

2018 EAS CONFERENCES-IN-MINIATURE

All Short Courses are full-day from 8:30am – 5:00pm; unless noted otherwise

BIOANALYSIS

Technical Sessions

- Bioanalysis: Proteins, Peptides and Lipid Bilayers (11/12 PM)
- Innovative Approaches to Antibody Analysis (11/12 PM)
- American Microchemical Society Benedetti-Pichler Award, Honoring Ryan Bailey, University of Michigan (11/13 AM)
- Proteomics and Protein Bioanalysis (11/14 PM)

Short Course

- Intact and Top-Down Protein Characterization and Quantitation by Mass Spectrometry: Approaches for Pharmaceutical Drug Discovery, Development, and Bioanalysis (11/11)

CHEMOMETRICS

Technical Sessions

- Better Raman Spectroscopy through Chemometrics (11/13 AM)

Short Courses

- Chemometrics Without Equations I & II (11/11-11/12)
- Introduction to Chemometrics Without Equations (11/11)
- Intermediate Chemometrics Without Equations (11/12)

COMPLIANCE & REGULATORY

Technical Sessions

- Impact of New Regulatory Expectations to Drug Development in Pharmaceutical Industry (11/12 PM)
- Pharmaceutical Drug Product Quality (11/13 PM)
- Ensuring Quality of Pharmaceutical Products (11/14 PM)

Short Courses

- Quality by Design (QbD): A New Paradigm for the Analytical Laboratory: Part 1 & 2 (11/13-11/14)
- Keeping Your Analytical Procedures in Compliance with the FDA: Validation, Documentation, and Change Management (11/14)

CONSERVATION SCIENCE

All sessions organized by the New York Conservation Foundation

Technical Sessions

- Surface Analyses for Cultural Heritage I (11/13 AM)
- Surface Analyses for Cultural Heritage II (11/13 PM)
- DNA Analysis in Cultural Heritage I (11/14 AM)
- DNA Analysis in Cultural Heritage II (11/14 PM)

ENVIRONMENTAL & FOOD ANALYSIS

Technical Sessions

- **EAS Young Investigator Award, Honoring Kerri Pratt, University of Michigan (11/12 PM)**
- Analytical Solutions to the Worlds Problems (11/13 PM)
- Averting Drinking Water Disasters with Analytical Chemistry (11/14 AM)
- Advances in Spectroscopy for Food Safety and Quality (11/14 AM)
- Novel Approaches to Analysis of Extreme Eco-Toxicological Contaminants (11/14 AM)
- Testing of Active Compounds and Contaminants in Food & Cannabis Products (11/14 PM)

FORENSIC & MICROSCOPY ANALYSIS

Technical Sessions

- The Role of Forensic Analysis in Combating the Opioid Epidemic (11/12 AM)
- Counterfeit Analysis: Confirming, Identifying, and Tracking the Attack on Legitimate Products (11/14 PM)
- Advance Solutions in the Analysis of Forensic Samples (11/12 PM)
- Research from our Emerging Forensic Scientists (11/13 AM)
- Forensic Microscopy "What is it? Who does it?" (11/13 PM)
- New York Microscopical Society Ernst Abbe Award; Honoring: Peter R. De Forest, retired, John Jay College of Criminal Justice (11/14 AM)
- Memorial Session Honoring Richard Saferstein (11/14 PM)

GAS CHROMATOGRAPHY

Technical Sessions

- Recent Advances and Applications of Multidimensional Chromatography (11/13 AM)
- New Developments in GC Analysis Capabilities (11/13 AM)
- Modern Advances in Gas Chromatography (11/13 PM)

Short Courses

- Getting the most from GC and GC/MS (11/11)
- Practical Gas Chromatography (11/11-11/12)
- Troubleshooting Chromatographic Systems (11/13-11/14)

GREEN CHEMISTRY

Keynote Lecture: Nov. 12, 4:15pm
Green Chemistry: The Missing Elements
John Warner, Warner Babcock Institute for Green Chemistry

Technical Sessions

- Finished Product Automation: Enabling the Products of the Future through Automation (11/12 AM)
- Recent Advances in Green Analytical Chemistry (11/12 PM)
- Analytical Solutions to the Worlds Problems (11/13 PM)
- Modern Applications of Supercritical Fluid Chromatography (11/14 AM)

Short Courses

- Supercritical Fluid Chromatography (SFC): A Powerful and Greener Tool for Analytical and Preparative Separations (11/13)

LABORATORY & DATA ANALYSIS

Technical Session

- Managing Your Lab Resources, Internal and External (11/12 PM)
- Optimization of Laboratory Practices (11/14 PM)

Short Courses

- Taking Advantage of the Power of Excel (11/11)
- Setting Data Quality Objectives and Determining, Reporting, and Interpreting Data Quality Indicators to Meet Scholarly Publication Requirements (11/13)
- Quality by Design (QbD): A New Paradigm for the Analytical Laboratory: Part 1 & 2 (11/13-11/14)
- Analytical Instrument Qualification from a Chemical Metrology Perspective (11/14)

LIQUID CHROMATOGRAPHY

Breakfast Lecture: Nov. 13, 7:30am
Making the Case for Multidimensional Liquid Chromatography in the Search for Biomarkers
Mark Schure, Theoretical Separation Science Laboratory

Technical Sessions

- **EAS Award for Outstanding Achievements in Separation Sciences, Honoring Christopher Pohl, Thermo Fisher Scientific (11/12 AM)**
- The Current and Future Role of HILIC in the Separation World (11/13 PM)
- Modern Applications of Supercritical Fluid Chromatography (11/14 AM)
- Optimizing HPLC Analysis through Column Selection and Modelling (11/14 AM)

Short Courses

- Optimizing HPLC Separations with Knowledge of Analyte Size, Column Pore Size, and Phase Chemistry (11/11)
- Develop Robust HPLC Methods for Pharmaceutical Analyses (11/11)
- LC/MS: Theory, Instruments, and Applications (11/11-11/12)
- Modern HPLC/UHPLC for Practicing Scientists Parts 1 &/or Part 2: Fundamentals, Best Practices and Applications (11/11-11/12)
- Introduction to GPC/SEC for Polymer Analysis (11/12)
- LC/MS Method Development for Small Molecule Pharmaceuticals (11/12-11/13)

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LIQUID CHROMATOGRAPHY *continued*

Short Courses

- Supercritical Fluid Chromatography (SFC): A Powerful and Greener Tool for Analytical and Preparative Separations (11/13)
- How to Develop Validated HPLC Methods: Rational Design with Practical Statistics and Troubleshooting (11/13-11/14)
- Troubleshooting Chromatographic Systems (11/13-11/14)
- HPLC and UPLC Troubleshooting (11/14)
- How Liquid Chromatography Works: Separation Principles Explained in Chromatograms (11/14)

MASS SPECTROMETRY

Technical Sessions

- Unique Innovations with Mass Spectral Detection (11/12 AM)
- **EAS Young Investigator Award, Honoring Kerri Pratt, University of Michigan (11/12 PM)**
- **EAS Award for Outstanding Achievements in Mass Spectrometry, Honoring Yinsheng Wang, University of CA-Riverside (11/13 AM)**
- Advances in Mass Spectrometric Analysis (11/13 PM)

Short Courses

- Interpretation of Mass Spectra with Practical Solutions to Problems (11/11)
- Getting the most from GC and GC/MS (11/11)
- Intact and Top-Down Protein Characterization and Quantitation by Mass Spectrometry: Approaches for Pharmaceutical Drug Discovery, Development, and Bioanalysis (11/11)
- LC/MS: Theory, Instruments, and Applications (11/11-11/12)
- LC/MS Method Development for Small Molecule Pharmaceuticals (11/12- 11/13)

NMR SPECTROSCOPY

Technical Sessions

- Challenges Solved by NMR: Diverse Problems and Technologies (11/12 AM)
- New Tools in Solution NMR Spectroscopy (11/12 PM)
- Solid State NMR Studies of Disordered Systems (11/13 AM)
- **EAS Award for Outstanding Achievements in Magnetic Resonance, Honoring Clare Grey, University of Cambridge (11/13 PM)**

Short Courses

- Practical NMR Spectroscopy (11/14)

PHARMACEUTICAL ANALYSIS

Technical Sessions

- Stability Indicating Method Development and Forced Degradation Experimental Approaches (11/12 AM)
- The Role of Chirality in the Pharmaceutical Industry (11/12 PM)
- Impact of New Regulatory Expectations to Drug Development in Pharmaceutical Industry (11/12 PM)
- Analytical Solutions to Challenges in Impurity Testing (11/13 AM)
- PAT: Having Eyes in the Process (11/13 AM)
- Enabling Real Time Release Testing with PAT (11/13 PM)
- Pharmaceutical Drug Product Quality (11/13 PM)
- Challenges in Pharmaceutical Analysis: Formulations and Method Transfer (11/14 AM)
- Ensuring Quality of Pharmaceutical Products (11/14 PM)
- Proteomics and Protein Bioanalysis (11/14 PM)

Short Courses

- Lifecycle Approach to Analytical Methods: Incorporating QbD Concepts into Method Development, Validation, Verification (11/11)
- Process Analytical Technology: Out of the lab and into the Line (11/11)
- Intact and Top-Down Protein Characterization and Quantitation by Mass Spectrometry: Approaches for Pharmaceutical Drug Discovery, Development, and Bioanalysis (11/11)
- Physical Characterization and Methods of Analysis of Pharmaceutical Solids: Essential Knowledge (11/11)
- Analytical Sampling and Sample Preparation (11/12)
- Introduction to GPC/SEC for Polymer Analysis (11/12)
- Evaluation of Trace/Ultratrace Impurities in Pharmaceuticals (11/12)
- LC/MS Method Development for Small Molecule Pharmaceuticals (11/12-11/13)
- Stability Studies: The Tools, Methods and Predictions During Each Stage of Pharmaceutical Development (11/13)

PUBLIC HEALTH

Technical Sessions

- The Role of Forensic Analysis in Combating the Opioid Epidemic (11/12 AM)
- Spectroscopy Hits the Clinic (11/13 PM)
- Averting Drinking Water Disasters with Analytical Chemistry (11/14 AM)
- Testing of Active Compounds and Contaminants in Food & Cannabis Products (11/14 PM)

PROTEOMICS

Technical Sessions

- **EAS Award for Outstanding Achievements in Mass Spectrometry, Honoring Yinsheng Wang, University of CA-Riverside (11/13 AM)**
- The Current and Future Role of HILIC in the Separation World (11/13 PM)
- Proteomics and Protein Bioanalysis (11/14 PM)

Short Course

- Intact and Top-Down Protein Characterization and Quantitation by Mass Spectrometry: Approaches for Pharmaceutical Drug Discovery, Development, and Bioanalysis (11/11)

SENSORS

Technical Sessions

- American Microchemical Society Benedetti-Pichler Award, Honoring Ryan Bailey, University of Michigan (11/13 AM)
- Sensitive Electrochemical Methods from Sensors to Catalysis (11/14 AM)

SPECTROSCOPY

Plenary Lecture, November 14, 11:45am
Aptamers: A Case Study in Chemical vs. Biological Evolution, Linda McGown, Rensselaer Polytechnic Institute

Technical Sessions

- **EAS Award for Outstanding Achievements in Vibrational Spectroscopy, Honoring Stephen Cramer, University of California-Davis (11/12 AM)**
- Analytical Techniques for Elemental Analysis of Solids (11/12 AM)
- 60th Anniversary of SAS: Advancing Spectroscopy from Foundation to Future (11/12 PM)
- New York/New Jersey Section of the Society for Applied Spectroscopy Gold Medal Award, Honoring Igor Lednev, University of Albany (11/13 AM)
- Better Raman Spectroscopy through Chemometrics (11/13 AM)
- Spectroscopy Hits the Clinic (11/13 PM)
- Nano IR Development (11/13 AM)
- **EAS Award for Outstanding Achievements in the Fields of Analytical Chemistry, Honoring Linda McGown, Rensselaer Polytechnic Institute (11/14 AM)**
- Raman Material Identification (11/14 AM)
- Advances in Spectroscopy for Food Safety and Quality (11/14 AM)
- Analytical Chemistry On the Go: Mobile Measurements (11/14 AM)
- Enhancement Strategies in Raman & Infrared Spectroscopy (11/14 PM)

Short Courses

- Introduction to Vibrational Spectroscopy for Real-Time Analysis (11/11)
- Modern Portable Analytical Spectroscopy (11/13)
- Practical NMR Spectroscopy (11/14)

New for 2018
EAS will have Electronic Poster Sessions! Our call for posters deadline is September 1st. Visit our website for more details on how to submit and be a part of our exciting program!