

**Draft 2009 FPRW Technical Program**  
**July 19-22, 2009**

**Sunday July 19, 2009 (Evening)**

6:00 – 7:30 PM Restek Evening Seminar

**Monday July 20, 2009 (Morning)**

7:30 – 8:15 AM Waters Breakfast Seminar

**Emerging Food Safety Issues**

*Chair: Alexander J. Krynitsky, FDA-CFSAN, College Park, MD*

8:30 – 8:40 AM

**Welcome**

8:45 – 9:20

Keynote Address: Protecting the Nation's Food Supply-Challenges for the Testing Laboratories

*Jonathan Devries, Medallion Laboratories, Minneapolis, MN*

9:25 – 9:40

Mycotoxin Analysis and Food Safety

*Mary Trucksess, FDA-CFSAN, College Park, MD*

9:45 – 10:00

Genomic Approach to Aflatoxin Degradation

*William Holmes, State Chemical Laboratory – Office of the State Chemist and Mississippi State University, MS*

10:05 – 10:50

**Break**

10:50 - 11:05

Innovative Biosensors for Pre-Screening of Pesticide Residues in Environmental and Food Matrices to Support Laboratory Analysis

*Arianna Tibuzzi, Biosensor SRL. Palombara Sabina – Rome, Italy*

11:10 – 11:25

Multiresidue Pesticide Determination in Milk and Cream Using Modified QuEChERS Extraction Followed by Comprehensive GCxGC-TOF MS

*Douglas G. Hayward, FDA-CFSAN, College Park, MD*

11:30 – 11:45

PAH Concentrations in Mate Tea and Kenyan Tea

*Michele M. Schantz, NIST, Gaithersburg, MD*

**Monday July 20, 2009 (Afternoon)**

12:15 – 1:15 PM      LECO Luncheon Seminar

**QuEChERS and Other Novel Approaches in Sample Preparation**

*Chair: Jon W. Wong, FDA-CFSAN*

- 1:30 – 1:45 PM      Multiresidue Analysis of 168 Pesticides in Fruits and Vegetables  
by Dispersive SPE and GC-MS/MS  
*Kai Zhang, FDA-CFSAN, College Park, MD*
- 1:50 – 2:05          Two Modified QuEChERS Methods for the Multiresidue  
Determination of Pesticides in Produce Samples  
*Frank Schenck, FDA-ORA (Emeritus), Atlanta, GA*
- 2:10 -2:25          Determination of formetanate HCl in Peach and Nectarine Samples  
Using Liquid Chromatography/Mass Selective Detection  
*Lynda V. Podhorniak, U.S. EPA, Office of Pesticide Programs,  
Fort Meade, MD*
- 2:30 – 2:45          A Rapid Multiresidue Analysis of Pesticides in Fruits and  
Vegetables Using a Buffered Acetonitrile Extraction and  
Dispersive Cleanup  
*Amy Brown, Florida Department of Agriculture and Consumer  
Services, Tallahassee, FL*
- 2:50 – 3:35          **Break**
- 3:35 – 3:50          How DPX and Micro Luke Works at SCDA to Screen Produce for  
Residues  
*Sherry T. Garris, South Carolina Dept. of Agriculture, Columbia,  
SC*
- 3:55 – 4:10          Comparison of Various QuEChERS Approaches for the  
Determination of Pesticide Residues in Produce  
*Jeremy Shia, Waters Corporation, Milford, MA*
- 4:15 – 4:30          Application of the QuEChERS Extraction Method for the Analysis  
of Pyrethrins and Pyrethroids in Fin and Non-Fin Fish  
*Veronica Roscoe, Health Canada, Ottawa, Canada*
- 4:35 – 4:50          Comparison of Acetonitrile and Ethyl Acetate, and Other Aspects,  
in the QuEChERS Method  
*Steven J. Lehotay, USDA-ARS, Wyndmoor, PA*

**Tuesday July 21, 2009 (Morning)**

7:30 – 8:15 AM ThermoFisher Scientific Breakfast Seminar

**Regulatory Requirements of LC/MS-MS for the Multi-Residue Testing of Pesticides, Antibiotics, and Toxins: Current Trends, Challenges, and the Future Development.**

*Chair: Paul Yang, Ontario Ministry of the Environment*

8:30 - 8:45 AM Use of LC-MS/MS as a Practical Tool for FDA Regulatory Laboratories *Alexander J. Krynitsky, FDA-CFSAN, College Park, MD*

8:50 – 9:05 Single Extraction Multi-Class, Multi-Residue Drug Analysis, including Aminoglycosides, in Animal Tissue, using Liquid Chromatography coupled to Tandem Mass Spectrometry *Perry A. Martos, University of Guelph, Guelph, Ontario, Canada*

9:10 -9:25 The Challenge of Regulatory Testing from a Contract Testing Perspective *John M. Reuther, Eurofins Central Analytical Laboratories, Metairie, LA*

9:30 – 9:45 Proposed and Recently Approved ASTM Methods for Nonvolatile Compounds Analyzed by Liquid Chromatography/Mass Spectrometry *Lawrence Zintek, U.S. EPA Region 5, Chicago, IL*

9:50 – 10:35 **Break**

10:35 – 10:50 Development and Inter-Laboratory Validation of a Liquid Chromatography/Tandem Mass Spectrometry Method for Multiresidue Pesticides Analysis *Paul Yang, Ontario Ministry of the Environment, Etobicoke, Ontario, Canada*

10:55 – 11:10 The Development and Application of a Pesticide Library for the Identification and Confirmation Analysis in Various Sample Matrices by LC/MS/MS *André Schreiber, Applied Biosystems, Concord, Ontario, Canada*

11:15 – 11:30 Applications of LC/ESI-MS/MS and UPLC QqTOF MS for the Determination of 148 Pesticides in Berries *Jian Wang, Canadian Food Inspection Agency, Calgary, Alberta, Canada*

**Tuesday July 21, 2009 (Afternoon)**

12:15 – 1:15 PM      Agilent Luncheon Seminar

**Emerging Technologies Regarding Mass Spectrometry**

*Chair: Steven J. Lehotay, USDA-ARS*

1:30 – 1:45 PM      High Resolution Full Scan with a Benchtop Orbitrap MS – The Ideal Tool for Complex Pesticide Analysis  
*Helmut Muenster, ThermoFisher Scientific, Waltham, MA*

1:50 – 2:05          New LC/MS/MS Tools and Technology to Simplify the Use of LC/MS/MS for High Throughput Screening and Quantitation  
*Christopher Borton, Applied Biosystems, Concord, Ontario*

2:10 – 2:25          The Application of UPLC TOF and UPLC Q-TOF MS for the Quantitative and Qualitative Determination of Pesticide Multi-Residues in Fruit & Vegetables and Poisoned Animals  
*Michael J. Taylor, Science and Advice for Scottish Agriculture, Edinburgh, Scotland, UK*

2:30 – 2:45          The Practical Application of Concurrent LC & GC-MS/MS for the Rapid Analysis of Multiple Pesticides in a High Throughput Laboratory  
*Don Brown, Bodycote Law Labs Ltd., Birmingham, UK*

2:50 – 3:35          **Break**

3:35 – 3:50          Optimizing MS Analysis of Pesticides via QuEChERS by Eliminating Degradation and Compound Loss  
*Joan M. Stevens, Agilent Technologies, Wilmington, DE*

3:55 – 4:10          Screening Method of Pesticides Residues in Processed Foods by Accurate Mass Measurement using LCMS-IT-TOF  
*Robert Classon, Shimadzu Scientific Instruments, Columbia, MD*

4:15 – 4:30          Analysis of Pesticides in Smokeless Tobacco Extracts by Comprehensive Multi-Dimensional Gas Chromatography-Time of Flight Mass Spectrometry (GCxGC-TOFMS)  
*Joe Binkley, LECO Corporation, St. Joseph, MI*

4:35 – 5:35          MS Users Meeting  
*Moderator: William Holmes, State Chemical Laboratory – Office of the State Chemist and Mississippi State University, MS*

5:35 – 7:00          Organizing Committee Planning Meeting

**Wednesday July 22, 2009 (Morning)**

7:30 – 8:15 AM Pickering Laboratories Breakfast Seminar

**General Topics Regarding Residue Analysis**

*Chair: Jack Cochran, Restek Corporation*

8:30 – 8:45 AM Increasing Sample Throughput in Pesticide Residue Analysis  
Using a Geno/Grinder Extractor and LC-MS/MS Detection-Part II  
*Joseph P. McClory, Dupont Crop Protection, Newark, DE*

8:50 – 9:05 High Throughput Screening of Veterinary Drugs: Challenges and  
Successes  
*Sherri B. Turnipseed, FDA-Animal Drug Research Center,  
Denver, CO*

9:10 – 9:25 Analysis of Veterinary Drug Residues using QuEChERS and a  
Unique Biphenyl Stationary Phase  
*Julie Kowalski, Restek Corporation, Belfonte, PA*

9:30 – 9:45 Pharmaceuticals and Other Emerging Contaminants in Source and  
Finished Drinking Water  
*Susan Glassmeyer, U.S. EPA, Cincinnati, OH*

9:50 – 10:35 **Break**

10:35 – 10:50 Technology that Streamlines Sample Preparation  
*Yolanda Fintschenko, ThermoFisher Scientific, San Jose, CA*

10:55 – 11:10 Development of a GC-MS Multiresidue Analysis Method for High  
Lipid Content Grains  
*Robert Trengove, Murdoch University, Perth, Australia*

11:15 – 11:30 Extraction of POPs and Acidic, Neutral, and Basic Compounds in  
Particulate Laden Aqueous Samples with a Single Extraction Step  
Using a Fully Automated Extraction System  
*Naomi Reid, Horizon Technology, Salem, NH*

**Technical Program Adjourns**