pm** **Live Q&A for Session 2**
- 4:10-4:30 pm** **Speed Networking**

Wednesday, July 27, 2022

- 9:00-10:00 am** **Poster Session Presentations – (up to 5 posters)**
(5-minute videos and presenter provides contact info for Q and A follow-up)
- 10:05-12:05 pm** **SESSION 3:** **sponsored by** 
Method development and validation for multi-residue methods
Co-Chairs: Kate Mastovska and Raegyn Taylor
- 10:05-10:10 am** **Session Sponsor Recognition – Waters**
- 10:10-10:25 am**
O-09 **Simon Hird**, Waters Corporation, Wimlsow, Cheshire; United Kingdom
Bringing reliable determination of anionic polar pesticides in food to the routine laboratory
- 10:25-10:40 am**
O-10 **Virgínia Cruz Fernandes**, REQUIMTE/LAQV, Instituto Superior de Engenharia, Instituto Politécnico do Porto, PORTO; Portugal
The use of honey as an environmental biomonitor of contamination in Natural Park of Montesinho: a comparison of extraction methods for the determination of multiple contaminants
- 10:40-10:55 am**
O-11 **Anastasia Andrianova**, Agilent Technologies, Wilmington, DE; USA
A Robust High-Throughput GC/MS/MS Analysis of 203 Pesticides in Under 10 Minutes with Helium and Hydrogen Carrier Gasses
- 10:55-11:10 am**
O-12 **Shun-Hsin Liang**, Restek Corporation, Bellefonte, PA; USA
Simultaneous Determination of Alternaria Toxins, Ergot Alkaloid Epimers, and Other Major Mycotoxins in Various Food Matrices by LC-MS/MS
- 11:10-11:25 am**
O-13 **Carlos Parra**, Now Foods, Bloomingdale, IL; USA
Robust Analysis of Pesticide Residues in Black Tea by Improved GC-MS/MS
- 11:25-11:40 pm**
O-14 **Michael Gross**, US Geological Survey, Sacramento, CA; USA
Development and Application of a Multiresidue Method for the Analysis of Pesticides in Plasma
- 11:40-12:05 pm** **Live Q&A for Session 3**
- 12:30-1:30 pm**  **Vendor Technology Presentation**
Improving Laboratory Efficiency with Sensitivity - A Residue Mega Method Case Study
Craig Butt, Ph.D., Manager, Applied Markets, SCIEX; craig.butt@sciex.com

- 1:45-1:55 pm** **Speed Networking**
- 2:00-4:00 pm** **SESSION 4:**
QA for pesticide analysis
Co-Chairs: Jens Andersen and Brian Eitzer
- 2:00-2:25 pm** **Daniel Biggerstaff**, o2si Smart Solutions, North Charleston, SC; USA
O-15 **What ISO 17034 Accreditation of Reference Materials Mean for Your Quality Assurance/Quality Control Program**
- 2:25-2:50 pm** **Jens Enevold Thaulov Andersen**, Botswana International University of Science and Technology, Palapye; Botswana
O-16 **The Principle of Pooled Calibrations Indicates Shrinking the Valid Range of pH Measurements**
- 2:50-3:15 pm** **Jonathan Decenzi**, NOW Foods, Bloomingdale, IL; USA
O-17 **Challenges in Determining Acceptability of Dietary Supplement Raw Materials Based on Pesticide Residue Results Obtained Using In-House Methodology**
- 3:15-3:40 pm** **Jens Enevold Thaulov Andersen**, Botswana International University of Science and Technology, Palapye; Botswana
O-18 **Squeezing more out of Laboratory Analyses with QA/QC, Appetizer to short course in 2023**
- 3:40-4:00 pm** **Live Q&A for Session 4**

Thursday, July 28, 2022

- 9:00-10:00 am** **Poster Session Presentations – (up to 5 posters)**
(5-minute videos and presenter provides contact info for Q and A follow-up)
- 10:05-11:50 am** **SESSION 5:**
Environmental contaminants and toxins
Co-Chairs: Ken Kise and Wendy Young
- sponsored by 
- 10:05-10:10 am** **Session Sponsor Recognition – SCIEX**
- 10:10-10:30 am** **Kai Zhang**, US Food and Drug Administration, College Park, MD; USA
O-19 **Determination of mycotoxins in dried fruits using LC-MS – homogeneity, troubleshooting, and confirmation of identity**
- 10:30-10:50 am** **Raegyn Taylor**, USDA, Wyndmoor, PA; USA
O-20 **Validation of QuEChERSER for PFAS in Food with Method and Instrumental Comparisons**
- 10:50-11:10 am** **Amos Dwamena**, Smithers, Wareham, MA; USA
O-21 **Pesticides Exposure Assessment: Analytical Method Challenges and Opportunities**
- 11:10-11:30 am** **Michelle Hladik**, U.S. Geological Survey, Sacramento, CA; USA
O-22 **Measuring Wild Bee Exposure to Pesticides Using Silicone Bands and Tissue Residues**
- 11:30-11:50 am** **Live Q&A for Session 5**

12 noon-1:00 pm

New Product Innovations to Advance Food Safety Testing

Emily Rose Britton, Sr. Market Development Manager, Americas Food & Natural Products, Waters Corporation; Emily_Britton@waters.com

Routine Quantitation of Challenging Compounds using Xevo™ TQ Absolute

Gordon Fujimoto, Group Leader, Chemical Analysis Demo Lab, Waters Corporation; Gordon_Fujimoto@waters.com

1:05-2:35 pm

SESSION 6:**Troubleshooting/Challenges and Solutions****Co-Chairs: Alex Krynitsky and Wiley Hall**

1:05-1:30 pm

Charles Powley, Center For PFAS Solutions, New Castle, DE; USA

O-23

PFAS Analytical Method Development and Troubleshooting

1:30-1:55 pm

Patricia Atkins, Spex, An Antylia Scientific Company, Metuchen, NJ; USA

O-24

Chemistry, Chromatography & Cannabis: Troubleshooting the Cannabis Workflow for Analysis

1:55-2:20 pm

Sarah King, Eurofins Central Analytical Laboratories, New Orleans, LA; USA

O-25

Pesticide Residue Testing: Challenges Faced with Routine Analysis

2:20-2:35 pm

Live Q&A for Session 6

2:45-4:00 pm

SESSION 7:**Forum Troubleshooting****Moderators: Simon Hird and Scott Krepich**

Panelists: Charles Powley, Center For PFAS Solutions, New Castle, DE; USA; **Patricia Atkins**, Spex, An Antylia Scientific Company, Metuchen, NJ; USA; **Sarah King**, Eurofins Central Analytical Laboratories, New Orleans, LA; USA; **Sherri Turnipseed**, USFDA, Denver, CO; USA; and **Brian Veach**,

4:05-4:30 pm

Speed Networking**Friday, July 29, 2022**

9:00-10:45 am

SESSION 8:**Advances and Issues in Analytical Methods for Veterinary Drug Residues****Co-Chairs: Eric Verdon and Sherri Turnipseed**

9:00-9:20 am

Jessica Rafson, FDA, Denver, CO; USA

O-26

Evaluation of coated blade extractions prior to LC-HRMS for the analysis of veterinary drug residues in aquaculture products

9:20-9:40 am

Randall Purves, Canadian Food Inspection Agency, Saskatoon, Saskatchewan; Canada

O-27

Development of a confirmatory method for the detection of gestagens in animal liver using a simplified extraction with LC-MS and high-field asymmetric waveform ion mobility spectrometry (FAIMS)

9:40-10:00 am	Ghinwa Ismail , Anses, French National (NRL) and EU Reference Laboratory (EU-RL) for Veterinary Medicinal Product and Antimicrobial Residues in Food from Animal Origin, Laboratory of Fougères; and CNRSL, Lebanese Atomic Energy Commission, Laboratory for Analysis of Organic Compounds, Lebanon, Fougères, Bretagne; France
O-28	Optimization of multi-residues screening method for the detection of antibiotics in Milk products: the case of Labneh.
10:00-10:20 am	Ryan Gibbs , Canadian Food Inspection Agency, Dartmouth, Nova Scotia; Canada
O-29	Evaluation of the uncertainty in differing approaches to correct for matrix effects in LC-MS/MS analysis of antibiotics and growth promoters in fish products
10:20-10:45 am	Live Q&A for Session 8
11:15 am–12:15 pm	(tentative) Vendor Technology Presentation
12:20-12:30 pm	Speed Networking
12:35-2:40 pm	<div style="display: flex; align-items: center; justify-content: space-between;"> <div style="flex: 1;"> <p>SESSION 9: Common Challenges with Cannabis Compliance Testing Co-Chairs: Matt Noestheden and Stephen Goldman</p> </div> <div style="text-align: right;">  <p>sponsored by Agilent</p> </div> </div>
12:35-12:40 pm	Session Sponsor Recognition – Agilent
12:40-1:00 pm	Lukas Vaclavik , Eurofins Food Chemistry Testing, Madison, WI; USA
O-30	Low Level LC-MS/MS Determination of Cannabinoids in Isolates, Hemp Plant Materials, and Extraction By-Products
1:00-1:20 pm	Anthony Macherone , Agilent Technologies, Wilmington, DE; USA
O-31	The Pros and Cons of Mass Spectrometry for Cannabis Potency Testing
1:20-1:40 pm	Walter Wilson , NIST, Gaithersburg, MD; USA
O-32	Results from two CannaQAP Interlaboratory Study Exercises at NIST for Improving Cannabinoid, Toxic Element, and Moisture Measurements in the Cannabis Industry
1:40-2:00 pm	Kate Evans , Longboard Scientific Consulting Corporation, Colorado Springs, CO; USA
O-33	Navigating Uncharted Territory: Cannabis Testing Landscape from an Honest Perspective
2:00-2:20 pm	Avinash Dalmia , Perkinelmer, Shelton, CT; USA
O-34	A novel LC/MS/MS method with ESI and APCI ion source for analysis of 102 pesticides and 5 mycotoxins regulated by Colorado state in Hemp
2:20-2:40 pm	Live Q&A for Session 9
2:40-3:00 pm	Poster Awards and Closing