



November 17-19, 2025

EASTERN ANALYTICAL SYMPOSIUM & EXPOSITION

Across The Analytical Spectrum: Diversity of Scientific Ideas

Crown Plaza Princeton - Conference Center, Plainsboro, NJ

→ 4 DAYS OF SHORT COURSES → 3 DAYS OF TECHNICAL PROGRAMMING → 3 DAYS OF EXPOSITION → NETWORKING OPPORTUNITIES



2025 EAS PRELIMINARY PROGRAM

Message from the President of the Governing Board



It is my great pleasure to invite you to the 2025 Eastern Analytical Symposium (EAS), taking place November 17–19, 2025, at the Crowne Plaza Princeton–Plainsboro in New Jersey. With planning for the scientific sessions, short courses, speakers, and award events nearly complete, we are excited to present a program that promises both inspiration and practical educational opportunities.

This year's theme, "Across the Analytical Spectrum: Diversity of Scientific Ideas," celebrates the rich diversity of both our professional community and Analytical Chemistry. The most pressing challenges in science are rarely solved by a single approach or perspective. Instead, it is bringing together diverse individuals, each with their own unique life experiences, and the wide array of analytical tools and techniques that leads to the solutions to challenges facing our field.

EAS 2025 will showcase this diversity through an exciting scientific program, engaging short courses, and an exposition that highlights innovation across all facets of analytical chemistry. Whether you're interested in deepening your expertise or exploring new techniques, this year's Symposium offers valuable opportunities to learn, connect, and collaborate.

Registration will open in July, and I encourage you to make plans to attend.

I look forward to welcoming you to EAS 2025 and to our celebration of science, collaboration, and chemistry.

Matthew R. Wood, Ph.D.
2025 EAS President

Follow us on social media:



2025 Registration Types & Rates	Before Oct. 15	After Oct. 15
Full Conferee	\$330	\$495
Exposition/Networking/Posters ONLY	\$150	\$150
Wednesday Only Full Conferee (available onsite only on Nov. 19)		\$175
Full-Time Student Conferee	\$50	\$50
High School Student with Seminar (must register for a seminar)	\$0	\$0
One-Day Short Course (must register as Full Conferee in order to take course)	\$700	\$1,000
One-Day Short Course - Student Rate (must be a Full-Time Student in order to take course at Student Rate)	\$100	\$425
Two-Day Short Course (must register as Full Conferee in order to take course)	\$1,050	\$1,425
Two-Day Short Course - Student Rate* (must be a Full-Time Student in order to take course at Student Rate)	\$200	\$625

[Click here to register](#)



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2025 EAS PRELIMINARY PROGRAM

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The EAS Preliminary Program Published by the Eastern Analytical Symposium & Exposition, Inc.

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Please note our email, address, & phone number are as follows:

P.O. Box 185, Spring Lake, NJ 07762

EAS HOTLINE: 732-449-2280

Send e-mail to: askEAS@EAS.org

The Eastern Analytical Symposium & Exposition is sponsored by the Analytical Division, the North Jersey and the New York Sections of the American Chemical Society; the American Microchemical Society; the Chromatography Forum of Delaware Valley; the New York Microscopical Society; the Coblenz Society; the Delaware Valley, New England, & New York Sections of the Society for Applied Spectroscopy; the Association of Laboratory Managers; the New Jersey Association of Forensic Scientists; and the Chinese American Chromatography Association.

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Eastern Analytical Symposium & Exposition, Inc. reserves the right, without notice, to modify the material or schedules, as well as to amend the roster of presenters or instructors.

EAS General Information & Schedule

Technical Sessions

All oral & poster technical sessions are held in the Crowne Plaza Conference Center. Room assignments for the various sessions are located in the Final Program.

Schedule

Oral Technical Sessions

Monday - Tuesday

9:00am-11:30am; 1:30pm-4:00pm

Wednesday

9:00am-11:30am; 1:00pm-3:00pm

Special Lectures

Monday

7:30am – Breakfast Lecture Part 1
Dr. Kate Jackson, Colegate Palmolive & Dr. Monica Joshi, University of West Chester PA

4:15pm Keynote Lecture

Dr. Ashley Ross, University of Cincinnati

Tuesday

7:30am – Breakfast Lecture Part 2
Dr. Erin Ennis, FMC Corporation & Dr. Anastasia Andrianova, Agilent

1:15pm EAS Award Session

Schedule

Electronic Poster Sessions

Posters are displayed only on the designated day of the poster session.

Monday & Tuesday Session 1

Poster Set-Up: 9:00am-10:00am

Displayed: 10:00am-12:25pm

Authors Available: 11:30am-12:25pm

Posters Removed: 12:25pm

Monday & Tuesday Session 2

Poster Set-Up: 9:00am-10:00am

Displayed: 12:30pm-4:00pm

Authors Available: 12:30pm-1:25pm

Posters Removed: 4:00pm

Wednesday

Poster Set-Up: 9:00am-10:00am

Displayed: 10:00am-3:00pm

Authors Available: 12:30pm-1:15pm

Posters Removed: 1:30pm

EAS Short Courses

You must pick up your Full Conferee registration information prior to going to the short course.

Sunday - Wednesday

8:30am to 5:00pm

Professional Development Workshops

An EAS registration is required to attend these workshops. Pre-registration is requested.

Friday, Nov. 7 (via Zoom)

12:00pm to 1:00pm

Wednesday, Nov. 12 (via Zoom)

12:00pm to 1:00pm

Monday, November 17 (Onsite)

12:00pm to 1:00pm

Tuesday, November 18 (Onsite)

12:00pm to 1:00pm

Employment Bureau

Virtual Employment Bureau! See details in this program.

Seminars for High School Teachers and Students

Pre-registration is required.

Sunday

(High School Teachers only)

1:00pm to 4:00pm

Tuesday & Wednesday

10:00am to 12:00pm

Attendee Registration Hours

Sunday

Short Course: 7:30am - 9:00am

All attendees: 3:00pm - 5:00pm

Monday

7:00am - 5:30pm

Tuesday

7:00am - 5:30pm

Wednesday

8:00am - 3:00pm

Exposition Schedule

Sunday

Open for exhibitor set-up only

Monday

Hours: 10:00am to 6:30pm

There will be Keynote Reception in the Expo Rooms from 5:15pm-6:30pm.

Tuesday

Hours: 10:00am to 5:30pm

There will be a special Mixer in the Expo Rooms from 4:30pm-5:30pm.

Wednesday

Hours: 10:00am to 1:00pm

Exhibitor Registration Desk Hours

Sunday

8:00am to 6:00pm

Monday

8:30am - 5:30pm

Tuesday

8:30am - 4:30pm

Wednesday

8:30am - 8:30pm

Camera & Cell Phone Use

The use of cameras and cell phones is not permitted during program sessions. Cameras are permitted on the exhibit floor; however, permission from the exhibitors involved must be obtained before photographs may be taken.

Badges

Your badge is your admission to many of the activities at the 2025 EAS. Please make sure that you remember to bring it with you when you come to the meeting. There is a \$25 fee for the processing of lost or misplaced badges. Badges are non-transferable.

More Information

EAS Hotline: 732-449-2280

EAS E-mail: askEAS@EAS.org

Website: eas.org

Eastern Analytical Symposium & Exposition Inc.

PO Box 185,

Spring Lake, NJ 07762

2025 EAS CONFERENCES-IN-MINIATURE

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

EAS AWARD SESSION November 18; 1:30pm – 4:00pm

Technical Session

- EAS Award for Outstanding Achievements in the Fields of Analytical Chemistry, Honoring **David S. Hage**, University of Nebraska-Lincoln
- EAS Award for Outstanding Achievements in Separation Science, Honoring **Nicholas Snow**, Seton Hall University
- EAS Award for Outstanding Achievements in Mass Spectrometry, Honoring **Ljiljana Paša-Tolić**, Pacific Northwest National Laboratory
- EAS Award for Outstanding Achievements in Magnetic Resonance, Honoring **Lewis Kay**, University of Toronto
- EAS Award for Outstanding Achievements in Chemometrics, Honoring **Karl Booksh**, University of Delaware
- EAS Young Investigator Award, Honoring **Katelynn Perrault Uptmor**, College of William and Mary

BIOANALYSIS

Technical Sessions

- Translational Proteomics and Bioanalysis: From Biomarkers to Biotherapeutics (11/19 AM)
- Next-Generation Analysis for Emerging Biopharmaceutical Modalities (11/19 PM)

Short Courses

- LA-ICP-MS: Theory, Practice, and Environmental and Biological Applications (11/16)
- Practical Bioanalytical Method Validation by LC-MS/MS (11/18)

CHEMOMETRICS / MACHINE LEARNING

Technical Sessions

- Advanced Chemometric Approaches for Hyperspectral Images (11/17 AM)
- Demystifying Machine Learning: A Tutorial on Multivariate Analysis (11/19 AM)

Short Courses

- Introduction to Data Analytics for Analytical Chemists (11/18)
- Chemometrics without Equations (or Hardly Any) (11/17)

CHROMATOGRAPHY

Technical Sessions

- Powerful BioPharma Separations Without the Use of a Column (11/17 AM)
- Multidimensional Separations for Complex Sample Analysis (11/17 AM)
- Supercritical Fluids as Sustainable Solvents (11/17 PM)
- Sustainable Separations and Sensors (11/18 AM)
- Modern HPLC Approaches: Method Optimization, Sustainability, and Selectivity (11/18 AM)
- Use of Novel Chromatography to Advance Pharmaceutical Research for Drug Discovery and Development (11/19 AM)
- Predictive Sciences for Chromatographic Method Development (11/19 AM)
- Gas Chromatography and Mass Spectrometry for Environmental, Regulatory, and Multicomponent Sample Analysis (11/19 PM)

Short Courses

- Chromatographic Methods of Analysis of Oligonucleotides, siRNA, sgRNA and mRNA (11/16)
- HPLC and UHPLC for Practicing Scientists 1 and 2: Fundamentals, Method Development, and Troubleshooting (11/16-11/17)
- Practical LC-MS/MS Method Development and Sample Preparation (11/16-11/17)
- Getting the most from GC and GC/MS (11/17)
- Data Analysis Skills for Chromatographers (11/17)
- Systematic HPLC Troubleshooting (11/18)

CONSERVATION SCIENCE

Technical Sessions

- Characterization of Cultural Heritage Objects (11/19 AM)
- Green Technology for Heritage Conservation (11/19 PM)

ENVIRONMENTAL ANALYSIS

Technical Sessions

- Environmental Aspects & Analyses of PFAS & Microplastics (11/18 AM)
- From Green Chemistry to Field Detection: New Solutions in Applied Analytical Science (11/18 AM)
- Analytical Innovation for Complex Materials and Emerging Contaminants (11/19 AM)

Short Course

- PFAS - A Wonder Chemical Which Became a Nightmare

FORENSIC ANALYSIS & MICROSCOPY

Technical Sessions

- Research from our Emerging Forensic Scientists (11/17 AM)
- Advances in Forensic Chemistry: Solving Practical Challenges in the Crime Lab (11/17 PM)
- Advances in Field-Ready Analytical Tools for Forensic Drug and Trace Evidence Analysis (11/18 AM)
- Industrial Microscopy (11/19 PM)

LABORATORY MANAGEMENT & EDUCATION

Technical Session

- Struggles in Management (11/17 AM)

Short Courses

- Successfully Implementing Key Elements of the USP and ICH Guidances in an Enhanced Analytical Procedure Development Workflow (11/16)
- How to Deliver a Winning Technical Presentation (11/17)
- Introduction to Data Analytics for Analytical Chemists (11/18)

MASS SPECTROMETRY

Technical Sessions

- Harnessing Imaging Mass Spectrometry for Enhanced Drug Development (11/17 AM)
- Small Molecule Characterization and Protein Conformational Studies by Ion Mobility Mass Spectrometry (11/17 PM)
- Mass Spectrometry and Chromatographic Techniques for Biomarkers, Drug Monitoring and Environmental Contaminants (11/18 AM)

Short Courses

- LA-ICP-MS: Theory, Practice, and Environmental and Biological Applications (11/16)
- Practical LC-MS/MS Method Development and Sample Preparation (11/16-11/17)
- Getting the most from GC and GC/MS (11/17)
- Practical Bioanalytical Method Validation by LC-MS/MS (11/18)

PHARMACEUTICAL ANALYSIS

Technical Sessions

- Analytical Risk Management and Regulatory Strategies for Method Development and Compliance (11/17 AM)
- Enabling the Design of Complex Drug Products from Advanced Spectroscopic and Imaging Analysis (11/17 PM)
- Analytical Strategies for Nitrosamines and Impurity Control in Pharmaceuticals (11/17 PM)
- Pharmaceutical Companies & Compound Pharmacies – A Comparison Between the Analytical Testing Practices for Each Industry (11/18 AM)
- Innovation Meets Regulation: How to Make our Life Better and Safer (11/17 PM)
- PAT, It's What You Don't See that Counts! (11/19 AM)

Short Courses

- Process Analytical Technology: Out of the Lab and into the Line (11/16)
- Successfully Implementing Key Elements of the USP and ICH Guidances in an Enhanced Analytical Procedure Development Workflow (11/16)
- Analytical Method Validation and Lifecycle Management – FDA, ICH and USP Expectations (11/17)
- ATP: An Introduction and its Strategic Link to Quality Target Product Profile and Analytical Life Cycle Management (11/18)
- An Overview of Drug Development, Drug Quality, Regulatory, and Quality Control Processes (11/18)

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

SPECTROSCOPY

Technical Sessions

- Better Together: Solving Difficult Problems by Combining Vibrational Spectroscopy with Other Techniques (11/17 AM)
- Providing Industry with Practical Analytical Chemistry Skills (11/17 PM)
- Spectroscopy and Sensors for Complex Materials and Environmental Systems (11/17 PM)
- **New York/New Jersey Section of the Society for Applied Spectroscopy Gold Medal Award, Honoring Geraldine Richmond, University of Oregon (11/18 AM)**
- New Strategies for Atomic Spectrometry (11/19 AM)
- Prepare for Anything: Infrared Sampling Tools and Techniques for Unusual (and Usual) Samples (11/19 PM)
- Imaging and Vibrational Techniques for Spatial and Chemical Profiling (11/19 PM)

SPECTROSCOPY *continued*

Short Courses

- Practical NMR Spectroscopy (11/16)
- Introduction to Quantitative Spectroscopy for Quality Assurance in the R&D and Manufacturing Environments (11/16)
- Collecting Infrared Spectra and Avoiding the Pitfalls (11/18)
- Real-Time Insights into Electrochemical Reactions: Operando/In-Situ Raman and Optical Imaging (11/18)

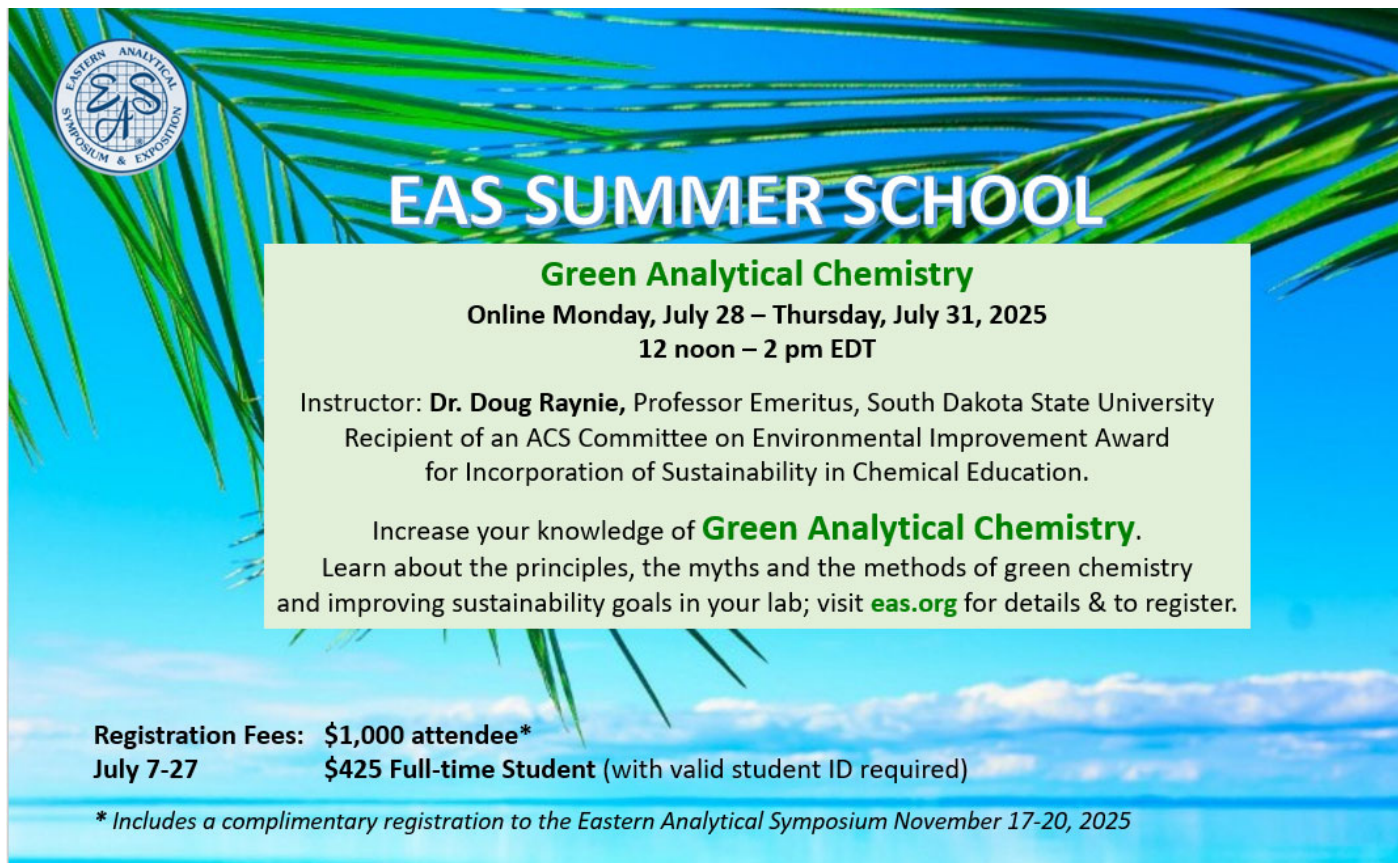
KEYNOTE LECTURE


Exploring New Frontiers in Neurochemical Detection Along the Gut-Brain-Immune Axis
Dr. Ashley Ross, University of Cincinnati
(11/17 PM)

BREAKFAST LECTURES

Career Options for Women Chemists Part I (11/17 AM)
Kate Jackson, Colgate Palmolive Company
Monica Joshi, West Chester University of PA

Career Options for Women Chemists Part II (11/18 AM)
Erin Ennis, FMC Corporation
Anastasia Andrianova, Agilent



 **EAS SUMMER SCHOOL**

Green Analytical Chemistry
Online Monday, July 28 – Thursday, July 31, 2025
12 noon – 2 pm EDT

Instructor: **Dr. Doug Raynie**, Professor Emeritus, South Dakota State University
Recipient of an ACS Committee on Environmental Improvement Award
for Incorporation of Sustainability in Chemical Education.

Increase your knowledge of **Green Analytical Chemistry**.
Learn about the principles, the myths and the methods of green chemistry
and improving sustainability goals in your lab; visit eas.org for details & to register.

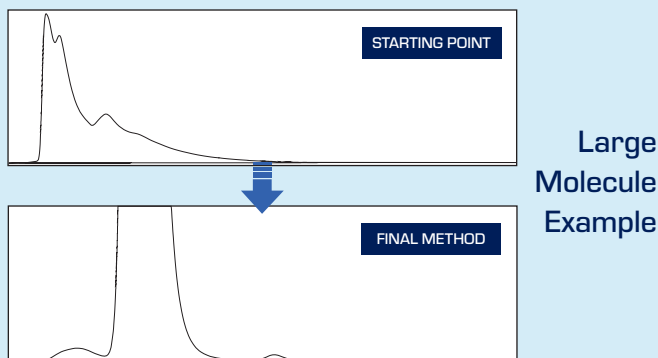
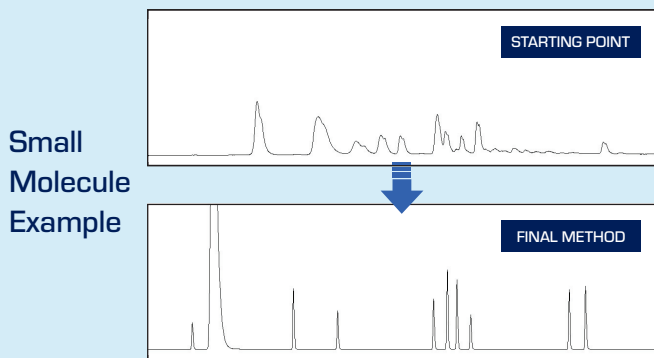
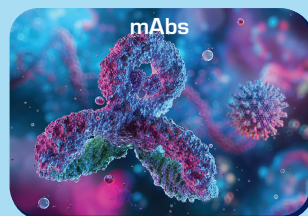
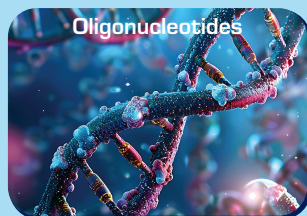
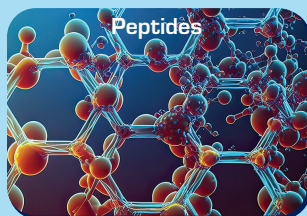
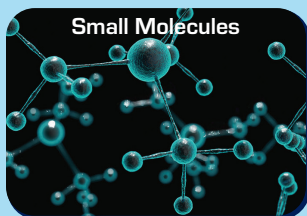
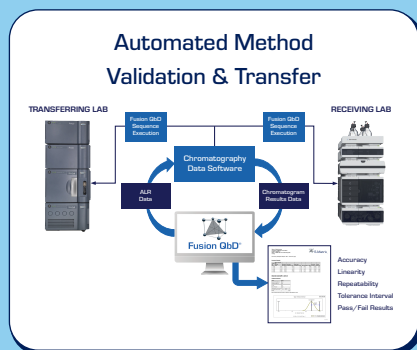
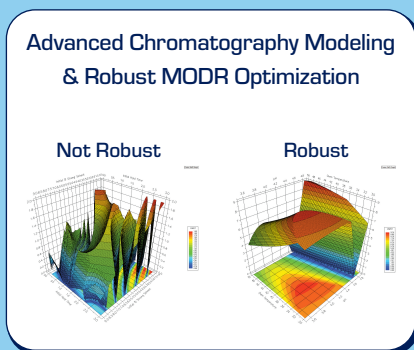
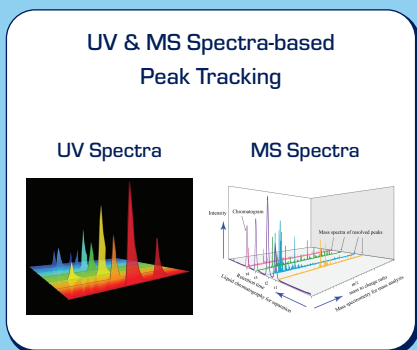
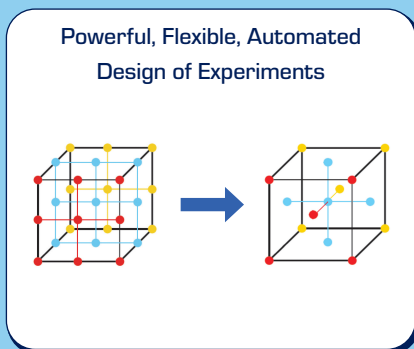
Registration Fees: \$1,000 attendee*
July 7-27 \$425 Full-time Student (with valid student ID required)

* Includes a complimentary registration to the Eastern Analytical Symposium November 17-20, 2025

Fusion QbD®

Analytical QbD Software for the Development, Validation, & Transfer of Analytical Methods

- Liquid Chromatography
- Gas Chromatography
- Capillary Electrophoresis
- Sample Preparation
- Replication Strategy



2025 Preliminary Technical Oral Program

Here is the preliminary list of oral invited and contributed sessions. The Poster Sessions will be announced in September. It is not too late to submit an abstract for a **poster** presentation! The deadline is September 1st. Visit our submission site for more details and to submit: www.EAS.org/asubmit

MONDAY MORNING, NOVEMBER 17

BREAKFAST LECTURE

Sponsored by ACCTA, Inc.
Monday, November 17, 7:30 AM

Career Options for Women Chemists Part 1
Dr. Kate Jackson, Colgate Palmolive Company
Dr. Monica Joshi, West Chester University of PA

All registered Full Conferees & Full-Time Student Conferees are invited to attend.
A light breakfast will be offered before the lecture.

Time	Title, Author(s)
Powerful Biopharma Separations Without the Use of A Columns <i>Sponsored by Chromatography Forum of DE Valley</i> Chair: Ray McLain, Merck & Co., Inc.	
9:00am	Demystifying AUC: A Multi-Attribute Platform Technology for Biologics, Lake Paul, BioAnalysis LLC
9:30am	AF4 Method Development for Vaccine Analysis, Troy Halseth, Merck & Co., Inc.
10:00am	Break
10:30am	A Tale of Tails: Using the Power of Capillary Electrophoresis for the Analytical Characterization of mRNA, Deanna Di Grandi, Regeneron
11:00am	RNA on the Run: Sprinting to Separation with Ion Mobility, Marcelino Varona-Ortiz, Genentech

Multidimensional Separations for Complex Sample Analysis <i>Sponsored by ACS Division of Analytical Chemistry</i> Chair: James Grinias, Rowan University	
9:00am	<i>Understanding Olefin Content in Complex Samples via Multidimensional Separations</i> , Petr Vozka, University of California-Los Angeles
9:30am	<i>Monitoring Time Course Trends of Food Spoilage in Tomato Samples with GCxGC and ChromaTOF Sync Alignment Software</i> , Elizabeth Humston-Fulmer, Joseph Binkley, LECO Corporation
10:00am	Break
10:30am	<i>An Online Multiplex Platform for Mapping the Future with mRNA Quality Attributes</i> , Daniel Nguyen, Genentech
11:00am	<i>Multidimensional Chromatography as a Tool for Enhanced Separation in Cannabis and Natural Products</i> , Twinkle Paryani, Abstrax

Research from our Emerging Forensic Scientists <i>Sponsored by New Jersey Association of Forensic Scientists</i> Chair: Monica Joshi, West Chester University of PA	
9:00am	<i>The Application of ATR-FTIR Spectroscopy for the Identification of Cosmetic Foundations on Cloth Using Discriminant Function Analysis</i> , Jaden Force, Towson University
9:30am	<i>Development of a Method to Analyze Water Samples for Odor Associated with Submerged Remains</i> , Virginia Weina, William & Mary
10:00am	Break
10:30am	<i>Illicit Pill Profiling: Chemical Trends in Fentanyl Tablets from the Southwest Border</i> , Macenzie Powell, Mandi Mohr, Barry Logan, MJ Menendez, Mia Borrelli, Alexandra Kuchinos, Madison Schackmuth, The Center for Forensic Science Research & Education
11:00am	<i>Direct Analysis in Real Time- Mass Spectrometry as a Technique for Rapid Drug Analysis and Near Real-Time Surveillance of the Illicit Drug Landscape</i> , Elise Pyfrom, National Institute of Standards and Technology

Advanced Chemometric Approaches for Hyperspectral Imaging <i>Sponsored by SAS Delaware Valley</i> Chairs: Caelin Celani, Helder Carneiro, University of Delaware	
9:00am	<i>Photothermal Infrared Hyperspectral Microscopy using Consensus Equilibrium for Model Fusion</i> , Garth Simpson, Purdue University
9:30am	<i>Machine Learning and Hyperspectral Imaging to Accelerate Pharmaceutical Process Development</i> , Joseph Smith, Merck & Co., Inc.
10:00am	Break
10:30am	<i>Clustering Hyperspectral Spectra via Spectral (Subspace) Clustering</i> , David Hong, University of Delaware
11:00am	<i>Mapping Strain Effects in 2D Ga₂Se₂ via Hyperspectral Imaging</i> , Livliv Anton, Oak Ridge National Laboratory

2025 Preliminary Technical Oral Program

Monday Morning continued

Better Together: Solving Difficult Problems by Combining Vibrational Spectroscopy with Other Techniques Chair: Nancy Jestel, SABIC	
9:00am	<i>Assessing Drug Product Structure after Induced Stresses by Raman Spectroscopy and cIEF/MS</i> , Diana Novo, Johnson and Johnson
9:30am	<i>Monitoring the Imidization of Poly(amide acid) Films by TGA-IR</i> , Michael Hall, SABIC
10:00am	Break
10:30am	<i>Regenerative Electroactive Self-Assembled Layers: A Spectroscopic and Mechanistic Investigation on Reversible Non-Covalent Interactions</i> , Nico Maldonado, University of Chicago
11:00am	<i>Capturing Transformations in Soft-Matter via Mashups of Rheology, Raman Spectroscopy and Optical Microscopy</i> , Kalman Migler, National Institute of Standards and Technology

Harnessing Imaging Mass Spectrometry for Enhanced Drug Development Chair: Ines Santos, Bristol Myers Squibb	
9:00am	<i>Mitigating Kidney Toxicity Risk and Prioritizing Drug Candidates Using MALDI Mass Spectrometry Imaging</i> , Bingming Chen, Merck & Co., Inc.
9:30am	<i>Technological Advances in Desorption Electrospray Ionization (DESI) Imaging: From Tissue Towards Cells</i> , Bindesh Shrestha, Waters Corporation
10:00am	Break
10:30am	<i>Implementation of DESI-MSI as a Shared Resource for Untargeted and Targeted Small Molecule Analysis</i> , Christina Ferreira, Purdue University
11:00am	<i>Mass Spectrometry Imaging in Pharma: Current State of Drug Quantification and Spatial Multi-Omics Imaging at GSK</i> , William Hardesty, GSK

Struggles in Management Chair: Denis Swijter, ALMA	
9:00am	<i>Conflict Resolution</i> , Scott Hanton, Lab Manager Magazine
9:30am	<i>The Changing Workforce</i> , Catherine Smith, ASR (Arkema)
10:00am	Break
10:30am	<i>Dealing with Difficult People</i> , Dwayne Henry, Montgomery College

Analytical Risk Management and Regulatory Strategies for Method Development and Compliance Chair: Mariann Neverovitch, Bristol Myers Squibb	
9:00am	<i>Don't Ignore These Warning Signs of Potential Phase 3 Analytical Validation Failures</i> , Michael Spangler, Spangler Consulting LLC
9:20am	<i>Analytical Target Profile: An Introduction and its Strategic Link to Quality Target Product Profile and Analytical Life Cycle Management</i> , Partha Mukherjee, Amicus Therapeutics
9:40am	<i>Mapping Key Elements in the Current ICH and USP Guidances to an Enhanced Workflow for Analytical Procedure Development</i> , Richard Verseput, S-Matrix Corporation
10:00am	Break
10:30am	<i>Simultaneous Targeted, Non-Targeted Per- and polyfluoroalkyl Substances (PFAS) Screening as Part of Extractables Screening for Pharmaceutical Packaging, Manufacturing Components, and Medical Device by LC-HRAM-MS</i> , Rajesh Chennamshetti, SGS Pharma
10:50am	<i>Optimizing Trace Metals Analysis: Advanced Sample Preparation and Microwave Digestion Techniques for Food and Environmental Samples</i> , Alicia Stell, Elaine Hasty, Macy Harris, CEM Corporation
11:10am	<i>Batch Process Understanding (BPU) Refines a Method for Process Patent Protection (PPP) via Natural-Abundance Stable Isotopes</i> , John Jasper, Molecular Isotope Technologies, LLC, Anthony Sabatelli, Wiggin and Dana LLP, Ann Pearson, Department of Earth and Planetary Sciences

MONDAY AFTERNOON, NOVEMBER 17

Supercritical Fluids as Sustainable Solvents Sponsored by Chromatography Forum of DE Valley Chair: Mary Ellen McNally, FMC Corporation	
1:30pm	<i>Beyond Conventional Methods: Leveraging SFC for Faster, Greener and More Efficient Pharmaceutical Analysis</i> , Michael Hicks, Merck
2:00pm	<i>Development and Validation of a Supercritical Fluid Chromatographic Method for Quantitation of the Active Enantiomer in Indoxacarb End-Use Product</i> , Xiaoyan Wang, Danielle Sasdelli, Emily Gabriele, Mary Ellen McNally, FMC Corporation
2:30pm	Break
3:00pm	<i>High Throughput Analysis Applications Using SFC/MS</i> , Bill Farrell, Virscidian
3:30pm	<i>Multi-Target Surrogate Optimization for Supercritical Fluid Extraction - Supercritical Fluid Chromatography - Mass Spectrometry of Drug Compounds</i> , Kevin Schug, University of Texas-Arlington

2025 EAS Preliminary Technical Oral Program

Monday Afternoon continued

Providing Industry with Practical Analytical Chemistry Skills <i>Sponsored by SAS New England</i> Chair: Ellen Miseo, Miseo Consulting	
1:30pm	<i>Hard and Soft Skills I Rely on but Don't Remember Being Taught in School</i> , Nancy Jestel, SABIC
2:00pm	<i>The Depth of the Undergraduate Lab Experience at a Large University</i> , Zachary Rhoden, The Pennsylvania State University
2:30pm	Break
3:00pm	<i>Preparing Undergraduates for Next Steps Beyond College: What's the Same and What's Changed after 25+ Years at a Small Liberal College</i> , Mary Kate Donais, Saint Anselm College
3:30pm	<i>Education is Everyone's Responsibility, Especially the Societies</i> , Ellen Miseo, Miseo Consulting

Small Molecule Characterization and Protein Conformational Studies by Ion-Mobility Mass Spectrometry Chair: Srinivas Chakravartula, Rutgers University	
1:30pm	<i>Mapping your Life and Everything Else: The Promise of High Dimensional Phenomics</i> , John McLean, Vanderbilt University
2:00pm	<i>Lipidomics Analysis Reveals the Role of Diacyl-Phosphatidylcholine in Ferroptosis</i> , Fereshteh Zandkarimi, Columbia University
2:30pm	Break
3:00pm	<i>Advancements in Ion Mobility Spectrometry Measurements for Native Protein Mass Spectrometry</i> , Rachel Buckley, Rutgers University
3:30pm	<i>Protein Charge State Confirmation Studies on LC-ESI-MS vs Ion Mobility Mass Spectrometry</i> , Srinivas Chakravartula, Rutgers University

Advanced Spectroscopic and Imaging Tools Enabling the Design of Complex Drug Products Chair: Maple Wang, Yongchao Su, Merck & Co., Inc.	
1:30pm	<i>Interfacial Phenomena in Lipid Nanoparticle (LNP) Systems</i> , Yulia Eygeris, Oregon State University
2:00pm	<i>Innovative Techniques to Unravel the Needle Clogging for High Concentration Formulation Delivery</i> , Guangli Hu, Merck & Co., Inc.
2:30pm	Break
3:00pm	<i>Image-Based IVR Prediction and Microstructure Synthesis for Controlled Release Product Design</i> , Shawn Zhang, DigiM Solution LLC
3:30pm	<i>Quantitative Morpho-Chemical Imaging of Subvisible Particles in Biopharmaceutical Formulations</i> , Dan Fu, University of Washington

Advances in Forensic Chemistry: Solving Practical Challenges in the Crime Lab Chair: Tom Brettell, Cedar Crest College	
1:30pm	<i>Polydrug Case Examples containing Novel Psychoactive Substances (NPS) in the United States Drug Supply</i> , Mia Borrelli, The Center for Forensic Science Research & Education
2:00pm	<i>Applications of Chemometrics to NPS Drug Analysis</i> , Jennifer Bonetti, Virginia Department of Forensic Sciences
2:30pm	Break
3:00pm	<i>Advancing Nontargeted Analysis with GCxGC Using a Sustainable Approach</i> , Kira Fisher, William & Mary College
3:30pm	<i>Forensic Applications Using GC/FTIR with Light Pipe Technology to Acquire Infrared Vapor Phase Spectra</i> , Lewis Smith, County of Cape May Prosecutor's Office Forensic Laboratory

Analytical Strategies for Nitrosamines and Impurity Control in Pharmaceuticals Chair: Oscar Liu, Silver Spring Scientific LLC	
1:30pm	<i>Nitrosamines: Explaining Why Ranitidine HCl Degrades in the Solid State</i> , Eric Munson, Jianchao Xu, Purdue University
1:50pm	<i>Establishing a Robust Analytical Technique for Ultralow Nitrite Detection and Quantification in Pharmaceutical Excipients</i> , Syamantak Roy, Kelly Blundin, Edward Mularz, Junyong Jo, Merck & Co., Inc.
2:10pm	<i>LC-MS Screening of Nitrosamines using Superficially Porous Particle Columns</i> , Stephanie Schuster, Joshua McBee, Conner McHale, Peter Pellegrinelli, Advanced Materials Technology, Inc.
2:30pm	Break
3:00pm	<i>A Holistic Approach to Life Cycle Management of Nitrosamine Drug Substance Related Impurity in Pharmaceutical Products: Guidance and Case Study</i> , Partha Mukherjee, Xin Yao, Sheela Sitaraman, Jon Brudvig, Jeff Castelli, Saroj Ramdas, Amicus Therapeutics
3:20pm	<i>Using High pH LCMS Conditions for Impurity Characterization of GLP-1 Therapeutics</i> , Joshua McBee, Barry Boyes, Advanced Materials Technology
3:40pm	<i>Reliable Analysis of Genotoxic Impurities Using Ultrahigh-Resolution MRR</i> , Alexander Mikhonin, Dreka Burgess, Voislav Blagojevic, Ann Adele Byers, Reilly Sonstrom, Steven Shipman, Justin Neill, BrightSpec, Inc.

2025 Preliminary Technical Oral Program

Monday Afternoon continued

Innovation Meets Regulation: How to Make our Life Better and Safer Chair: Jason Shen, Insmad Inc.	
1:30pm	<i>Pharmaceutical Regulations: An Overview for the Analytical Chemist</i> , Leon Doneski, Arcutis Biotherapeutics
2:00pm	<i>Regulatory Considerations of Analytical Testing to Support the Development of Combination Products</i> , Keith Faucher, Aura Bioscience
2:30pm	Break
3:00pm	<i>How Transformative New Software Solutions Are Elevating Quality and Compliance</i> , Tracy Hibbs, Waters Corporation
3:30pm	<i>Navigating the Future - Some Regulatory Considerations for Implementing Innovative Analytical Technologies in Pharmaceutical Manufacturing</i> , Ting Wang, Amgen

Spectroscopy and Sensors for Complex Materials and Environmental Systems Chair: Shirley Fischer-Drowos, Widener University	
1:30pm	<i>Lego Blocks and Raman Spectroscopy: Evaluation of Advanced Data Collection Techniques</i> , Richard Crocombe, Crocombe Spectroscopic Consulting, Peter Larkin, Syensqo, Pauline Leary, Noble, Inc., Noble, Inc., Mary Kate Donais, St. Anselm's College
1:50pm	<i>Analytical and NMR Studies on the Photodegradation of Plant Chromophores</i> , Kamrun Nahar, Serah Essang, Akshaya Iyer, Alexander Greer, Brooklyn College
2:10pm	<i>Composition and Structure of Fluorinated Polymers in the Molten State by High Temperature Static NMR</i> , Alexander Marchione, Michael Davis, Chemours
2:30pm	Break
3:00pm	<i>Nondestructive Measurement of Doping Profile and Transition Layers by T-Ray Pump-Probe Spectroscopy</i> , Anis Rahman, Applied Research & Photonics, Inc.
3:20pm	<i>Sorption and Desorption of 17alpha-ethinylestradiol and beta-estradiol on Montmorillonite Clay and Nylon Microparticles Using Fluorescence Detection</i> , Christian Manuelli, Shouwei Cai, University of Massachusetts-Dartmouth
3:40pm	<i>Facile Synthesis of Layered Superparamagnetic Fe₃O₄-MoS₂ Nanosheets on Chitosan for Efficient Removal of Chromium and Ciprofloxacin from Aqueous Solutions</i> , Amjad Mumtaz Tahir Khan, Aligarh Muslim University

KEYNOTE LECTURE

*Sponsored by Fred and David Bickford, Sue Evans Norris
In Honor of Dr. Fred A. Bickford and Monroe H. Evans
Monday, November 17, 4:15pm*

*Exploring New Frontiers in Neurochemical Detection Along the Gut-Brain-Immune Axis
Dr. Ashley Ross, University of Cincinnati*

*All registered Conferees, Attendees and Exhibitors are invited to attend.
A reception will be held immediately following the lecture.*

TUESDAY MORNING, NOVEMBER 18

BREAKFAST LECTURE

Tuesday, November 18, 7:30 AM

*Career Options for Women Chemists Part 2
Dr. Erin Ennis, FMC Corporation
Dr. Anastasia Andrianova, Agilent*

*All registered Full Conferees & Full-Time Student Conferees are invited to attend.
A light breakfast will be offered before the lecture.*

Time	Title, Author(s)
New York/New Jersey Section of the Society of Applied Spectroscopy Gold Medal Award Honoring Geraldine Richmond, University of Oregon Chairs: Deborah Peru, DP Spectroscopy and Training, LLC, Gabrielle Davis, Camfil USA Inc.	
9:00am	<i>"Lights, Action, Camera: Spectroscopy on the Edge,"</i> Geraldine Richmond, University of Oregon
9:30am	<i>When is it Good Enough? Rethinking Spectrometers as Fit for Purpose Analyzers and Meters</i> , Adam Hopkins, Metrohm USA
10:00am	Break
10:30am	<i>Under Pressure. Unraveling Liquid Monopropellant Combustion Mechanisms with Optical Emission Spectroscopy</i> , Rob Walker, Montana State University
11:00am	<i>Structured Water and Surface Potential at Aqueous Interfaces</i> , Dennis Hore, University of Victoria

2025 Preliminary Technical Oral Program

Tuesday Morning continued

Sustainable Separations and Sensors Sponsored by Seton Hall University Chair: Nicholas Snow, Seton Hall University	
9:00am	Taming Odor: Investigating Odor Measurement and Control, Kevin Schug, University of Texas-Arlington
9:30am	Nanocarbon-Mediated Separations, from Microscale Analytical Techniques to Industrial-Scale Production, Somenath Mitra, New Jersey Institute of Technology
10:00am	Break
10:30am	Good Taste: Field-Deployable Methods and Devices for Determination of Smoke Taint in Wine Grapes, Vincent Remcho, Oregon State University
11:00am	Fast Direct MS Screening with Chromatography/MS Confirmation with a Single SPME Device, Janusz Pawliszyn, Wei Zhou, University of Waterloo

Pharmaceutical Companies & Compound Pharmacies – A Comparison Between the Analytical Testing Practices for Each Industry Chair: Michael McGinley - Sohve/Pharma Consulting	
9:00am	Analytical Science and Quality at the intersection of Pharma and Compounding Pharmacies, Michael McGinley, Sohve/Pharma Consulting
9:30am	The Future of Quality Microbial Testing: Advanced Imaging and Robotics for High-Throughput Analysis, Partha Chandrakesan, Core Environmental Monitoring Lab
10:00am	Break
10:30am	Analyzing Analytical Compendial Testing Requirements: A Comparison Across Regulatory Categories for Compounded Medications, Stephen Hoag, University of Maryland, Baltimore, School of Pharmacy
11:00am	Harmonizing Analytical and Regulatory Considerations between Pharma and Compound Pharmacies, Teresa Spann, Fagron

From Green Chemistry to Field Detection: New Solutions in Applied Analytical Science Chair: Shelby Zangari	
9:00am	<i>Multiplatform Approach for Lithium-Ion Battery Electrolyte Compositional Analysis; Decoding Volatile, Organic, and Elemental Composition of Unknown Electrolyte Sample</i> , Christine Rivera, Aimei Zou, Yu-Feng Zhang, Olivier Chevallier, Agilent Technologies
9:20am	<i>DOZN™ 3.0 - A Quantitative Green Chemistry Evaluator for Sustainable Future</i> , Ettigounder (Samy) Ponnusamy, MilliporeSigma
9:40am	<i>Incorporating Ultrashort-Chain Compounds into the Comprehensive Analysis of PFAS in Potable and Non-Potable Waters</i> , Justin Steimling, Shun-Hsin Liang, Restek Corporation
10:00am	Break
10:30am	<i>Developing an Electrochemiluminescence Biosensor in an Inexpensive Microfluidic Device</i> , Kira Rahn, Jasper Percy-Kahn, Athena Antippas, Kieran Cross, Edith Mauch, Middlebury College
10:50am	<i>Low Concentration Narcotic Detection Utilizing SERS Handheld Devices in Conjunction with Raman Microscopy</i> , Ari Darlow, Alexander Rzhnevskii, ThermoFisher
11:10am	<i>LUMA Real-World Examples of Solving Pharmaceutical Challenges</i> , Rafael Acosta, VUV Analytics

Advances in Field-Ready Analytical Tools for Forensic Drug and Trace Evidence Analysis Chair: Lydia Breckenridge, Bristol Myers Squibb	
9:00am	<i>Illicit Drug Analysis in the Field with a Portable Instrument "Toolkit,"</i> Desmond Brown, Brooke Kammrath, Ella Galvan, Mei Yuan, Ashlyn Evans, Samuel Friday, Drew Kuroda, Alexander Klein, Jessica Persechino, Jessica Behn, University of New Haven, John Naples, Connecticut State Police, Debbie Fuller, Refana, Isabelle Radgen-Morvant, NIRLAB, Richard Crocombe, Crocombe Spectroscopic Consulting, Pauline Leary, NOBLE
9:20am	<i>GCMS Analysis of Street Drugs Utilizing Hydrogen Carrier Gas in Combination with a HydroInert EI Source</i> , Kirk Lokits, Agilent Technologies
9:40am	<i>Analysis of New and Aged Bones by X-Ray Fluorescence Spectroscopy for Potential Estimation of Post-Mortem Interval</i> , Michael Brown, Jacob Pate, Trinity Green, The University of Memphis
10:00am	Break
10:30am	<i>Differentiation and Identification of Fentanyl Analogues Using Portable Mass Spectrometry</i> , Mei Yuan, Marisia Fikiet, Brooke Kammrath, University of New Haven, Jeff Johnson, Seth Fisher, Astrotech Technologies, Inc., Richard Crocombe, Crocombe Spectroscopic Consulting, Don Ostrowski, Pauline Leary, NOBLE
10:50am	<i>GC-MS Analysis of Medetomidine Using S-TPC Derivatization</i> , Harshitha Gajula, Ioan Marginean, University of Baltimore
11:10am	<i>Developing a Holistic Approach to the Analysis of Green Gunshot Residues Using Scanning Electron Microscopy with Energy-Dispersive X-Ray Spectroscopy and Comprehensive Two-Dimensional Gas Chromatography</i> , Barbara Grace Saunders, Katelynn Perrault Uptmor, William & Mary

2025 Preliminary Technical Oral Program

Tuesday Morning continued

Environmental Aspects and Analyses of PFAS and Microplastics Chairs: James Stuart, Anthony Provas, University of Connecticut	
9:00am	<i>Environmentally Relevant PFAS Disrupt Adult Female Ovarian Function in Mice</i> , Genoa Warner, New Jersey Institute of Technology
9:30am	<i>Efficient Strategies for Selective Preconcentration of Per- and Polyfluoroalkyl Substances in Aqueous and Gas Phase</i> , Emanuela Gionfriddo, University of Buffalo SUNY
10:00am	Break
10:30am	<i>Micro- and Nanoplastic Inhalation Exposure during Pregnancy: Outcomes in a Maternal-Fetal Rodent Model</i> , Phoebe Stapleton, Rutgers University
11:00am	<i>Capture and Ingestion of Nanoparticles and Microplastics by Bivalve Molluscs: Implication for Bioaccumulation and Toxicity</i> , J. Evan Ward, University of Connecticut

Modern HPLC Approaches: Method Optimization, Sustainability, and Selectivity Chair: Mariann Neverovitch, Bristol Myers Squibb	
9:00am	<i>Improving Sustainability through Modernization of LC Methods</i> , Geoff Faden, MAC-MOD Analytical, Inc., Matt James, Gemma Lo, David Dunthorne, Arianne Soliven, Avantor Sciences, Tony Edge, University of Liverpool
9:20am	<i>Employing Multidimensional Design Space Modeling Across Frequent Chromatographic Challenges—Use Cases from Recently Published Results</i> , Arnold Zoeldhegyi, Imre Molnar, Molnar-Institute, Krisztian Horvath, University of Pannonia, Robert Kormany, Egis Pharmaceuticals Plc
9:40am	<i>Greener Routine HPLC Analysis: Translation of USP Monographs to the Capillary Scale</i> , Samuel Foster, Matthew Morse, Elisabeth Gates, Garrett Hellinghausen, Cary Simpson, John Stimus, Greg Ward, Axcend
10:00am	Break
10:30am	<i>Design of High Performance of Ultrawide Pore SEC Stationary Particles</i> , Mingcheng Xu, Szabolcs Fekete, Matthew Lauber, Waters Corporation
10:50am	<i>Recent Developments in Inert Columns for HPLC Separations of Small Molecules</i> , Thomas Walter, Kenneth Berthelette, Melissa Aiello, Jo-Ann Jablonski, Waters Corporation
11:10am	<i>Chromatographic Separation and Photodiode Array (PDA) Detector Identification of Synthetic Industrial Dyes in Foods, OTC Drugs, and Cosmetics</i> , Catharine E. Layton, Paul D. Rainville, Amy Woodsmall, Waters Corporation

Mass Spectrometry and Chromatographic Techniques for Biomarkers, Drug Monitoring, and Environmental Contaminants Chair: Costel Darie, Clarkson University	
9:00am	<i>Proteomic Analysis of Breast Milk for Early Detection of Breast Cancer: In-Gel Digestion Mass Spectrometry Approach</i> , Aneeta Arshad, Brian T. Pentecost, Costel C. Darie, Clarkson University, Kathleen F. Arcaro, University of Massachusetts-Amherst
9:20am	<i>¹⁸O-Water Labelling Enables Protein Turnover Measurements in Embryogenesis</i> , Martin Wühr, Edward Cruz, Argit Marishta, Alex Johnson, Michael Neinast, Joseph Crapse, Joshua Rabinowitz, Eric Wieschaus, Princeton University
9:40am	<i>Mass Spectrometric Based Approach for Lysosomal Storage Diseases Diagnostic in Newborns</i> , Brindusa-Alina Petre, Costel C. Darie, Clarkson University, Laura Darie-Ion, Alexandru Ioan Cuza University of Iasi
10:00am	Break
10:30am	<i>GCMS Low Energy Ionization to Differentiate Fentanyl and Nitazene Analogs</i> , Kirk Lokits, Agilent Technologies
10:50am	<i>Current LC/MS Approaches for PFAS Analysis with Ultrashort and Long Chain Mixtures</i> , Conner McHale, Barry Boyes, Josh McBee, Advanced Materials Technology
11:20am	<i>Assessing the Long-Term Stability of Synthetic Cannabinoids in Human Blood by LC-QQQ-MS</i> , Katya Beltran, Thomas Jefferson University, Grace Cieri, Melissa Fogarty, Alex Krotulsk, Barry Logan, The Center for Forensic Science Research and Education

2025 Preliminary Technical Oral Program

TUESDAY AFTERNOON, NOVEMBER 18

EAS will be honoring ALL 6 of our awardees in a special award session on Tuesday, November 18 in the afternoon from 1:15pm – 4:30pm. All registered attendees and exhibitors are invited to attend.

EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN THE FIELDS OF ANALYTICAL CHEMISTRY

Honoring **David S. Hage, University of Nebraska-Lincoln**

Sponsored by Bristol Myers Squibb

EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN SEPARATION SCIENCE

Honoring **Nicholas Snow, Seton Hall University**

Sponsored by Restek Corporation

EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN MASS SPECTROMETRY

Honoring **Ljiljana Paša-Tolić, Pacific Northwest National Laboratory**

Sponsored by American Microchemical Society

EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN MAGNETIC RESONANCE

Honoring **Lewis E. Kay, University of Toronto**

Sponsored by Bruker BioSpin & New Era Enterprises

EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN CHEMOMETRICS

Honoring **Karl Booksh, University of Delaware**

Sponsored by Eigenvector Research

EAS YOUNG INVESTIGATOR AWARD

Honoring **Katelynn Perrault Uptmor, College of William and Mary**

Sponsored by GSK

WEDNESDAY MORNING, NOVEMBER 19

Time	Title, Author(s)
Use of Novel Chromatography to Advance Pharmaceutical Research for Drug Discovery and Development <i>Sponsored by the Chinese American Chromatography Association</i> Chair: Yi He, John Jay College of Criminal Justice	
9:00am	<i>Achieving Paramount Selectivity: Bioanalytical Method Design for LC-MS/MS Interference Elimination and Recent Case Studies</i> , Kasie Fang, GSK
9:30am	<i>Enabling Separation of Large Nucleic Acids by a Novel Slalom Chromatographic Technique</i> , Jamuna Vaishnav, Waters Corporation
10:00am	Break
10:30am	<i>Quantifying Electrostatic Effect in Hydrophilic Interaction Chromatography (HILIC)</i> , Yong Guo, Fairleigh Dickinson University
11:00am	<i>Advanced Chromatographic Method Development for Advanced Drug Delivery</i> , Guo Howard Hongyue, GSK

Characterization of Cultural Heritage Objects Chair: John Scott, Kenescott Fdn, N Y Conservation Fdn and Zachary Voras, West Chester University of Pennsylvania	
9:00am	Authentication of a 'Wounded' Book Aboard the USS Enterprise in the War of 1812, Zachary Voros, Salgado, McColl, West Chester University of Pennsylvania
9:30am	Curly Crinoid: Characterization of Natural and Treatment-Induced Deterioration of a Jurassic Fossil Slab, Mariana DiGiacomo, Yale Peabody Museum of Natural History
10:00am	Break
10:30am	Scientific Adventures with Cultural Heritage Objects, Erich Uffelmann, Washington and Lee University
11:00am	The Forgotten Yellow: Rediscovering Patent Yellow Pigment, Kirsten T. Moffitt, Colonial Williamsburg Foundation, Jocelyn Alcantara-Garcia, University of Delaware, Gabriela Farfan, Smithsonian National Museum of Natural History

Predictive Sciences for Chromatographic Method Development Chairs: Pankaj Aggarwal, Merck & Co., Inc., Imad Haidar Ahmad, Amgen	
9:00am	<i>In Silico Modeling: Enabling Solutions to Complex Analytical Challenges</i> , Imad Haidar Ahmad, Amgen
9:30am	<i>Extending Machine Learning Based Retention Time Prediction by Modeling Multiple Chromatography Conditions</i> , Armen Beck, Andrew Singh, Gwenyth Jones, Jonathan Fine, Rojan Sresthra, Edward Sherer, Katharine Williams, Erik Regalado, Pankaj Aggarwal, Merck & Co., Inc.
10:00am	Break
10:30am	<i>Molecular Dynamics Prediction of Analyte Retention in Reversed-Phase and Mixed-Mode Liquid Chromatography: Can Artificial Intelligence Rise to the Task?</i> , Fabrice Gritti, Waters Corporation
11:00am	<i>Deep Transfer Learning for Elution Time Prediction in Liquid Chromatography</i> , Haixu Tang, Yuhui Hong, Indiana University

2025 Preliminary Technical Oral Program

Wednesday Morning continued

The Use of Innovative Atomic Spectrometry Strategies to Solve Challenging Chemical Problems Chair: Steven Ray, State University of New York at Buffalo	
9:00am	<i>New Instrumental Strategies in Analytical Atomic Spectrometry</i> , Steven Ray, State University of NY at Buffalo
9:30am	<i>Chemical and Elemental Mapping of Biomedical Samples: State of the Art</i> , Mauro Martinez, Icahn School of Medicine at Mount Sinai
10:00am	Break
10:30am	<i>Understanding Ionization and Fragmentation Processes in Solution-Cathode Glow Discharge Mass Spectrometry</i> , Jacob Shelley, Rensselaer Polytechnic Institute
11:00am	<i>The Exposome and Atomic Spectrometry</i> , Patrick Parson, New York State Department of Public Health

Demystifying Machine Learning: A Tutorial on Multivariate Analysis Chair: Caelin Celani, University of Delaware <i>Curious about data science but not sure where to start? This session introduces the core concepts of chemometrics—from preprocessing and exploration to building powerful models for regression and classification—designed for beginners ready to unlock the patterns in their data.</i>	
9:00am	<i>Foundations of Chemometric Modelling: A Practical Guide to Preprocessing, Validation, and Feature Selection</i> , Caelin Celani, University of Delaware
9:30am	<i>Exploratory Data Analysis: Standard Tools & Modern Alternatives</i> , Steve Driscoll, Repligen Corporation
10:00am	Break
10:30am	<i>Modelling: Calibration & Regression</i> , Cannon Giglio, Oak Ridge National Laboratory
11:00am	<i>Modelling: Cluster Analysis & Classification</i> , Alexis Weber, PerkinElmer

PAT, It's What you Don't See that Counts! Chair: James Rydzak, Specere Consulting	
9:00am	Edita Botonjic, Pall Corporation
9:30am	Elena Hagemann, Metrohm USA
10:00am	Break
10:30am	Gregory Lane, Bristol Myers Squibb
11:00am	John Wasyluk, Bristol Myers Squibb

Translational Proteomics and Bioanalysis: From Biomarkers to Biotherapeutics Chair: Suzanne Schreyer, Rigaku Analytical Devices	
9:00am	<i>Uncovering the Tear Fluid Glycoproteome in Dry Eye Disease</i> , Vincent Chang, Isaac Lian, Keira Mahoney, Stacy Malaker, Yale University, Niclas Karlsson, Oslo Metropolitan University
9:20am	<i>Evaluating the Role of Glycosylation in Preserving Antibody Structure and Stability Under Stress Conditions</i> , Arabella Garcia, Rowan Matney, Varun Gadkari, University of Minnesota
9:40am	<i>Peptidomic In-Gel and In-Solution Comparative Study of Serum Samples from Women with Invasive Ductal Carcinoma Breast Cancer</i> , Pathea S. Bruno, Kaya R. Johnson, Lilian G. Corrice, Brian T. Pentecost, Costel C. Darie, Clarkson University
10:00am	Break
10:30am	<i>Ultrafast Microdroplet Digestion of Antibodies with Fc-Silencing Mutations</i> , Yongqing Yang, Mengyuan Xiao, Hao Chen, New Jersey Institute of Technology, Jim Lau, Mike Knierman, Hui Zhao, Xi Qiu, Karen Luo, John Sausen, Agilent Technologies, Harsha Gunawardena, The Janssen Pharmaceutical Companies
10:50am	<i>The Importance and Uniqueness for Reagents in ADC Bioanalysis</i> , Xiaohui Xu, Daiichi Sankyo, Inc.
11:10am	<i>Investigation of the effects of Human Jumping Translocation Breakpoint (hJTB) Protein Using Two-Dimensional-PAGE Coupled with nLC-MS/MS-Based Proteomics</i> , Taniya Jayaweera, Krishan Weraduwege, Madhuri Jayathirtha, Costel Darie, Biochemistry & Proteomics Group, Clarkson University

Analytical Innovation for Complex Materials and Emerging Contaminants Chair: Anthony Provatias, University of Connecticut	
9:00am	<i>Accelerating Fit-for-Purpose Development of Analytical Methods, and Adaptation of Existing Platform Methods and Monograph Methods to New Substances and Products, using Modern AQbD Tools and Approaches</i> , Richard Verseput, S-Matrix Corporation
9:20am	<i>Comparing C18-Type Stationary Phases to Biphenyl Using an LC Virtual Method Development Tool</i> , Melinda Ulrich, Restek Corporation
9:40am	<i>Evaluation of Hybrid Silica C18 End-Capped with Bidentate Silylating Reagent for HPLC</i> , Scott Silver, Pyvot, Norikazu Nagae, Tomoyasu Tsukamoto, Ryuji Koyama, ChromaNik Technologies Inc.
10:00am	Break
10:30am	<i>The Importance of Refractive Index Accuracy in Determining Drug Payload Using Measured Particle Size for Lipid Nanoparticles</i> , Beverly Barnum, Sean Race, Bettersize, Inc.
10:50am	<i>Rapid Detection of Microplastics and Nanoplastics in Seconds Bypass Spectrometry</i> , Hao Chen, New Jersey Institute of Technology
11:10am	<i>Nanocellulose from NOP and Applications</i> , Priyanka Sharma, Western Michigan University, Sunil Sharma, Stony Brook University

2025 Preliminary Technical Oral Program

WEDNESDAY AFTERNOON, NOVEMBER 19

Green Technology for Heritage Conservation Chair: John Scott, Kenescott Fdn, NY Conservation Fdn and Rosie Grayburn, Winterthur	
1:00pm	<i>Safer Solvent Selections for Removal & Application of Synthetic Resins</i> , Rosie Grayburn, University Delaware Winterthur
1:30pm	<i>Solvent Use in Conservation, Results of 2024 Survey</i> , Ka Yee (Christy) Ching, Smithsonian National Air and Space Museum
2:00pm	<i>Varnish, Vanish, Regs, Needs - Solvents in Fine Art</i> , Ulysses Jackson, GOLDEN Artist Colors, Inc., R&D
2:30pm	<i>Life Cycle Assessments in Cultural Heritage Conservation and Preservation</i> , Sarah Nunberg, The Objects Conservation Studio, LLC

Prepared for Anything: Infrared Sampling Tools and Techniques for Unusual (and Usual) Samples Chair: Brooke Kamrath, New Haven University	
1:00pm	<i>Understanding and Navigating Sampling Challenges in FT-IR Spectroscopy</i> , Peter Larkin, Syensqo
1:30pm	<i>"Just Stick it in the Instrument and Scan it!" - Guiding Engineers (and others) Through the Art of Analytical Spectroscopy</i> , Jay Powell, Analytical Answers
2:00pm	<i>Method Optimization and Data Processing for Thermogravimetric Analysis Coupled with Fourier Transform Infrared Spectroscopy</i> , Justin Lang, PerkinElmer
2:30pm	<i>Diamond ATR: The Good, the Bad and the Ugly</i> , Ellen Miseo, Miseo Consulting, Peter Larkin, Syensqo, Technology Solutions

Gas Chromatography and Mass Spectrometry for Environmental, Regulatory, and Multicomponent Sample Analysis Chair: Kate Jackson, Colgate Palmolive Company	
1:00pm	<i>Revealing the Hidden Impact of Signal Filtering on Peak Resolution in Gas Chromatography: A New Metric for Evaluating Analytical Integrity</i> , Salar Azizi, UnitGC LLC
1:20pm	<i>Identification of Key Sensory-Active Compounds in Cannabis by Aroma Dilution Analysis</i> , Nicole Kfoury, Megan Harper-Kerr, GERSTEL, Inc.
1:40pm	<i>Fast Analysis of 140 Pesticides, PAHs, and PCBs by GC/MS/MS</i> , Erinn O'Neill, Alexis Willey, Agilent Technologies
2:00pm	<i>Optimizing Analytical Workflow of EPA Method 525 While Enhancing Speed and Sensitivity</i> , Tyler Roberts, Shimadzu Scientific Instruments
2:20pm	<i>Octahydroacridine Artifact Generated in Gas Chromatography Injector during Extractable & Leachable Study of a Medical Device</i> , Yunyun Yuan, Ying Jiang, Yijun Lu, Johnson & Johnson MedTech

Imaging and Vibrational Techniques for Spatial and Chemical Profiling Chair: Fernanda Delgado, University of Delaware	
1:00pm	<i>Automated Iterative Targeted Detection in Hyperspectral Imaging – Fast, Accurate Detection of Minor Target Signal in a Swamp</i> , Neal Gallagher, Eigenvector Research, Inc.
1:20pm	<i>Identifying and Quantifying Elemental Impurities Using X-Ray Fluorescence</i> , Dylan Lundgren, Malvern Panalytical
1:40pm	<i>Understanding Regional Molecular Alterations in Scn2a Mutated Mouse Brains using Nanospray Desorption Electrospray Ionization Mass Spectrometry Imaging</i> , Alyssa Moore, Xiaoling Chen, Emerson Hernly, Jingliang Zhang, Yang Yang, Julia Laskin, Purdue University
2:00pm	<i>High-Speed IR Microplastic Analysis with <300 nm Spatial Resolution</i> , Jay Anderson, Eoghan Dillon, Mustafa Kansiz, Photothermal Spectroscopy Corp.
2:20pm	<i>THz-TDS Evaluation of Water Content in Flax-Based Naturally Derived Composites for Aircraft Applications</i> , Eric Tucker, Nour Hakim, Matthew Webster, Luke Post, Karina Hafeez, Samantha Johnson, NASA Langley Research Center
2:40pm	<i>Sub-Micron Multimodal IR (O-PTIR) Micro-Spectroscopy to Improve Pharmaceutical Product Knowledge and Process Understanding</i> , Mustafa Kansiz, Photothermal Spectroscopy Corp., Kevin Dahl, Particlese

Industrial Microscopy Chair: Peter Diaczuk, New York Microscopical Society	
1:00pm	Jack Hietpas
1:30pm	Ethan Groves
2:00pm	Danielle Parsons
2:30pm	Rich Brown

2025 Preliminary Technical Oral Program

Wednesday Afternoon continued

Next-Generation Analytical Strategies for Emerging Biopharmaceutical Modalities

Chair: Mike Hicks, Merck & Co., Inc.

1:00pm	<i>Advanced Analytical Workflows for Accelerating the Pace of Drug Development</i> , Mohamed Hemida, Rodell Barrientos, Gioacchino Luca Losacco, Heather Wang, Ophelia Ukaegbu, Andrew Singh, Caleb Kinsey, Eli Larson, Emmanuel Appiah-Amponsah, Erik L. Regalado, Merck & Co., Inc., Davy Guillaume, Institute of Pharmaceutical Sciences of Western Switzerland
1:20pm	<i>Analytical Characterization of Solid Oral Protein Therapeutics</i> , Lulu Dai, Genentech
1:40pm	<i>Extensive Characterization of Circular RNA Impurities: Analytical Characterization</i> , Yvonne Shieh, Ravikiran Yerabolu, William Cantara, Zhongfeng (Frank) Zuo, Matthew Schombs, Merck & Co., Inc.
2:00pm	<i>Challenges on Process Equipment Related Leachables Analysis for Biologics Manufacturing</i> , Bin Sun, Cytiva
2:20pm	<i>Advancing Nucleic Acid Analysis: Large-Pore Superficially Porous Particles for Enhanced Separations</i> , Peter Pellegrinelli, Barry Boyes, Brian Wagner, Joshua McBee, Stephanie Schuster, AMT
2:40pm	<i>Stability Impact from a Titanium Dioxide-Free Film-Coated Tablet: An Analytical Investigation into Photo-, Physical, and Chemical Stability of Compressed Tablets Made with Alternative Film-coating Materials</i> , Matthew Gunsch, Sara Koynov, Devan McCoy, Mario Gutierrez, Trent Eastman, Yun Chen, Jiaying Liu, Plamen Grigorov, Pankaj Aggarwal, Jonathan Fine, Leonardo Allain, Pavithra Sundararajan, Sanjaykumar Patel, Andre Hermans, Merck & Co., Inc.



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Diversity of Scientific Ideas



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KEYNOTE & BREAKFAST LECTURES

We are excited to announce our special lectures!
Join us to hear these experts:

Keynote Lecture

*Sponsored by Fred and David Bickford,
Sue Evans Norris in Honor of
Dr. Fred A. Bickford and Monroe H. Evans*

Monday, November 17, 4:15pm

*Exploring New Frontiers in Neurochemical
Detection Along the Gut-Brain-Immune Axis*

Dr. Ashley Ross
University of Cincinnati



Breakfast Lectures

Sponsored by ACCTA, Inc.
Monday, November 17, 7:30am

Career Options for Women Chemists Part 1



Dr. Kate Jackson
Colgate Palmolive Company



Dr. Monica Joshi
West Chester University of PA

Tuesday, November 18, 7:30am

Career Options for Women Chemists Part 2



Dr. Anastasia Andrianova
Agilent



Dr. Erin Ennis
FMC Corporation

2025 EAS Short Course Schedule

For complete descriptions of all EAS Short Courses, [click on the course name to link to the description.](#)

Two-Day Courses

Code	Sunday, Nov. 16 – Monday, Nov. 17 8:30am - 5:00pm	Instructor(s)
E25-01	Practical LC-MS/MS Method Development and Sample Preparation	Perry Wang, LC-MS Technical Expert
E25-02	HPLC and UHPLC for Practicing Scientists 1 and 2: Fundamentals, Method Development, and Troubleshooting	Michael Dong, MWD Consulting

One-Day Courses

Code	Sunday, November 16 8:30am - 5:00pm	Instructor(s)
E25-03	HPLC and UHPLC for Practicing Scientists Part 1 ONLY	Michael Dong, MWD Consulting
E25-04	Practical NMR Spectroscopy	Damodaran Achary, University of Pittsburgh
E25-05	Introduction to Quantitative Spectroscopy for Near Infrared and Raman Instrumentation	Debbie Peru, DP Spectroscopy & Training, LLC
E25-06	LA-ICP-MS: Theory, Practice, and Environmental and Biological Applications	Dula Amarasiriwardena, Hampshire College
E25-07	Chromatographic Methods of Analysis of Oligonucleotides, siRNA, and mRNA	Martin Gilar, Waters Corporation
E25-08	Process Analytical Technology: Out of the Lab & into the Line	James Rydzak, Specere Consulting
E25-09	Successfully Implementing Key Elements of the USP and ICH Guidances in an Enhanced Analytical Procedure Development Workflow	Richard Verseput, S-Matrix Corporation

Code	Monday, November 17 8:30am - 5:00pm	Instructor(s)
E25-10	Getting the most from GC and GC/MS	Gregory Slack, Consultant Nicholas Snow, Seton Hall University
E25-11	Analytical Method Validation and Lifecycle Management – FDA, ICH and USP Expectations	Kim Huynh-Ba, Pharmalytik, LLC
E25-12	Advanced Chemometrics without Equations (or Hardly Any)	Neal Gallagher, Eigenvector Research
E25-13	HPLC and UHPLC for Practicing Scientists Part 2 ONLY	Michael Dong, MWD Consulting
E25-14	How to Deliver a Winning Technical Presentation	Dottie Li, TransPacific Communications
E25-15	Data Analysis Skills for Chromatographers	Merlin Bicking, ACCTA, Inc.

Code	Tuesday, November 18 8:30am - 5:00pm	Instructor(s)
E25-16	Real-Time Insights into Electrochemical Reactions: Operando/In-Situ Raman and Optical Imaging	Mritunjay Mishra, University of Delaware Gbenga Taiwo, University of Delaware
E25-17	Systematic HPLC Troubleshooting	Merlin Bicking, ACCTA, Inc.
E25-18	Introduction to Data Analytics for Analytical Chemists	Mary Kate Donais, Anslem University
E25-19	PFAS - A Wonder Chemical which became a Nightmare	Jay Meegoda, NJ Institute of Technology
E25-20	Analytical Target Profile: An Introduction and its Strategic Link to Quality Target Product Profile and Analytical Life Cycle Management	Partha Mukherjee, Amicus Therapeutics
E25-21	Collecting Infrared Spectra and Avoiding the Pitfalls	Ellen Miseo, Miseo Consulting Jeff D'Agostino, Specac
E25-22	An Overview of Drug Development, Drug Quality, Regulatory, and Quality Control Processes	Michael Dong, MDW Consulting
E25-23	Practical Bioanalytical Method Validation by LC-MS/MS	Perry Wang, LC-MS Technical Expert

EAS Awards Program

Tom Brettell, 2025 EAS Awards Chair

Each year the Eastern Analytical Symposium honors Analytical Chemists who have distinguished career achievements. The recipients of these awards advanced these fields by superior work in developing theory, techniques or instrumentation. This year scientists, in six areas of endeavor, will be presented awards.



Professor David S. Hage
University of Nebraska-Lincoln
*EAS Award for Outstanding
Achievements in the Fields of
Analytical Chemistry*



Professor Nicholas Snow
Seton Hall University
*EAS Award for Outstanding
Achievements in Separation Science*



Dr. Ljiljana Paša-Tolić
Pacific Northwest National Laboratory
*EAS Award for Outstanding
Achievements in Mass Spectrometry*



Professor Lewis E. Kay
University of Toronto
*EAS Award for Outstanding
Achievements in Magnetic Resonance*



Professor Karl Booksh
University of Delaware
*EAS Award for Outstanding
Achievements in Chemometrics*



Professor Katelynn Perrault Uptmor
College of William & Mary
EAS Young Investigator Award

This other award will be presented at the annual Symposium in November under the auspices of the EAS Sponsoring Organization



Dr. Geraldine Richmond
University of Oregon
*NY/NJ Section of the Society for Applied
Spectroscopy Gold Medal Award*

EAS Awards are selected by independent juries of experts in these respective fields from nominations received by the Award Committee from the scientific community at large. Each award consists of an honorarium, travel expenses to EAS, a plaque, and the opportunity for the Awardee to present their work at EAS at an Award Symposium in their honor. Visit our website for full biographies of Awardees. Persons wishing to make a nomination for any of the awards given by EAS should send complete documentation of the candidate (content of the nomination package detailed on the EAS website) electronically to: awards@eas.org. The deadline for all 2026 award nominations is **September 1, 2025**.

2025 EAS Student Research Awards

EAS continues to actively support a Student Awards program to recognize students involved in research in the broad field of analytical chemistry. We encourage professors to identify undergraduate Juniors in college and graduate students who demonstrate special talent in research. Nomination criteria include excellent grades, appraisals of how the students handle their investigations, their approach and how they resolve problems and publicly disseminate their work.

In 2025, four undergraduates and four graduate students have been selected based on these criteria to receive EAS Student Awards. The following outstanding students have been chosen from a very worthy field of candidates:

UNDERGRADUATE STUDENTS



Zachary Cohen
Northeastern University
Nominated by Prof. Thomas Wales



Ronnie Cutler
Purdue University
Nominated by Prof. Julia Laskin



Frances Huff
Trinity College
Nominated by Prof. Michelle Kovarik



Vyas Pujari
Princeton University
Nominated by Prof. Martin Wühr

GRADUATE STUDENTS



Vincent Chang
Yale University
Nominated by Prof. Stacy Malaker



Julia Danischewski
Rensselaer Polytechnic Institute
Nominated by Prof. Jacob Shelley



Uma Nudurupati
University of Vermont
Nominated by Prof. Yangguang Ou



Daniel Reddy
Queen's University
Nominated by Prof. Richard Oleschuk

The Governing Board of the 2025 EAS congratulates these awardees for their outstanding achievements.

The Student Awardees' posters will be presented on Tuesday, November 18, 2025 in the Poster Area on the Bridge to the hotel from 11:30pm – 12:25pm

Speed Mentoring Session



The Coblenz Society will offer an in-person Speed Mentoring event on Monday, November 17 from 11:45am – 1:15pm.

Speed Mentoring is a fun and fast paced session that enables a structured interaction with two dozen or more scientists from various industries, academia, and government labs that enable the mentees to get an understanding of what it's like to work in those areas. These interactions can be the basis of an ongoing mentoring relationship session if that is of interest and is a wonderful networking opportunity for job hunting or just getting a better understanding of life as a spectroscopist. This proved to be a good way to connect students with a variety of mentors and spark conversations in many possible career paths.

Mentors and Mentees must register for the Eastern Analytical Symposium & Exposition. During the online registration process you will need to respond to the question asking if you want to be a mentor/mentee. Space is limited; we encourage advance registration.

CALL FOR STUDENT REPRESENTATIVE

EAS is accepting applications for the November 2025 – November 2026 student representative position. Candidates will need to be either a full-time undergraduate or full-time graduate student through mid-2026. The role of the student representative is to work directly with the EAS publicity committee, creating posts for EAS social media platforms throughout the entire year and leading social media initiatives to increase engagement with EAS.

The candidate is expected to spend time each week making contributions to the social media platforms of EAS, attend 4 board meetings per year and be present at the 4-day symposium which is held the third week of November. Board meetings may be held virtually or in person and are mainly scheduled for a Friday morning. EAS provides travel reimbursement for attendance at the meetings. The affiliation starts November of 2025 with a maximum duration of 2 years.

A knowledge of social media platforms, current enrollment in a discipline centered in or related to the analytical sciences or scientific communication would be highly valued in this role. Applications consisting of a CV and a cover letter should be emailed to askeas@eas.org by the application deadline of September 15, 2025.

The Eastern Analytical Symposium (EAS) is a volunteer organization that sponsors a scientific conference and exposition each November. The annual symposium is attended by more than 1,500 scientists from industry, academia and government. The symposium offers educational short courses, student seminars, professional development workshops and technical sessions including award sessions, oral and poster presentations. The exposition presents information, products and services from companies that supply the analytical chemistry field. The symposium and all in person board meetings are held in the Princeton, NJ area.

CALL FOR STUDENT VOLUNTEERS

Are you a high school, undergraduate, or graduate student looking to get involved? Look no further than Eastern Analytical Symposium! We are actively recruiting volunteers to help with all aspects of our November Symposium and Exposition in Plainsboro, NJ! We are looking for help with setting up on the Saturday and Sunday prior to the conference, tech support in various sessions, manning booths such as registration or short course check-in, and more. This is a great opportunity to learn what goes into putting on a scientific conference and will provide the opportunity to network with analytical chemistry experts across industry, academia, government, and fellow students! As a thank you for volunteering, free registration will be provided for the conference!

If you're interested in volunteering or have questions, email Fernanda Delgado (Fernanda.delgado@eas.org, Student Representative) or Bernadette Taylor (askeas.org).

Call for Volunteers



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Thermo Fisher Scientific
Tosoh Bioscience LLC
Trajan LPP
VICI DBS USA
Waters Corporation



Please contact Janine at exposition@eas.org for info about exhibiting.

Exposition Hours & Events

Monday, November 17th	10:00 am to 6:30 pm
Tuesday, November 18th	10:00 am to 5:30 pm
Wednesday, November 19th	10:00 am to 1:00 pm

Expo Bingo

Each attendee will receive a Bingo card containing the names, locations, and logos of the Expo Bingo participants. By visiting these companies, you will learn more about their products and services. At each exhibitor, receive a sticker to cover that company's logo on your Bingo card. Once you have visited the participating companies and all Bingo squares are covered, turn your Bingo card into the EAS Souvenir Booth located in the exposition hall, to get a special gift. Additionally, your completed Bingo card will also be entered in a grand prize drawing with 3 chances to win. Each winner will have their choice of 1 of 3 prizes: EAS 2026 Registration, a \$100 Amazon Gift Card or a 2026 EAS Short Course (requires EAS Registration). **Participants will also be able to play Expo Bingo using the EAS Mobile App.**

Keynote Reception

Monday, November 17th

5:15pm - 6:30pm

Immediately following the keynote lecture, EAS invites all registered attendees to join us at the keynote reception that takes place in the exposition halls. Take this time to enjoy food and drinks while visiting the exhibits and networking with other attendees.

Exposition Mixer

Tuesday, November 18th

4:00pm - 5:30pm

EAS invites all registered attendees to join us at our annual Exposition Mixer. Sample passed hors d'oeuvres, appetizers and refreshments while learning about the newest developments in analytical instrumentation, supplies, technologies, and services. The Exposition Mixer is a wonderful opportunity to connect with technology and a fun way to end the day at EAS. This Mixer is open to all registered attendees.



CAREER DEVELOPMENT WORKSHOPS

Register for EAS and take advantage of these FREE workshops to improve your job seeking skills!

Extraordinary STEM Women Leaders – What Sets Them Apart

Susan Morris - Susan Morris Coaching

Live ONLINE Workshop, Friday, November 7; 12:00 pm – 1:00 pm ET

Given the rapid technological advances like CRISPR and AI, forward thinking and inspirational leaders are needed now more than ever. There are talented STEM women who lead teams, discover innovative products and keep drugs safe, pure, potent and effective. However, few STEM women rise to the ranks of senior executive leaders. For the handful of STEM women who are successful leaders, how did they become the best of the best? More importantly, what are the lessons the next generation of STEM women need to learn to be extraordinary leaders themselves? In 2023, a qualitative study was conducted with 21 STEM women in the life sciences and healthcare. Study results pointed to three key personality traits and two indisputable skills that separate STEM women who are extraordinary from the average STEM leader. Study results uncovered five practices for STEM women who aspire to be extraordinary.

Resume and Interview Hints Helpful for Obtaining Positions at Any Level

Roy Helmy, Associate Vice President, Merck & Co., Inc.

Gino Salituro, Senior Executive Consultant/Manager – Accenture

Live ONLINE Workshop – Wednesday, November 12; 12:00 pm – 1:00 pm ET

Learn the secrets of locating positions. Understand the importance of how to read a job description so that you can submit an effective application. Format a resume appropriately tailored to a specific job description. Generic resumes are not as effective. This workshop takes you from preparing the resume to accepting the offer by reviewing 1) writing a resume, 2) preparing for a phone screen, 3) what to expect in a typical candidate on-site interview experiences and questions, and 4) taking the time to review the offer and how to respond to the human resources and/or hiring manager. This session is interactive come prepared with questions.

Career Change – Unlocking your Potential

Reno DeBono, Ph.D., QC Manager – Analytical & Metals

EMD Electronics (Electronic Business of Merck KGaA, Darmstadt Germany)

Live ON-SITE Workshop; Monday, November 17; 12:00 pm – 1:00 pm

Ready for a career change? Join us and unlock your potential for a successful career transition! Whether you're a seasoned professional or just starting your career, this session will empower you to:

- Discover Core Skills: Understand and communicate your existing skill sets; Identify transferable skills that can open new doors;
- Explore New Career Paths: Learn about core skills required in different industries; Find opportunities beyond your current specialty.
- Problem-Solving and Value Creation: Analyze gaps and challenges in potential roles; Discover how you can bring unique value to a position or company.
- Share Success Stories: Learn how to showcase your achievements effectively; Craft compelling narratives for interviews and networking.
- Generalize Specialized Knowledge: Adapt highly specialized expertise to broader contexts; Enhance your versatility and adaptability.

Maneuvering the Science Job Market – Insights from Both Sides of the “Job Coin”

Jan Peters, PhD - Principal Scientist - Merck & Co., Inc

Live ON-SITE Workshop; Tuesday, November 18; 12:00 pm – 1:00 pm

Maneuvering the job market as a candidate looking for a job can be daunting even at the best of times but is even more stressful in challenging times like at the moment. Experience from more seasoned scientists that have successfully gone through interview and hiring processes as candidate and Hiring Manager can help more junior scientists to get tips and ideas to increase the success rate to land a great job, but also avoid common pitfalls that may result in losing opportunities. I plan to share my experience as candidate and Hiring manager, provide tips and tricks, but also important take aways from my career experience as well as the changes that I've observed throughout the years.

EMPLOYMENT BUREAU

The EAS Employment Bureau, which is free to all registered attendees, is offered for those seeking employees and employment. Job seekers will be able to review highlighted postings online during and after the symposium this November. Each posting will include contact information for questions and follow-up, so all job seekers are encouraged to review the available positions and contact the employers if interested. More information will be released later this year - stay tuned for the link to the online Employment Bureau!

Shelby Zangari
Employment & Workshop Chair



ALVIN BOBER STUDENT SEMINARS

November 16-19, 2025
Crowne Plaza Princeton – Conference Center
Plainsboro, NJ

EAS's Outreach Program offers three seminars essentially for high school teachers and students during the November meeting. Each seminar has outstanding presenters from academia and industry. The 2025 student seminar registration is free for middle & high school students with their teachers; seminars are included in the full-time college student registration fee of \$50. Students are encouraged to visit the Exposition after the seminar.

Foldscope Workshop

Jay Holmes, American Museum of Natural History
Sunday, November 16, from 1:00 pm - 4:00 pm
Registration Limited to TEACHERS ONLY, 20 spots only

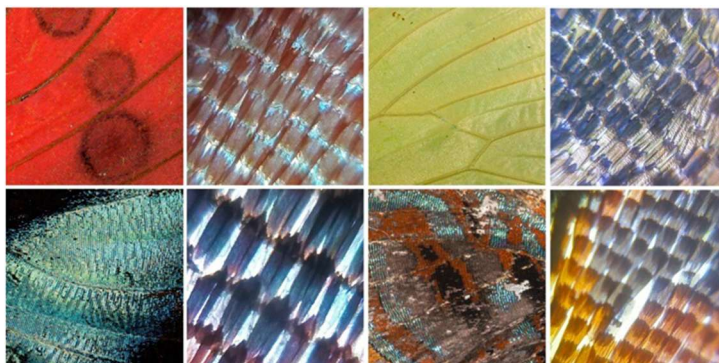
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Monday, November 17, 10:00 am - 12:00 pm for High School Students

These Foldscope seminars (1 for teachers and 1 for students) will provide highly skilled guided instruction about Foldscope and various applications. By completing this course, participants will quickly master how to use Foldscope, learn microscopy skills, and for teachers, prepare to lead others in scientific explorations. Learn how to use Foldscope from an expert microscopist!

The Foldscope is a light microscope made from simple components, including a sheet of paper and a lens, that costs less than \$1 to build. Its purpose is to be portable and durable, with no electricity requirements, while performing on par with conventional research microscopes (140-times magnification and 2 micron resolution). As part of the "frugal science" movement, the Foldscope enables communities around the world to experience the wonders and excitement of microscopy. With the Foldscope, magnified images of a range of samples can be revealed, such as tiny single-celled organisms and bacteria to microscopic details in larger items like insects, fabrics, and biological tissue. The potential of this is tremendous, as no tool is more capable of sparking curiosity in young people than the microscope

The Foldscope paper microscope



A montage of photomicrographs taken with the foldscope of various butterfly wings.

Better Justice with Forensic Chemistry

Dr. Michelle Miranda, Farmingdale State College and
Dr. Brooke Kamrath, University of New Haven & Henry C. Lee Institute of Forensic Science
Wednesday, November 19 from 10:00 am - 12:00 pm

This seminar introduces students to Criminalistics, the branch of forensic science that involves recognition, identification (or classification), individualization, and reconstruction of physical evidence. The purpose of this seminar is to introduce students to the non-biological forensic traces, such as illicit drugs, firearms evidence and gunshot residue, fingerprints, material traces (e.g., fibers, paint, glass), explosives, toxicology and more. In this seminar, microscopical, chemical and instrumental methods of analysis that are typically used in forensic science laboratories and in the field during crime scene investigations are presented in a hands-on, problem-solving based learning environment.

Students and teachers must *pre-register* to reserve a space. Registration is now open. Please contact Eastern Analytical Symposium at askeas@eas.org or visit our website at www.EAS.org for more information.

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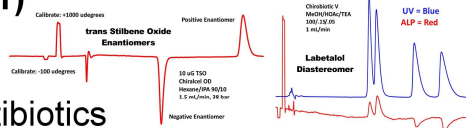
Develop separation methods automatically using custom cycles, methods, sequences written by PDR: **AutoMDS**

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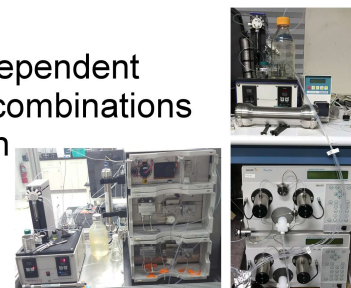
AutoMDS (automated method development)

- Custom methods & sequences written by PDR
- Chromatographic User Interface, not hardware dependent
- Write/Edit/Automate large Sequences, Methods, Cycles
- Data Processing Tool (DPT) filters chromatograms
- Real-time Status Display
- 20-bottle Gradient Mixer, 24-position Column Selector



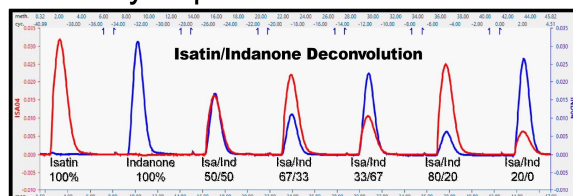
AutoPREP (automated purification)

- Chromatographic User Interface, not hardware dependent
- Collect using: Time, Volts, Slope, Polarity, ee, & combinations
- RECALCULATE data for quick visual optimization
- Make changes while Running
- Real-time Status Display and PREP Predictor
- Very flexible and easy to use



Real-Time Spectral Deconvolution (separate via math)

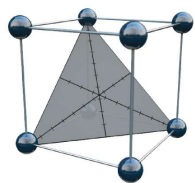
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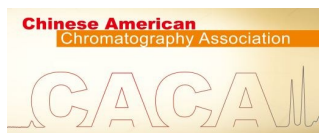
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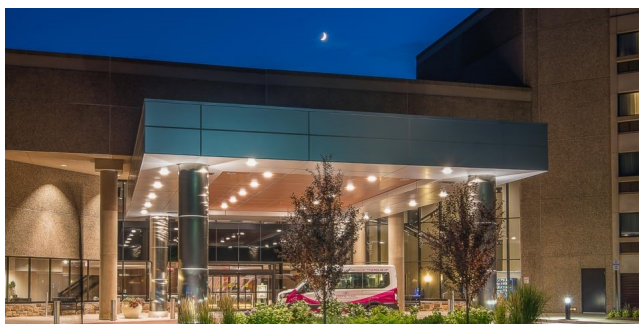
Software Platform

Corporate Sponsors actively participate in the Eastern Analytical Symposium and Exposition. There are numerous opportunities for Corporate Sponsorship of technical sessions, awards, and other activities at the 2025 EAS as well as advertising opportunities in our Final Program. For information, please contact the EAS Exposition Director at exposition@eas.org

Housing at the 2025 Eastern Analytical Symposium

EAS has a block of rooms reserved at The Crowne Plaza Princeton Hotel & Conference Center which is located on Scudders Mill Road in Plainsboro, NJ. The hotel is connected to the Conference Center where all EAS activities are held: Technical Program (Oral & Poster Sessions), Short Courses, Workshops, Seminars, Employment Bureau and Exposition.

In order to obtain a reservation at The Crowne Plaza Princeton hotel, you may use the web site or use the phone numbers provided below; be sure to use the Group Code to receive the discounted rate. You will need to provide a credit card number in order to guarantee your room. Please carefully read the information provided on the hotel's reservation website so that you are aware of any relevant cancellation penalties and dates. When you make your reservation, you will be provided with a confirmation; please retain it in case you need to modify your reservation.



Crowne Plaza Princeton

900 Scudders Mill Rd.
Plainsboro, NJ 08536
1-609-936-4200

2025 Room rate - \$184.00 per night plus tax
(you must mention **Group Code: EAS**)
[Click here for on-line reservations](#)

Transportation & Directions

LOCATION:

EAS will be held at the **Crowne Plaza Princeton-Conference Center & Hotel, 900 Scudders Mill Rd, Plainsboro, NJ 08536** (phone: 609-936-4200), located in the community of Plainsboro, NJ, just minutes from downtown Princeton. This location is ideally situated between Philadelphia and New York City. It is easy to reach from within New Jersey and the Mid-Atlantic region using some of the following highways: the New Jersey Turnpike, the Garden State Parkway, I-95, I-195, I-295, and Routes 1, 33, 133, 130 & 206.

PARKING & LOCAL SHUTTLE SERVICE:

Parking space is available at the Conference Center and at the adjacent Crowne Plaza Hotel and Holiday Inn Express. Overflow parking is available at the nearby Princeton Alliance Church at 20 Schalks Crossing Road, Plainsboro, NJ. **EAS will provide shuttle service from the overflow parking lot to the conference center Monday & Tuesday only.**

RAIL SERVICE:

NJ Transit Trains from Newark International Airport via the Northeast Corridor line is an economical and convenient method of transportation from Newark Airport and other locations in NJ, NY and PA. The closest train station is **Princeton Junction**. It serves both NJ Transit (www.njtransit.com) and Amtrak (<https://www.amtrak.com>). NJT / SEPTA trains from Philadelphia and NJ Transit trains from NYC are frequent. Amtrak offers service to/from New York City, Metro Park in NJ, Providence, Boston, Philadelphia, Wilmington DE, Baltimore, and Washington DC.

[Click here for more transportation options and for driving directions.](#)

EAS CALL FOR PAPERS

Submission Deadline: Poster Papers - September 1

www.eas.org/asubmit

EAS seeks contributed abstracts in these and other analytical fields:

- Bioanalysis
- Bioinformatics
- Biotechnology
- Cannabinoid Analysis
- Capillary Electrophoresis
- Cell and Gene Therapy
- Chemometrics
- Chiral Separation
- Conservation Science
- Counterfeit Analysis
- Electrochemistry
- Environmental Analysis
- Extractables and Leachables Analysis
- Food Analysis
- Forensic Analysis
- Gas Chromatography
- Green Chemistry
- HPLC/UHPLC
- ICP/MS
- Immunochemistry
- Ion Chromatography
- IR Spectroscopy
- Lab Automation
- Lab Management
- Lab Miniaturization
- LC/MS, GC/MS
- Mass Spectrometry
- Microfluidics
- Microscopy
- Nanotechnology
- Near-Infrared (NIR) Spectroscopy
- NMR Spectroscopy
- Pharmaceutical Analysis
- Portable Instrumentation
- Process Analytical Science
- Proteomics & Metabolomics
- Quality/Regulatory/Compliance
- Quality-by-Design
- Raman Spectroscopy
- Sample Preparation
- Science Education
- Sensors
- Size Exclusion Chromatography
- Solid State Analysis
- Statistics and Data Mining
- Supercritical Fluid Chromatography
- Surface Science
- Vibrational Spectroscopy

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