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Newsletter of the Eastern Analytical Symposium & Exposition

April 2025



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



It is my honor and privilege to invite you to this year's Eastern Analytical Symposium, where we will be sharing information in the field of analytical chemistry. This year's theme is **Across the Analytical Spectrum: Diversity of Scientific Ideas**. Analytical chemists from around the United States will be coming together to explore the latest innovations in analytical instruments, techniques, and technologies. There will be exciting scientific and technical oral and poster presentations, lectures, short courses, and discussions covering areas of spectroscopy, chromatography, mass spectrometry and much more. Attendees can network with industry professionals, learn about new products, and discuss trends and challenges in analytical laboratories. The symposium is not just a great opportunity to connect with peers, but also a showcase of developments made **Across the Analytical Spectrum** of techniques and methodologies.

Analytical chemistry plays a vital role in critical areas such as environmental monitoring, drug development, and food safety. Scientific problems often have far-reaching implications that affect people from different communities globally. **Diversity of Scientific Ideas** allows for a more comprehensive approach to problem-solving. When scientists from different backgrounds collaborate, it allows for the free exchange of ideas, fosters creative problem solving, and results in more impactful research outcomes that have become vital for the continued evolution of scientific discovery. It looks at new ways of designing experiments, interpreting data, or even discovering entirely new methods for analysis. Within our scientific community, empowering different perspectives, backgrounds, and experiences is essential for advancing the field, addressing global challenges, and ensuring that scientific progress benefits everyone.

When I look at the world of analytical chemistry, I see a vast, dynamic, and essential part of advancing industries, from art history and conservation to pharmaceuticals and material sciences. The Eastern Analytical Symposium and Exposition provides a platform for all our attendees to explore cutting-edge research, exchange innovative ideas, and discuss challenges that lie ahead for everyone in our field. Over the course of the symposium, we hope that the diversity of sessions highlights not only the breadth of analytical chemistry but also its critical role in solving some of the most pressing global challenges.

When we come together for **EAS 2025 November 16th through 19th at the Crown Plaza Princeton Conference Center**, I encourage you all to share your knowledge, engage with fellow researchers, and form connections that will continue to inspire progress beyond the symposium. I believe that the power of collective expertise cannot be overstated, and it is through our combined efforts that we continue to push the limits of what is possible in analytical chemistry. Let us make the most of this opportunity to learn, grow, and shape the future.

Warm regards,
Matthew R. Wood, PhD
President, Eastern Analytical Symposium

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2025 EAS Invited Technical Sessions

Preliminary List as of April 25, 2025

Note: List does **not** include contributed oral or poster sessions – these will be posted in the EAS Preliminary Program. Contributed poster abstract submission deadline is **September 4**.
Submit at eas.org/submit

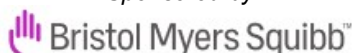
EAS will be honoring ALL 6 of our awardees in a special award session on Tuesday, November 18 in the afternoon. All registered attendees and exhibitors are invited to attend.

EAS SPECIAL AWARD SESSION

EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN THE FIELDS OF ANALYTICAL CHEMISTRY

Honoring David S. Hage, University of Nebraska-Lincoln

Sponsored by



EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN SEPARATION SCIENCE

Honoring Nicholas Snow, Seton Hall University

Sponsored by



EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN MASS SPECTROMETRY

Honoring Ljiljana Paša-Tolić, Pacific Northwest National Laboratory

Sponsored by



EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN MAGNETIC RESONANCE

Honoring Lewis E. Kay, University of Toronto

Sponsored by



EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN CHEMOMETRICS

Honoring Karl Booksh, University of Delaware

Sponsored by



EAS YOUNG INVESTIGATOR AWARD

Honoring Katelynn Perrault Uptmor, College of William and Mary

Sponsored by



CHEMOMETRICS / MACHINE LEARNING

Advanced Chemometric Approaches for Hyperspectral Imaging, sponsored by SAS Delaware Valley

Chairs: Caelin Celani, Helder Carneiro, University of Delaware

Garth Simpson, Purdue University

Joseph Smith, Merck & Co., Inc.

David Hong, University of Delaware

Livliv Anton, Oak Ridge National Laboratory

Demystifying Machine Learning: A Tutorial on Multivariate Analysis

Chair: Caelin Celani, University of Delaware

CHROMATOGRAPHY

Supercritical Fluids as Sustainable Solvents

Sponsored by Chromatography Forum of DE Valley

Chair: Mary Ellen McNally, FMC Corporation

Beyond Conventional Methods: Leveraging SFC for Faster, Greener and More Efficient Pharmaceutical Analysis, Michael Hicks, Merck

Development and Validation of a Supercritical Fluid Chromatographic Method for Quantitation of the Active Enantiomer in Indoxacarb End-use Product, Xiaoyan Wang, FMC Corporation

Bill Farrell, Virscidian

Multi-Target Surrogate Optimization for Supercritical Fluid Extraction – Supercritical Fluid Chromatography – Mass Spectrometry of Drug Compounds, Kevin Schug, University of Texas-Arlington

2025 EAS Invited Technical Sessions

Preliminary List as of April 25, 2025

CHROMATOGRAPHY (continued)

Use of Novel Chromatography to Advance Pharmaceutical Research for Drug Discovery and Development

Sponsored by the Chinese American Chromatography Association
Chair: Yi He, John Jay College of Criminal Justice

Role of Novel LC-MS Bioanalysis for Challenging Phosphate Pro-Drugs, Kasie Fang, GSK

Enabling Separation of Large Nucleic Acids by a Novel Slalom Chromatographic Technique, Jamuna Vaishnav, Waters Corporation

Advances in Chromatographic Techniques for Biomolecule Analysis, Luo Chuping, Welch Materials

Advanced Chromatographic Method Development for Advanced Drug Delivery, Guo Howard Hongyue, GSK

Multidimensional Separations for Complex Sample Analysis

Sponsored by ACS Division of Analytical Chemistry
Chairs: James Grinias, Rowan University

Understanding Olefin Content in Complex Samples via Multidimensional Separations, Petr Vozka, University of California-Los Angeles

Monitoring Time Course Trends of Food Spoilage in Tomato Samples with GCxGC and ChromaTOF Sync Alignment Software, Liz Humston-Fulmer, LECO

An Online Multiplex Platform for Mapping the Future with mRNA Quality Attributes, Daniel Nguyen, Genentech

Multidimensional Chromatography as a Tool for Enhanced Separation in Cannabis and Natural Products, Twinkle Paryani, Abstrax

Sustainable Separations and Sensors

Sponsored by Seton Hall University
Chair: Nicholas Snow, Seton Hall University

Taming Odor: Investigating Odor Measurement and Control, Kevin Schug, University of Texas-Arlington

Nanocarbon-Mediated Separations, from Microscale Analytical Techniques to Industrial-Scale Production, Somenath Mitra, New Jersey Institute of Technology

Good Taste: Field-Deployable Methods and Devices for Determination of Smoke Taint in Wine Grapes, Vincent Remcho, Oregon State University

Fast Direct MS Screening with Chromatography/MS Confirmation with a Single SPME Device, Janusz Pawliszyn, University of Waterloo

Powerful Biopharma Separations Without the Use of A Columns

Sponsored by the Chromatography Forum of Delaware Valley
Chair: Ray McLain, Merck & Co., Inc.

CULTURAL HERITAGE

Green Technology for Heritage Conservation

Chairs: Rosie Grayburn, University of Delaware, John Scott, Kenescott Fdn

Safer Solvent Selections for Removal & Application of Synthetic Resins, Rosie Grayburn, University of Delaware

Solvent Use in Conservation, Results of 2024 Survey, Ka Yee (Christy) Ching

Varnish, Vanish, Regs, Needs - Solvents in Fine Art, Ulysses Jackson, GOLDEN Artist Colors, Inc.

Life Cycle Assessments in Cultural Heritage Conservation and Preservation, Sarah Nunberg, The Objects Conservation Studio

CULTURAL HERITAGE (continued)

Characterization of Cultural Heritage Objects

Chairs: Zachary Voras, West Chester University, John Scott, Kenescott Fdn

Authentication of a 'Wounded' Book Aboard the USS Enterprise in the War of 1812, Zachary Voras, West Chester University of Pennsylvania

Curly Crinoid: Characterization of Natural and Treatment-Induced Deterioration of a Jurassic Fossil Slab, Mariana DiGiacomo, Yale Peabody Museum of Natural History

Scientific Adventures with Cultural Heritage Objects, Erich Uffelman, Washington and Lee University

Reverse Engineering of a 19th Century Pigment, Kirsten Moffitt, Colonial Williamsburg Foundation

EDUCATION / ENVIRONMENTAL ANALYSIS

Innovation Meets Regulation: How to Make our Life Better and Safer

Chair: Jason Shen, Insmed Inc.

Pharmaceutical Regulations: An Overview for the Analytical Chemist, Leon Doneski, Arcutis Biotherapeutics

Regulatory Considerations of Analytical Testing to Support the Development of Combination Products, Keith Faucher, Aura Bioscience

How Transformative New Software Solutions Are Elevating Quality and Compliance, Tracy Hibbs, Waters Corporation

Navigating the Future - Some Regulatory Considerations for Implementing Innovative Analytical Technologies in Pharmaceutical Manufacturing, Ting Wang, Amgen

Environmental Aspects and Analyses of PFAS & Microplastics

Chairs: James Stuart, Anthony Provatas, University of Connecticut

Environmentally Relevant PFAS Disrupt Adult Female Ovarian Function in Mice, Genoa Warner, New Jersey Institute of Technology

Efficient Strategies for Selective Preconcentration of Per- and Polyfluoroalkyl Substances in Aqueous and Gas Phase, Emanuela Gionfriddo, University of Buffalo SUNY

Micro- and Nanoplastic Inhalation Exposure during Pregnancy: Outcomes in a Maternal-Fetal Rodent Model, Phoebe Stapleton, Rutgers University

Capture and Ingestion of Nanoparticles and Microplastics by Bivalve Molluscs: Implication for Bioaccumulation and Toxicity, J. Evan Ward, University of Connecticut

Struggles in Management

Chair: Dennis Swijter, Association of Laboratory Managers (ALMA)

FORENSIC ANALYSIS

Advances in Forensic Chemistry: Solving Practical Challenges in the Crime Lab

Chair: Tom Brettell, Cedar Crest College

Polydrug Case Examples containing Novel Psychoactive Substances (NPS) in the United States Drug Supply, Mia Borrelli, The Center for Forensic Science Research & Education

Applications of Chemometrics to NPS Drug Analysis, Jennifer Bonetti, Virginia Department of Forensic Sciences

Advancing Nontargeted Analysis with GCxGC Using a Sustainable Approach, Kira Fisher, William & Mary College

Forensic Applications Using GC/FTIR with Light Pipe Technology to Acquire Infrared Vapor Phase Spectra, Lewis Smith,

2025 EAS Invited Technical Sessions

Preliminary List as of April 25, 2025

FORENSIC ANALYSIS (continued)

The Research from our Emerging Forensic Scientists

Sponsored by the New Jersey Association of Forensic Scientists

Chair: Monica Joshi, West Chester University of PA

Industrial Microscopy

Chair: Peter Diaczuk, New York Microscopical Society

MASS SPECTROMETRY

Harnessing Imaging Mass Spectrometry for Enhanced Drug Development

Chair: Ines Santos, Bristol Myers Squibb.

Mitigating Kidney Toxicity Risk and Prioritizing Drug Candidates Using MALDI Mass Spectrometry Imaging, Bingming Chen, Merck & Co., Inc.

Technological Advances in Desorption Electrospray Ionization (DESI) Imaging: From Tissue Towards Cells, Bindesh Shrestha, Waters Corporation

Implementation of DESI-MSI as a Shared Resource for Untargeted and Targeted Small Molecule Analysis, Christina Ferreira, Purdue University

Mass Spectrometry Imaging in Pharma: Current State of Drug Quantification and Spatial Multi-Omics Imaging at GSK, William Hardesty, GSK

Small Molecule Characterization and Protein Conformational Studies by Ion-Mobility Mass Spectrometry

Chair: Srinivas Chakravartula, Rutgers University

High Dimensional Molecular Phenomics with High Resolving Power Ion Mobility-Mass Spectrometry, John McLean, Vanderbilt University

Lipidomics Analysis Reveals the Role of Diacyl-Phosphatidylcholine in Ferroptosis, Fereshteh Zandkarimi, Columbia University

Advancements in Ion Mobility Spectrometry Measurements for Native Protein Mass Spectrometry, Rachel Buckley, Rutgers University

Protein Charge State Confirmational Studies on LC-ESI-MS vs Ion Mobility Mass Spectrometry, Srinivas Chakravartula, Rutgers University

PHARMACEUTICAL ANALYSIS

Predictive Sciences for Chromatographic Method Development

Chairs: Pankaj Aggarwal, Merck & Co., Inc., Imad Haidar Ahmad, Amgen

In Silico Modeling: Enabling Solutions to Complex Analytical Challenges, Imad Haidar Ahmad, Amgen

Enabling Generalized Retention Time Modeling via Analyte Structures and Column Descriptors Using Graph Based Neural Networks, Armen Beck, Merck & Co., Inc.

Molecular Dynamics Prediction of Analyte Retention in Reversed-Phase and Mixed-Mode Liquid Chromatography: Can Artificial Intelligence Rise to the Task?, Fabrice Gritti, Waters Corporation

Enhancing the Prediction of Compound Retention Time Under Liquid Chromatography (LC) Using Transfer Learning, Haixu Tang, Indiana University

AI Applications for Pharmaceutical Analysis

Chair: Kim Huynh-Ba, Pharmalytik

Pharmaceutical Companies & Compound Pharmacies – A Comparison between the Analytical Testing Practices for Each Industry

Chair: Nick Mitchell, Sohve

PHARMACEUTICAL ANALYSIS

Advanced Spectroscopic and Imaging Tools Enabling the Design of Complex Drug Products

Chair: Maple Wang, Yongchao Su, Merck & Co., Inc.

Interfacial Phenomena in Lipid Nanoparticle (LNP) Systems, Yulia Eygeris, Oregon State University

Innovative Techniques to Unravel the Needle Clogging for High Concentration Formulation Delivery, Guangli Hu, Merck & Co., Inc.

Image-Based IVR Prediction and Microstructure Synthesis for Controlled Release Product Design, Shawn Zhang, DigiM Solution LLC

Quantitative Morpho-Chemical Imaging of Subvisible Particles in Biopharmaceutical Formulations, Dan Fu, University of Washington

SPECTROSCOPY

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.

"Lights, Action, Camera: Spectroscopy on the Edge," Geraldine Richmond, University of Oregon

When is it Good Enough? Rethinking Spectrometers as Fit for Purpose Analyzers and Meters, Adam Hopkins, Metrohm USA

No Air? No problem! Discovering High Pressure Monopropellant Combustion Mechanisms with Emission Spectroscopy, Rob Walker, Montana State University

Structured Water and Surface Potential at Aqueous Interfaces, Dennis Hore, University of Victoria

Prepared for Anything: Infrared Sampling Tools and Techniques for Unusual (and Usual) Samples,

Chair: Brooke Kammrath, New Haven University

Understanding and Navigating Sampling Challenges in FT-IR Spectroscopy, Peter Larkin, Syensqo

"Just Stick it in the Instrument and Scan it!" - Guiding Engineers (and others) Through the Art of Analytical Spectroscopy, Jay Powell, Analytical Answers

Method Optimization and Data Processing for Thermogravimetric Analysis Coupled with Fourier Transform Infrared Spectroscopy, Justin Lang, PerkinElmer

Diamond ATR: The Good, the Bad and the Ugly, Ellen Miseo, Miseo Consulting

The Use of Innovative Atomic Spectrometry Strategies to Solve Challenging Chemical Problems

Chair: Steven Ray, University of Buffalo

New Instrumental Strategies in Analytical Atomic Spectrometry, Steven Ray, University of Buffalo

Chemical and Elemental Mapping of Biomedical Samples: State of the Art, Mauro Martinez, Icahn School of Medicine at Mount Sinai

Understanding Ionization and Fragmentation Processes in Solution-Cathode Glow Discharge Mass Spectrometry, Jacob Shelley, Rensselaer Polytechnic Institute

The Exposome and Atomic Spectrometry, Patrick Parson, New York State Department of Public Health

2025 EAS Invited Technical Sessions

Preliminary List as of April 25, 2025

SPECTROSCOPY (continued)

Better Together: Solving Difficult Problems by Combining Vibrational Spectroscopy with Other Techniques

Chair: Nancy Jestel, SABIC

Assessing Drug Product Structure after Induced Stresses by Raman Spectroscopy and cIEF/MS, Diana Novo, Johnson and Johnson

Monitoring the Imidization of Poly(amide acid) Films by TGA-IR, Michael Hall, SABIC

SPECTROSCOPY (continued)

Providing Industry with Practical Analytical Chemistry Skills, Sponsored by SAS New England

Chair: Ellen Miseo, Miseo Consulting

PAT, It's What you Don't See that Counts!

Chair: James Rydzak, Specere Consulting

SPECIAL LECTURES

We are excited to announce our special lectures!

Keynote Lecture: Monday, November 17

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

Dr. Ashley Ross

University of Cincinnati

Sponsored by Fred and David Bickford, Sue Evans Norris

In Honor of Dr. Fred A. Bickford and Monroe H. Evans

A complimentary reception will be held immediately after the lecture

Breakfast Lectures: November 17 & 18

Career Options for Women Chemists

Sponsored by



Kate Jackson, Colgate Palmolive

Erin Ennis, FMC Corporation

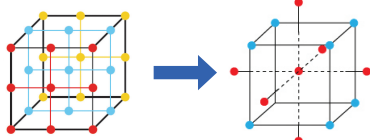
Monica Joshi, West Chester University

Anastasia Andrianova, Agilent

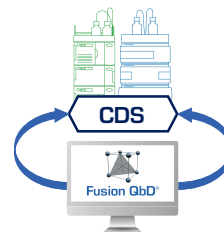
A complimentary lite breakfast will be provided before the Breakfast Lectures for registered attendees.

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

Powerful, Flexible, Automated
Design of Experiments

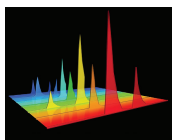


Experiment While You Sleep —
Walk-away CDS Automation

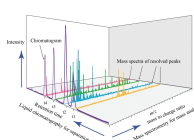


UV & MS Spectra-based
Peak Tracking

UV Spectra

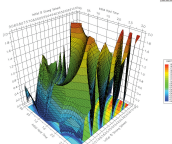


MS Spectra

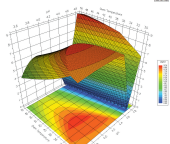


Advanced Chromatography Modeling
& Robust MODR Optimization

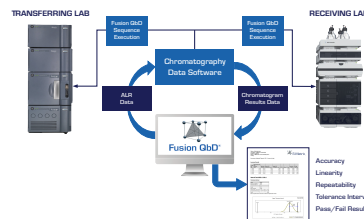
Not Robust



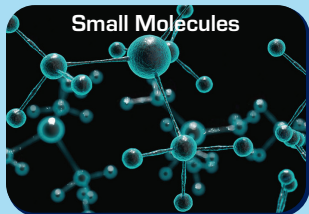
Robust



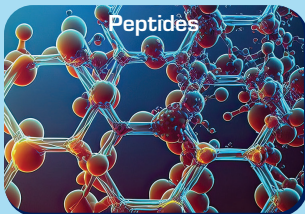
Automated Method
Validation & Transfer



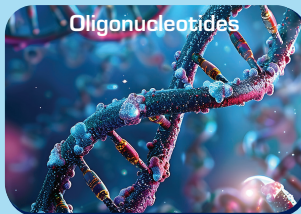
Small Molecules



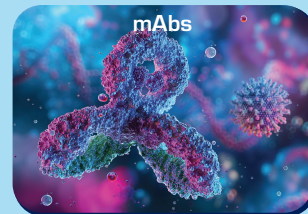
Peptides



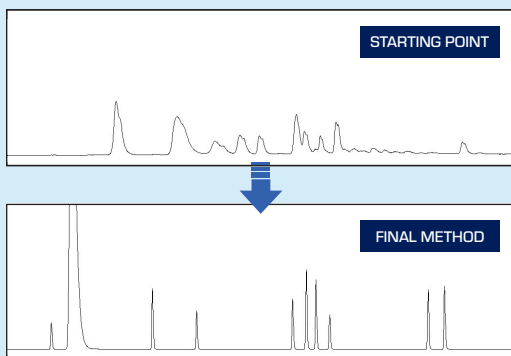
Oligonucleotides



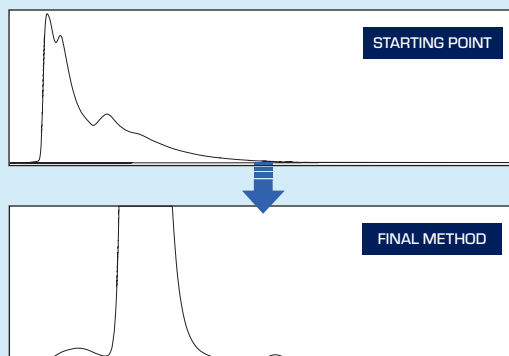
mAbs



Small
Molecule
Example



Large
Molecule
Example



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**.

In-Person Short Courses

Click on course title to link to the description.
Final schedule and registration will be available in mid-July.

TWO-DAY COURSES
HPLC and UHPLC for Practicing Scientists 1 & 2: Part 1: Fundamentals & Part 2: Best Practices in Method Development and Operation/Troubleshooting Michael W. Dong, MWD Consulting
Practical LC-MS Method Development and Sample Preparation Perry Wang, LC-MS Technical Expert
ONE-DAY COURSES
Real-Time Insights into Electrochemical Reactions: Operando/In-Situ Raman and Optical Imaging (NEW) Mritunjay Mishra, University of Delaware Gbenga S. Taiwo, University of Delaware
Systematic HPLC Troubleshooting (NEW) Merlin Bicking, ACCTA, Inc.
Data Analysis Skills for Chromatographers (NEW) Merlin Bicking, ACCTA, Inc.
LA-ICP-MS: Theory, Practice, and Environmental and Biological Applications (NEW) Dula Amarasiriwardena, Hampshire College
Analytical Method Validation and Lifecycle Management – FDA, ICH and USP Expectations Kim Huynh-Ba, Pharmalytik Consulting
Introduction to Data Analytics for Analytical Chemists Mary Kate Donais, Anslem University
Getting the most from GC and GC/MS Gregory Slack, Consultant Nicholas Snow, Seton Hall University
Chemometrics without Equations (or Hardly Any) Neil Gallagher, Eigenvector Research
Collecting Infrared Spectra and Avoiding the Pitfalls Ellen Miseo, Miseo Consulting Jeff D'Agostino, Specac
PFAS - A Wonder Chemical which became a Nightmare Jay Meegoda, NJ Institute of Technology
Analytical Target Profile: An Introduction and its Strategic Link to Quality Target Product Profile and Analytical Life Cycle Management Partha Mukherjee, Amicus Therapeutics
Successfully Implementing Key Elements of the USP and ICH Guidances in an Enhanced Analytical Procedure Development Workflow Richard Verseput, S-Matrix Corporation
An Overview of Drug Development, Drug Quality, Regulatory, and Quality Control Processes Michael Dong, MWD Consulting
Chromatographic Methods of Analysis of Oligonucleotides, siRNA, sgRNA and mRNA Martin Gilar, Waters Corporation
Bioanalytical Method Validation by LC-MS/MS Perry Wang, LC-MS Technical Expert
Introduction to Quantitative Spectroscopy for Quality Assurance in the R&D and Manufacturing Environments Deborah Peru, DP Spectroscopy and Training, LLC
Process Analytical Technology: Out of the Lab and into the Line James Rydzak, Specere Consulting
How to Deliver a Winning Technical Presentation Dottie Li, TransPacific Communications
Practical NMR Spectroscopy Damodaran Achary, University of Pittsburgh

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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, Thursday, 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 on your future employer. You'll receive tips and tricks from someone who has recently gone through the job hunt. Bring your resume if you are interested in receiving some feedback as well!

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

SPEED MENTORING

Speed Mentoring is a fun, fast-paced session that enables a structured interaction with a dozen or more analytical chemists with different specialties from various industries, academia, and government labs. These brief interactions enable the mentees to get an understanding of what it's like to work in many different areas.

Mentees and mentors need to sign up for the session in advance so we can get a number of people that are participating (spots are limited). A free lunch is included, sponsored by the Coblenz Society. We need professionals with various technical disciplines from a variety of industries, academia, and government labs to sign up as mentors. Graduate students and young professionals who are interested in finding out more about working in the various areas of chemistry need to register for EAS and sign up as mentees.

- We start with a quick lunch & explanation of the process
- Mentors and mentees take seats facing one another
- Mentors start by introducing themselves, what their specialty (FTIR, NMR...), what industry etc.
- Mentees respond with their school name, thesis area and begin asking questions
- A 5-minute discussion ensues enabling mentees to learn about possible career avenues
- Mentees rotate a seat and the process starts up again.

Mentors and mentees must register for the EAS. Speed Mentoring will be offered on November 17 and will run approximately 1.5 hours in length. Formal registration for EAS will open in July.



PET MASCOT COMPETITION

LET THE CUTENESS BEGIN!



How to enter:

Send us your favorite photo of your pet along with a brief explanation of why they deserve the crown as the official EAS mascot.



Submission Deadline: May 19th

Submit via:

The Pet Mascot Competition page on the EAS website

Or email your photo and description to:
fernanda.delgado@eas.org



What's in it for your pet?

They'll represent EAS on social media all year long
While there's no monetary prize, you'll earn serious bragging rights!

All pets are welcome—we love them all!



Competition begins May 21st

Follow along every Monday, Wednesday, and Friday as we narrow it down—until one fabulous pet is officially crowned the EAS Mascot





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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

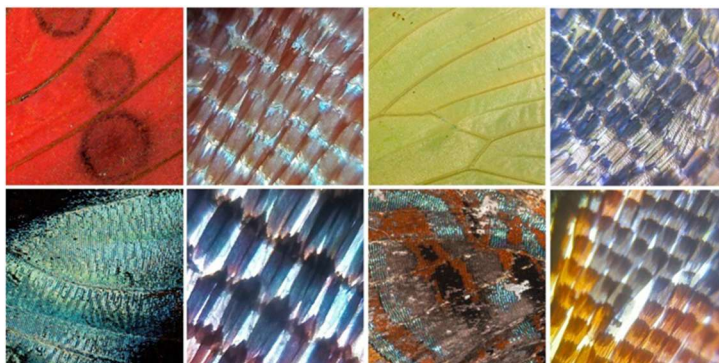
&

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.*

2025 EAS Exhibitors

Advanced Materials Technology

Agilent Technologies

Attocube systems Inc.

Axcend

Bettersize Inc.

CE Elantech

Daicel Chiral Technologies

Dissolution Technologies

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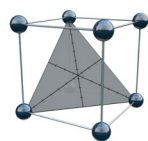


We still have a few booth & tabletop spaces available.

Please contact Janine at exposition@eas.org.

The Governing Board of EAS would like to thank the following sponsors for their support in 2025

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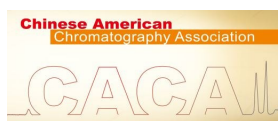
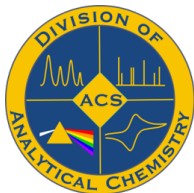
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Corporate Sponsors actively participate in the Eastern Analytical Symposium and Exposition. There are numerous opportunities for Corporate Sponsorship of technical sessions, awards, and other activities at the 2025 EAS as well as advertising opportunities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

EAS CALL FOR PAPERS

Submission Deadlines: Oral Papers: May 1 & 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

EASTERN ANALYTICAL SYMPOSIUM & EXPOSITION

Across The Analytical
Spectrum: Diversity of
Scientific Ideas

November 17-19, 2025



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 <i>Full Conferee</i> in order to take course)	\$700	\$1,000
One-Day Short Course - Student Rate (must be a <i>Full-Time Student</i> in order to take course at Student Rate)	\$100	\$425
Two-Day Short Course (must register as <i>Full Conferee</i> in order to take course)	\$1,050	\$1,425
Two-Day Short Course - Student Rate (must be a <i>Full-Time Student</i> in order to take course at Student Rate)	\$200	\$625
ONLINE Short Course Registration Fees* Two (2) hour course	\$150	\$250
ONLINE Short Course Registration Fees* Full Day course	\$700	\$1,000
ONLINE Short Course Registration Fees FULL-Time Student* Full Day course (must be a <i>Full-Time Student</i> in order to take course at Student Rate)	\$100	\$425

*Please note Early Rates for online courses are valid until 3 weeks prior to the course start date.

**Proof of valid full-time student ID and reference from your Professor due at time of registering for a course.

2025 EAS

November 17-19, 2025

Plainsboro, NJ

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IMPORTANT DATES

March 1	Abstract submission opens for contributed oral & poster Papers for November & the Virtual Student Symposium (VSS)
April 19	Deadline to submit an abstract for the VSS
April 29	EAS Virtual Student Symposium (Free)
May 1	Abstract submission deadline for contributed oral papers
June 15	Presenters of invited presentations are contacted by email with session schedules & instructions for the submission of final abstracts
July 1	Presenters of contributed oral presentations are contacted by email with session schedules & presentation guidelines
July 15	Registration opens
July 31	Deadline for submission of final abstracts for invited presentations
Aug. 1	Preliminary Program posted on www.EAS.org
Sept. 1	Abstract submission deadline for contributed posters
Oct. 15	Deadline to register for 2025 EAS at a reduced price
Nov. 17-19	The 64th Eastern Analytical Symposium & Exposition

How to contact us....

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