

2013 Eastern Analytical Symposium
November 18-20, 2013
CONFERENCES-IN-MINIATURE

BIOANALYSIS

Technical Sessions

- American Microchemical Society Benedetti-Pichler Award, Honoring Mark A. Hayes (11/18 AM)
- EAS Award for Outstanding Achievements in the Fields of Analytical Chemistry, Honoring Irving Wainer (11/18 PM)
- New Technology for Quantitation of Intracellular Drugs in Transporter Studies (11/19 AM)
- Drug, Biomarker and Cellular Bioanalysis (11/19 PM)
- Advances in Fast and High Performance Bio-Analytical Separation Techniques (11/20 AM)

Short Courses

- Interpretation of Mass Spectra with Practical Solutions to Problems (11/19)
- Quality Control of Small Molecule Drugs and Recombinant Biologics: Fundamentals and Best Practices (11/19)

CHEMOMETRICS

Technical Sessions

- EAS Award for Outstanding Achievements in Chemometrics, Honoring Olav Martin Kvalheim (11/19 AM)
- Special Topics in Chemometrics and Quality-by-Design (11/19 PM)
- Advancements in Chemometric Data Treatment (11/20 PM)

Short Courses

- Chemometrics Without Equations I & II (11/17-11/18)
- Introduction to Chemometrics Without Equations (11/17)
- Intermediate Chemometrics Without Equations (11/18)

CONSERVATION SCIENCE

Technical Sessions

- Environmental Analysis for Cultural Heritage Part I (11/18 AM)
- Environmental Analysis for Cultural Heritage Part II (11/18 PM)
- Analytical Imaging for Cultural Heritage Part I (11/19 AM)
- Analytical Imaging for Cultural Heritage Part II (11/19 PM)

Short Course

- Practical, Scientific Use of Photogrammetry and Structure from Motion Technologies in Cultural Heritage (11/20)

CONSUMER PRODUCTS

Technical Sessions

- Challenges of Impurity Quantitation in Pharmaceutical Analysis (11/19 AM)
- USP Compendial Standards: Recent and Future Updates (11/20 AM)
- What's in the Cabinet? Looking at Everyday Items in a New Light (11/20 AM)
- Consumer Products - Challenges & Strategies (11/20 PM)

EDUCATION

Technical Sessions

- ACS Certification - How, When, Why (11/20 PM)

Seminars

- Chemistry and Climate Dynamics (11/17 PM)
- Chemistry and Climate Change (11/18 AM)
- Analytical Chemistry and Forensic Science (11/19 AM)
- Chemical Identity via Mass Spectrometry (11/20 AM)

Workshops

- Acquiring the Skills of a New Manager (11/18 AM)
- Subliminal Communication Skills – How to Get Your Boss to Agree with You (11/19 AM)
- A Little Help from my Friends: Mentors, Coaches, and Sponsors (11/20 AM)

ENVIRONMENTAL ANALYSIS

Technical Sessions

- Manufacturing, Pharmaceutical and Environmental Applications of GC and GC/MS (11/18 AM)
- Practical Trace Analysis in Forensic and Environmental Applications (11/18 AM)
- Environmental Surface Chemistry (11/19 AM)
- Keeping Water Safe: Analysis of Aqueous Systems (11/19 PM)
- Poster Session: Environmental Analysis (11/20)

Short Course

- Green Analytical Chemistry (11/17)

FORENSIC ANALYSIS

Technical Sessions

- Practical Trace Analysis in Forensic and Environmental Applications (11/18 AM)
- Innovations in Forensic Drug Analysis (11/19 AM)
- Forensic Toxicology: From Sample to Interpretation (11/19 PM)
- Forensic Microscopy VII "What is it? Who does it?" (11/20 AM)

GAS CHROMATOGRAPHY

Technical Sessions

- Manufacturing, Pharmaceutical and Environmental Applications of GC and GC/MS (11/18 AM)
- Poster Session: Chromatography: Coupled Methods of Analysis (11/18)
- Poster Session: GC+GC+MS (11/19)
- Advancements in HPLC Stationary Phases and GC Carrier Gases (11/20 PM)

Short Course

- Practical Gas Chromatography (11/17-11/18)
- Troubleshooting Chromatographic Systems (11/19-11/20)
- Sample Preparation: The Chemistry Behind the Techniques (11/19)
- Practical Headspace Gas Chromatography (11/20)

INFRARED SPECTROSCOPY

Technical Sessions

- What's New in NIR Analysis? (11/19)
- EAS Award for Outstanding Achievements in NIR, Honoring Susan Fouk (11/20 AM)

Short Courses

- Infrared Spectral (IR) Interpretation (11/19)

LABORATORY MANAGEMENT

Technical Sessions

- The Key to a Successful Laboratory: Working Smarter (11/20 AM)

Short Courses

- Quantitative Lab Skills for the Modern Analyst (11/18)
- Data Analysis with EXCEL[®] for Improved Productivity in the Analytical Laboratory: New Uses for a Familiar Tool (11/19)
- The Art of Managing a High Performance Laboratory (11/20 AM)

Workshops

- Acquiring the Skills of a New Manager (11/18 AM)

LIQUID CHROMATOGRAPHY

Technical Sessions

- Carbon Dioxide-Based HPLC: Modern SFC (11/18 AM)
- Recent Advances and Novel Applications of UHPLC (11/18 AM)
- Poster Session: HPLC/UHPLC Techniques (11/18)
- Poster Session: Chromatography: Coupled Methods of Analysis (11/18)
- EAS Award for Outstanding Achievements in the Fields of Analytical Chemistry, Honoring Irving Wainer (11/18 PM)
- Women in Chromatography: Solving Real Life Problems (11/18 PM)
- EAS Award for Outstanding Achievements in Separation Science, Honoring Mark R. Schure (11/19 AM)

LIQUID CHROMATOGRAPHY *continued*

- Multidimensional Chromatography (11/19 PM)
- Advances in Fast and High Performance Bio-Analytical Separation Techniques (11/20 AM)
- Poster Session: Applications of HPLC and UHPLC (11/20)
- Advancements in HPLC Stationary Phases & GC Carrier Gases (11/20 PM)

Short Courses

- LC/MS: Theory, Instruments, and Applications (11/17-11/18)
- Essentials of Modern HPLC/UHPLC I and II (11/17-11/18)
- Essentials of Modern HPLC/UHPLC I: Fundamentals & Applications (11/17)
- Essentials of Modern HPLC/UHPLC II: Practice, Operation, Troubleshooting and Method Development (11/18)
- How to Develop Validated HPLC Methods: Rational Design with Practical Statistics and Troubleshooting (11/18-11/19)
- Troubleshooting Chromatographic Systems (11/19-11/20)

MASS SPECTROMETRY

Technical Sessions

- Manufacturing, Pharmaceutical and Environmental Applications of GC and GC/MS (11/18 AM)
- High Resolution Mass Spectrometry for Small and Large Molecule Characterization and Detection (11/18 PM)
- Mass Spectrometry – A Powerful Technology for the Biotech and Pharmaceutical Scientist (11/19 AM)
- New Technology for Quantitation of Intracellular Drugs in Transporter Studies (11/19 AM)
- Poster Session: GC/GC/MS (11/19)
- EAS Award for Outstanding Achievements in Mass Spectrometry, Honoring Michael L. Gross (11/19 PM)
- Drug, Biomarker and Cellular Bioanalysis (11/19 PM)

Short Courses

- LC/MS: Theory, Instruments, and Applications (11/17-11/18)
- Interpretation of Mass Spectra with Practical Solutions to Problems (11/19)

NMR SPECTROSCOPY

Technical Sessions

- NMR of Molecules: Small and Large (11/18 AM)
- Applications of NMR Spectroscopy from Small Molecules to Large Assemblies (11/18 PM)
- Structural Studies by Magnetic Resonance Spectroscopy (11/19 AM)
- EAS New Faculty Award in NMR Spectroscopy (11/19 PM)
- Applications of NMR in the Pharmaceutical Industry (11/20 AM)
- EAS Award for Outstanding Achievements in Magnetic Resonance, Honoring Dennis A. Torchia (11/20 PM)

Short Course

- NMR: Basic Theory, Spectral Interpretation and Applications (11/19)

PHARMACEUTICAL ANALYSIS

Technical Sessions

- Analytical Inhalation Session: Bringing Patients into the Lab (11/18 AM)
- Manufacturing, Pharmaceutical and Environmental Applications of GC and GC/MS (11/18 AM)
- Poster Session: Pharmaceutical Analysis: QbD, Inhalation, Solid State Techniques (11/18)
- Challenges of Impurity Quantitation in Pharmaceutical Analysis (11/19 AM)
- Poster Session: Pharmaceutical Analysis, Dissolution and Other Techniques (11/19)
- Special Topics in Chemometrics and Quality-by-Design (11/19 PM)
- USP Compendial Standards: Recent and Future Updates (11/20 AM)
- Spectroscopic Imaging for Dissolution and Pharmaceutical Development (11/20 AM)
- PAT for Continuous Manufacturing and Real-Time Release Testing (11/20 AM)
- Applications of NMR in the Pharmaceutical Industry (11/20 AM)
- Poster Session: Pharmaceutical Analysis and Separation Sciences (11/20)
- Analytical, Process, Regulatory Perspectives in Quality by Design for Biologics Development (11/20 PM)
- Physical Measurements for Pharmaceutical Products (11/20 PM)

PHARMACEUTICAL ANALYSIS *continued*

Short Courses

(Please also see MS and LC listings for additional courses)

- Physical Characterization and Analytical Test of Pharmaceutical Solids I & II: Essential Knowledge & Advanced Applications (11/17-11/18)
- Quality-by-Design: A New Paradigm for the Analytical Laboratory I & II (11/17-11/18)
- Physical Characterization and Analytical Test of Pharmaceutical Solids I: Essential Knowledge (11/17)
- Quality-by-Design (QbD): A New Paradigm for the Analytical Laboratory I: Fundamentals for Analytical Chemists (11/17)
- Qualification of Analytical Instruments for the Pharmaceutical Laboratory (11/17)
- Physical Characterization and Analytical Test of Pharmaceutical Solids II: Advanced Applications (11/18)
- Polymers: An Introduction and Characterization Techniques (11/18)
- Quality-by-Design (QbD): A New Paradigm for the Analytical Laboratory II: Design of Experiments (DOE) for Analytical Chemists (11/18)
- Data Analysis with EXCEL[®] for Improved Productivity in the Analytical Laboratory: New Uses for a Familiar Tool (11/19)
- Dissolution: A Rational Approach to Developing and Validating Methods for a Variety of Purposes (11/19)
- The Chemistry of Drug Degradation (11/19)
- Development, Validation, Verification and Transfer of Analytical Methods: A Lifecycle Approach of Analytical Methods (11/20)
- Leachables and Extractables Considerations for the Pharmaceutical Regulatory Environment (11/20 AM)
- Small Molecule Single Crystal X-Ray Crystallography in Structural Chemistry (11/20 PM)
- Pharmaceutical Cleaning Validation (11/20 PM)

RAMAN SPECTROSCOPY

Technical Sessions

- Spectroscopic Applications in Biologics (11/18 PM)
- Innovations in Forensic Drug Analysis (11/19 AM)
- Spectroscopic Applications in Biomedical Sensing (11/19 PM)
- Advanced Vibration Spectroscopy: Instrumentation and Applications (11/19 PM)

SAMPLE PREPARATION

Technical Sessions

- Poster Session: Chromatography: Coupled Methods of Analysis (11/18)
- Speeding Up Sample Preparation (11/20 PM)

Short Course

- Sample Preparation: The Chemistry Behind the Techniques (11/19)

STRUCTURAL CHEMISTRY

Technical Sessions

- Physical Measurements for Pharmaceutical Products (11/20 PM)

Short Course

- Polymers: An Introduction and Characterization Techniques (11/18)
- Small Molecule Single Crystal X-Ray Crystallography in Structural Chemistry (11/20 PM)

SUPERCritical FLUID CHROMATOGRAPHY

Technical Sessions

- Carbon Dioxide-Based HPLC: Modern SFC (11/18 AM)
- Poster Session: Chromatography: Coupled Methods of Analysis (11/18)
- SFC as an Analytical and Preparative Tool (11/18 PM)

SURFACE ANALYSIS

Technical Sessions

- Spectroscopy for Surface Science, Nano Materials and Fiber Analysis (11/18 AM)
- Spectroscopy at Surfaces and Interfaces (11/18 PM)
- Environmental Surface Chemistry (11/19 AM)

VIBRATIONAL & ELECTRONIC SPECTROSCOPY

Technical Sessions

- Spectroscopy for Surface Science, Nano Materials and Fiber Analysis (11/18 AM)
- Spectroscopic Applications in Biologics (11/18 PM)
- Applications of NMR Spectroscopy from Small Molecule to Large Assemblies (11/18 PM)
- Poster Session: Spectroscopy (11/19)
- Spectroscopic Applications in Biomedical Sensing (11/19 PM)
- Advanced Vibration Spectroscopy: Instrumentation and Applications (11/19 PM)
- What's New in NIR Analysis? (11/19 PM)
- Vibrate or Rotate - Techniques for Solving Problems with Spectroscopy (11/20 PM)

Short Courses

- Infrared Spectral (IR) Interpretation (11/20)



Plenary Lecture
Monday, November 18, 2013
4:30pm

Grand Ballroom, Double Tree Hotel

New this year we are excited to announce our
award winner of the
EAS Award for Outstanding Achievements in the
Fields of Analytical Chemistry,

Dr. Irving Wainer
National Institutes of Health

This presentation will be followed by a time of
networking and refreshments with all registrants of
EAS encouraged to attend.

Eastern Analytical Symposium & Exposition
November 18-20, 2013
Garden State Exhibit Center
Somerset, NJ
www.EAS.org
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