

# 2024 - 60<sup>th</sup> ANNUAL NORTH AMERICAN CHEMICAL RESIDUE WORKSHOP

## MEETING PROGRAM

### Sunday, July 14, 2024

1:00-6:00 pm	Registration	Caribbean Foyer
1:00-5:00 pm	Exhibitor set-up	Caribbean Ballroom
3:00 - 6:00 pm	Poster Board set-up	Caribbean Ballroom
2:00-3:30 pm	<b>NACRW Veterinary Drugs Working Group</b>	<b>Grand Ballroom E</b>
2:00-2:25 pm VDWG-01	<b>Anton Kaufmann</b> , Official Food Control Authority of the Canton of Zürich, Zürich; Switzerland <b>Comparison of the Low versus High Resolution-based Confirmation Criteria for Veterinary Chemical Residues in Food Control</b>	
2:25-3:00 pm VDWG-02	Robin Kämpf and <b>Anton Kaufmann</b> , KLZH, Official Food Control Authority of the Canton of Zurich, Zürich, Switzerland; <b>Maiwenn Le Floch</b> and Eric Verdon, ANSES, the French Agency for Food, Environmental and Occupational Health & Safety, Laboratory of Fougères; France; and <b>Alejandra Rodríguez Haralambides</b> , University of the Republic, Montevideo; Uruguay <b>Progress of the Veterinary Drug Residue Collaborative Study, 2023-2024 (Rounds 1 &amp; 2)</b>	
3:00-3:15 pm VDWG-03	<b>Eric Verdon</b> , the French Agency for Food, Environmental and Occupational Health & Safety, Laboratory of Fougères; France <b>News on the new EU Implementing Regulation for Analytical Methods Performance for the Veterinary Drug Residue Official Control in Food: CIR (EU) 2021/808</b>	
3:15-3:30 pm	<b>Open Forum</b> <b>Moderators:</b> <b>Jo Marie Cook</b> , Florida Department of Agriculture, FL, USA, retired; and <b>Eric Verdon</b> , The French Agency for Food, Environmental and Occupational Health & Safety, Laboratory of Fougères; France	
3:30-4:00 pm	<b>Beverage Break</b>	<b>Grand Ballroom Foyer</b>
4:00-5:30 pm	<b>Workshop with Antony Williams US EPA</b> <b>A Hands-On Experience of Accessing Data from EPA Dashboards to Support Analysis of Pesticides, Veterinary Drug Residues, and other Chemicals in Food, Animal Feed, and Environmental Samples</b>	<b>Grand Ballroom E</b>
6:30 - 8:00 pm	<b>Welcome Reception (Exhibit Hall)</b>	<b>Caribbean Ballroom</b>

### Monday, July 15, 2024

7:00 - 9:30 am	Poster Board Set-up	Caribbean Ballroom
7:15 - 8:15 am	<b>Restek Vendor Seminar</b> ( <i>pre-registration required</i> )	<b>Grand Ballroom E</b>
7:30 am -5:00 pm	Registration	Caribbean Foyer
7:45- 8:15 am	Early Morning Coffee	Caribbean Foyer
8:20-8:45 am	<b>Opening Remarks - NACRW 2024</b>	<b>Grand Ballroom F-K</b>
8:20-8:30 am	Sherry Garris, Chair, FLAG Works, Inc. Board of Directors	
8:30-8:35 am	Simon Hird, 2024 NACRW President	
8:35-8:40 am	Wiley Hall and Wendy Young, 2024 NACRW Program Co-Chairs	

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8:40 - 10:45 am	<b>SESSION 1:</b> <i>sponsored by</i>  <b>Progress and Advances in Analytical Technology, Cheminformatics, Monitoring, and Risk Assessment for Hazardous Chemicals in the Environment and Food Supply</b> Co-Chairs: Jian Wang and Brian Ng	<b>Grand Ballroom F-K</b>
8:40-8:45 am	Session Sponsorship – SCIEX	
8:45-9:40 am Keynote Speaker	<b>Antony Williams</b> , US EPA, Durham, NC, USA <b>Accessing Data to Support Pesticide Residue and Emerging Contaminant Analysis from US-EPA Online Dashboards</b>	
9:45-10:10 am O-01	<b>Carsten Prasse</b> , Johns Hopkins University, Baltimore, MD, USA <b>Combining non-targeted analysis with computer-based hazard comparison approaches to support prioritization of unregulated organic contaminants in environmental media</b>	
10:15-10:45 am O-02	<b>Julien Parinet</b> , ANSES, Montreuil, France <b>Strengths &amp; weaknesses to reanalyze by QuEChERS-LC-HRMS/MS (targeted and suspected approaches) a selection of total diet study samples analyzed ten years ago by various LC-MS/MS methods</b>	
10:45 - noon	<b>Break - Exhibition and Poster Opening</b>	<b>Caribbean Ballroom</b>
11:00 am - noon	<b>Poster Session A (authors present for odd #s)</b>	<b>Caribbean Ballroom</b>
12 noon	Lunch on your own	
12:15 - 1:15 pm	<b>Agilent Technologies Vendor Seminar</b> ( <i>pre-registration required</i> )	<b>Grand Ballroom E</b>
1:30 - 3:10 pm	<b>SESSION 2:</b> <b>Non-Pesticide Residues</b> Co-Chairs: Eric Verdon and Jessica Krank	<b>Grand Ballroom F-K</b>
1:30-1:50 pm O-03	<b>Dr. Simon Hird</b> , Waters Corporation, Wimslow, Cheshire, UK <b>Determination of nitrofurans metabolites, including nifursol, in shrimp and fish by UPLC-MS/MS: in-house method validation according to Commission Implementing Regulation (EU) 2021/808</b>	
1:50-2:10 pm O-04	<b>Dr. Jana Hepner</b> , Restek Corporation, Bellefonte, PA, USA <b>Exploration of new Low-Pressure GC columns for food and environment emerging contaminants</b>	
2:10-2:30 pm O-05	<b>Frank Kero</b> , Bruker, Billerica, MA, USA <b>A novel approach for monitoring multi-classes of POPs in a single run by GC-Ion Mobility-HRMS</b>	
2:30-2:50 pm O-06	<b>Dr. Wiley Hall</b> , US Department of Agriculture, Agricultural Research Service, Parlier, CA, USA <b>Considerations and Progress in Developing Multiresidue Analysis Methods for the Inorganic Residues of Postharvest and Preplant Fumigants</b>	
2:50-3:10 pm	Q & A	

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3:10-3:40 pm	<b>BREAK- Exhibition &amp; Posters</b> <b>Poster Session B (authors present for even #s)</b>	<b>Caribbean Ballroom</b>
3:40-5:00 pm	<b>SESSION 3:</b> <b>Validations, Certifications and Regulatory Issues</b> Co-Chairs: Julia Coppin and Kate Mastovska	<b>Grand Ballroom F-K</b>
3:40-4:00 pm	<b>Spencer Walse</b> , US Department of Agriculture, Agricultural Research Service, Parlier, CA, USA	
<b>O-07</b>	<b>Regulatory Challenges to the Use of Postharvest Fumigants in the Global Trade of Agricultural Commodities</b>	
4:00-4:20 pm	<b>Luciana Teresa Dias Cappelini</b> , Florida International University, North Miami, FL, USA	
<b>O-08</b>	<b>Occurrence and distribution of emerging contaminants on children's food in Miami-Dade – FL</b>	
4:20-4:40 pm	<b>Alejandra Rodriguez-Haralambides</b> , Facultad de Química-IPTP, Universidad de la República- Uruguay, Pando, Canelones, Uruguay	
<b>O-09</b>	<b>Mapping of Mycotoxins Profiles in Wheat Production Regions of Uruguay</b>	
4:40-5:00 pm	<b>Thomas Day</b> , US Food and Drug Administration, Bothell, WA, USA	
<b>O-10</b>	<b>Detection of C. thevetia Cardiac Glycosides Adulteration in Dietary Supplements utilizing Untargeted High Resolution Mass Spectrometry</b>	
6:30-9:00 pm	<b>SOCIAL EVENT (Dinner) – Marriott Harbor Beach</b>	<b>Grand Ballroom A-E</b>

## Tuesday, July 16, 2024

7:15-8:15 am	<b>SCIEX Vendor Seminar</b> (pre-registration required)	<b>Grand Ballroom E</b>
8:00 am - 4:00 pm	Registration	<b>Caribbean Foyer</b>
8:00 am – 8:30 am	Early Morning Coffee	<b>Caribbean Foyer</b>
8:45 - 10:45 am	<b>SESSION 4:</b> <i>sponsored by</i>  <b>Agilent</b> <b>Residue Analysis in Difficult Matrices</b> Co-Chairs: Holly Lee and Julie Brunkhorst	<b>Grand Ballroom F-K</b>
8:45-8:50 am	Session Sponsorship - Agilent Technologies	
8:50-9:10 am	<b>Anton Kaufmann</b> , Official Food Control Authority of the Canton of Zurich, Zurich, Switzerland	
<b>O-11</b>	<b>Good Chromatography – A Sometimes Neglected Aspect of Modern Multiresidues Methods</b>	
9:10-9:30 am	<b>Benedict Liu</b> , CEM Corporation, Matthews, NC, USA	
<b>O-12</b>	<b>Automated Solvent Extraction Method of PFAS From Difficult Food and Environmental Matrices</b>	
9:30-9:50 am	<b>Jerry Mueller</b> , NOW Health Group, Bloomingdale, IL, USA	
<b>O-13</b>	<b>Effective Sample Preparation for LC-MS and GC-MS Multi-Pesticide Residue Analysis in Essential Oils Using Novel Passthrough Cleanup</b>	

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9:50-10:10 am O-14	<b>Zhihong Wang</b> , NOAA/NOS National Centers for Coastal Ocean Science, Charleston, SC, USA <b>Determination of Microcystins and Nodularins in Ambient Freshwater and Seawater by LC-MS</b>	
10:10-10:30 pm O-15	<b>Kaitlyn Nobles</b> , Trilogy Analytical Laboratory, Washington, MO, USA <b>Quantitative Analysis for the Adsorption and Desorption Capabilities of Mycotoxin Deactivators Containing Multiple Biogenic Amines by LC-MS/MS</b>	
10:30-10:50 am O-16	<b>Shweta Gupta</b> , ImagoAI, Inc., Milpitas, CA, USA <b>Quantification of Mycotoxin Levels in Grains Utilizing Hyperspectral Imaging and Artificial Intelligence</b>	
10:50 am-noon	<b>Break - Exhibition and Posters</b>	<b>Caribbean Ballroom</b>
11:00-noon	<b>Poster Session B (authors present for even #s)</b>	<b>Caribbean Ballroom</b>
12 noon	<b>Lunch on your own</b>	
12:15-1:15 pm	<b>Thermo Fisher Scientific Vendor Seminar (pre-registration required)</b>	<b>Grand Ballroom A-D</b>
1:30-3:10 pm	SESSION 5: <i>sponsored by</i>  <b>PFAS Contamination: Looking Beyond Environmental Matrices</b> Co-Chairs: Matt Noestheden and Elsie Peprah	<b>Grand Ballroom F-K</b>
1:30-1:35 pm	<b>Session Sponsorship – Thermo Fisher Scientific</b>	
1:35-2:00 pm O-17	<b>Amy Rand</b> , Carleton University, Ottawa, Ontario, Canada <b>PFAS analysis in house dust across socioeconomic factors using targeted LC-MS/MS and total fluorine approaches</b>	
2:00-2:25 pm O-18	<b>Ming Gao</b> , Merieux/Silliker, Crete, IL, USA <b>Detection and Quantitation of PFAS Substances in food and packaging with LC-MS/MS</b>	
2:25-2:50 pm O-19	<b>Anton Kaufmann</b> , Official Food Control Authority of the Canton of Zurich, Zurich, Switzerland <b>Fast and easy nontargeted detection of PFAS in complex food matrices</b>	
2:50-3:15 pm O-20	<b>Thomas Simones</b> , Maine CDC, Augusta, ME, USA <b>PFAS Contamination in Agricultural Settings and Assessment of Human Exposure Pathways through Food Products</b>	
3:15-3:55 pm	<b>BREAK- Exhibition &amp; Posters</b> <b>Poster Session A (authors present for odd #s)</b>	<b>Caribbean Ballroom</b>
4:00-5:00 pm	SESSION 6: <b>FORUM: Overcoming challenges in the lab - sharing the pain</b> Moderators: Kendra Adams and Simon Hird	<b>Grand Ballroom F-K</b>
5:05-6:00 pm	<b>NACRW Organizing Committee Meeting</b> <i>open to all attendees</i>	<b>Caribbean Ballroom</b>

## Wednesday, July 17, 2024

7:15-8:15 am	UCT, LLC Vendor Seminar <i>(pre-registration required)</i>	Grand Ballroom E
7:45 am-noon	Registration	Caribbean Foyer
7:45-8:15 am	Early Morning Coffee	Caribbean Foyer
8:30-10:05 am	SESSION 7: <i>sponsored by</i> <b>RESTEK</b> Sampling: Collection, Preparation, and Statistics Co-Chairs: Jana Hepner and Don Shelley	Grand Ballroom F-K
8:30-8:35 am	Session Sponsorship – Restek Corporation	
8:35-8:55 am	Amadeo Fernández-Alba, EURL-FV University of Almería, La Cañada de San Urbano, Almería, Spain	
O-21	Advancements in Miniaturization and Automation for Eco-Friendly Analytical Methods in Pesticide Residue Evaluation in Food	
8:55-9:15 am	Alexis Shelow, Restek, Bellefonte, PA, USA	
O-22	Reduced Instrument Downtime for Organochlorine Pesticide Analysis by Using an Optimized SPE Cartridge for Sample Extract Cleanup	
9:15-9:35 am	Ederina Ninga, EURL-CF, National Food Institute, Technical University of Denmark, Lyngby, Denmark	
O-23	Optimization and validation of new sorbents combination in micro solid phase extraction cartridges for the analysis of pesticides in cereals	
9:35-9:55 am	Volker Bornemann, Avazyme, Inc., Durham, NC, USA	
O-24	New, fully automated analytical method for accurate, extended PFAS screen in water, beverages, and food	
10:00-10:45 am	Student Scholarship Award Presentations	Caribbean Ballroom
10:45-noon	BREAK (Exhibition & Posters)	Caribbean Ballroom
12:00-1:00 pm	Waters Corp. Vendor Seminar <i>(pre-registration required)</i>	Grand Ballroom E
1:05-2:45 pm	SESSION 8: Pesticides: Method Improvements, Deficiencies and Expansions Co-Chairs: Ken Kise and Kyle Heater	Grand Ballroom F-K
1:05-1:25 pm	Jian Wang, Canadian Food Inspection Agency, Calgary, Alberta, Canada	
O-25	Application of nDATA Work Flow for Semi-Quantitative Screening of 1094 Pesticide Residues in Fruits and Vegetables using UHPLC/ESI Q-Orbitrap Full MS/vDIA	
1:25-1:45 pm	Greg Mercer, US Food and Drug Administration, Bothell, WA, USA	
O-26	Keeping a Regulatory Pesticide Monitoring Program Current: Extension of 38 Analytes to the FDA Harmonized Pesticide Method	
1:45-2:05 pm	Leah Ritter, Bayer, Chesterfield, MO, USA	
O-27	Residues of Glyphosate in Food and Dietary Exposure	

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2:05-2:25 pm O-28	<b>Anastasia Andrianova</b> , Agilent Technologies, Wilmington, DE, USA <b>A High-Efficiency Approach to Quantitating 246 Pesticides in Black Tea with GC/MS/MS using a New Electron Ionization (EI) Source for Maximized Uptime</b>	
2:25-2:45 pm O-29	<b>Jon Wong</b> , US Food and Drug Administration, College Park, MD, USA <b>Evaluation of Complex Food Matrices for Multiresidue Pesticide Analysis using QuEChERS Modificatins and GC- and LC-MS/MS</b>	
2:45-3:15 pm	<b>BREAK</b>	<b>Grand Ballroom Foyer</b>
3:15-4:55 pm	<b>SESSION 9:</b> <b>Toxins in Agriculture and Food Safety</b> Co-Chairs: Kai Zhang and Lukas Vaclavik	<b>Grand Ballroom F-K</b>
3:15-3:40 pm O-30	<b>Hans Mol</b> , Wageningen Food Safety Research, Wageningen, The Netherlands <b>Mycotoxins: Measuring Body Fluids versus Food to Assess Dietary Exposure</b>	
3:40-4:05 pm O-31	<b>Lidija Kenjeric</b> , Austrian Competence Centre for Feed and Food Quality,Safety and Innovation FFOQSI GmbH, Tulln an der Donau, Austria <b>Exploring Mass Spectrometer Limits: UHPLC-MS/MS Method for Determination of 1,000 Toxins in 10 Minutes</b>	
4:05-4:30 pm O-32	<b>Krista Thomas</b> , National Research Council Canada, Halifax, NS, Canada <b>Multi-Class Analysis of Cyanobacterial Toxins using Hydrophilic Interaction Liquid Chromatography–Mass Spectrometry</b>	
4:30-4:55 pm O-33	<b>Jacolin Murray</b> , National Institute of Standards and Technology, Gaithersburg, MD, USA <b>Development of a Mycotoxin in Animal Feed Reference Material</b>	
4:55-5:10 pm	<b>Poster Awards and Closing</b>	<b>Grand Ballroom F-K</b>
5:10 pm	<b>Adjourn</b>	