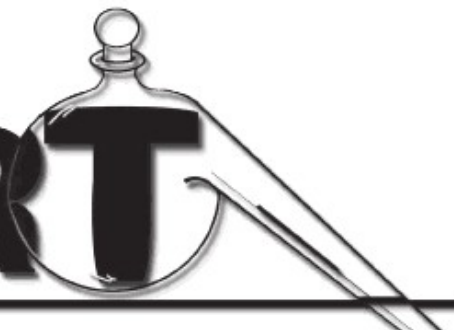




# RETORT



Newsletter of the Eastern Analytical Symposium & Exposition

April 2026



EASTERN ANALYTICAL SYMPOSIUM & EXPOSITION

## Navigate the Future of Analytical Chemistry: Intelligence and Integrity



Nov. 16-18, 2026

Crowne Plaza Princeton  
Conference Center  
Plainsboro, NJ

- \* 3 Days of Exposition & Technical Program
- \* 4 Days of Short Courses
- \* Career Development Opportunities



While we are deeply involved in preparations for our annual symposium and exposition this November, I would like to share some exciting progress and key milestones with you.

Our first-ever one-day mini-symposium, celebrating the 65th anniversary of EAS, is confirmed for Thursday, **June 4**, 2026, at the University of Connecticut – Technology Park in Storrs, CT. Please visit the EAS website ([eas.org](http://eas.org)) for the preliminary agenda and registration information. This one-day event, followed by short courses on June 5, serves as a fantastic bridge to our main November symposium. Spots are limited and the deadline to register is May 15th.

For our exciting annual November event, abstract submissions are now open for oral and poster presentations covering fundamental analytical techniques and new, vibrant topics in analytical chemistry. Please act quickly—the deadline for oral abstracts is May 1, 2026, and September 1, 2026, for posters.

In this Retort you will find more details on the speakers in our invited sessions, 26 half-day (new this year!) as well as one- and two-day in-person short courses with links to course descriptions. Also check out the growing list of Exhibitors. It's not too late to reserve a booth or tabletop!

To our academic colleagues: please identify and nominate your undergraduate juniors and graduate students who demonstrate exceptional research talent for the EAS Student Research Awards by April 30, 2026.

I sincerely invite you to join us at the UConn Mini-Symposium on June 4 and our annual event from November 16-18, 2026, to celebrate the 65th anniversary of the Eastern Analytical Symposium and the 250th anniversary of the United States.

Warm regards,

**Jason Shen**  
President, Eastern Analytical Symposium

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# 2026 EAS Invited Technical Sessions

*Preliminary List as of April 25, 2026*

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 1**.  
Submit at [eas.org/submit](https://eas.org/submit)

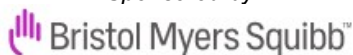
EAS will be honoring ALL 6 of our awardees in a special award session on Tuesday, November 17 in the afternoon. All registered attendees and exhibitors are invited to attend.

## EAS SPECIAL AWARD SESSION

### EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN THE FIELDS OF ANALYTICAL CHEMISTRY

Honoring Richard van Breemen, Oregon State University

Sponsored by



### EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN SEPARATION SCIENCE

Honoring David Bell, Phiex Technologies

### EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN MASS SPECTROMETRY

Honoring Joshua Coon, University of Wisconsin-Madison

### EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN MAGNETIC RESONANCE

Honoring Robert Schurko, Post-Humous

### EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN VIBRATIONAL SPECTROSCOPY

Honoring Brooke Kammrath, University of New Haven

### EAS YOUNG INVESTIGATOR AWARD

Honoring Xin Yan, Texas A&M University

Sponsored by



## KEYNOTE LECTURE

We are excited to announce our Keynote Lecture



**Keynote Lecture: Monday, November 16**

**AI-Ready Data and Analytical Methods for Health Research**

**Dr. Christopher Kinsinger, National Institutes of Health**

*A complimentary reception will be held immediately after the lecture*

# 2026 EAS Invited Technical Sessions

*Preliminary List as of April 25, 2026*

## AUTOMATION / MACHINE LEARNING

### **Integrating Automation into Chemical Analysis**

Sponsored by ACS Division of Analytical Chemistry

Chairs: James Grinias, Rowan University

*Scaling Up Proteomics Experiments via 3D Printing and Vibrating Sharp Edge Spray Ionization*, Peng Li, Lehigh University

*Innovating Excipient Analysis Through End-to-End Automation on an Integrated Robotic-HPLC-ELSD System*, Sharon Matamoros, GSK

*A Modular and Affordable Electrochemical Self-Driving Lab Enables Fully Autonomous Electrode Modification and Characterization*, Michael Pence, University of Utah

*High Throughput Optical Characterization of Single Plasmonic Nanostructures*, Katherine Willets, Temple University

### **Overcoming Challenges in Machine Learning Near the Limit of Determination**

Chair: Barry Lavine, Oklahoma State University

*Experimental and Digitally Blended Infrared Spectral Data for Detection of Calibrated and Uncalibrated Adulterants in Edible Oils Near the Limit of Determination*, Elizabeth Donkor, Oklahoma State University

*Support Vector Machines to Screen Exotic Hardwoods and Overcome Challenges Near the Limit of Determination*, Karl Booksh, University of Delaware

*Integration of Spectral Libraries with Image Maps Using Modified Alternating Least Squares to Develop Soft Machine Learning Models*, Barry Lavine, Oklahoma State University

*Development and Application of novel Gaussian Mixture Models for Pigment Clustering and Classification of Reflectance Hyperspectral Datasets of Roman Egyptian Mummy Portraits*, Roxanne Radpour, University of Delaware

## CHROMATOGRAPHY

### **Celebrating 60 years of the CFDV: The Founding Fathers**

Chair: Mary Ellen McNally, FMC Corporation

*Life of Joseph Touchstone*, William Champion

*Particles, Teaching, and a Little Detour to FFF. The Extraordinary Career of Jack Kirkland*, Joseph Glajch, JLG AP Consulting LLC

*The Life of Walt Supina, Scientist and Entrepreneur*, Mary Ellen McNally, FMC Corporation

*Groovy Grob - Teacher, Mentor, Friend; Celebrating the Career of Bob Grob*, Tom Brettell, Cedar Crest College

### **Explore the Application of Novel Techniques to Enhance Pharmaceutical Research in Drug Discovery and Development**

Chair: Yi He, John Jay College of Criminal Justice

*To be announced*, Kai Wang, GSK

*Fit-for-Purpose Non-Regulated Bioanalysis Workflow for Targeted Protein Degradation Programs*, Qin Ji, Abbvie

*From an Overlooked Innovation to a High-Value Technology: The History and Revival of Slalom Chromatography to Support DNA/RNA Separation in Cell and Gene Therapy*, Fabrice Gritti, Waters Corporation

*Accelerating In Vitro Permeability Assay with High-Throughput Approaches*, Wenying Jian, Johnson & Johnson

## CHROMATOGRAPHY (continued)

### **Modern Separation Strategies for Chemical Residue Analysis in Complex Matrices**

Chair: Emanuela Gionfriddo, University of Buffalo-SUNY

*SFE of Short Chain PFAS*, Luis Colón, University of Buffalo-SUNY

*Using Comprehensive Separations to Inform Scent Detection Canine Training for Detecting American Foulbrood Disease in Honeybees*, Katelynn Perrault Uptmor, William & Mary

*Revisiting Peak Capacity Production at Ultra-Short Analysis Time as a Lever to Improve the Speed and Peak Capacity of 2D-LC Separations*, Dwight Stoll, Gustavus Adolphus College

*Multidimensional Chromatography for Chemical Analysis – from Small Molecules to Synthetic Polymers*, Peilin Yang, Dow Chemical

### **Expanding Supercritical Fluids Extraction and Chromatographic Applications Beyond a Firm Foothold in Pharmaceuticals**

Chair: Nick Mitchell, Sohve LLC

*CBD/HEMP Process Scale SFE&SFC Development*, Jeff Caldwell, Princeton Chromatography

*The Use of Supercritical Fluids in the extraction and purification of Botanical Reference Standards*, René de Vaumas, Extrasynthese

*From Extraction to Experience: The Role of Chiral GC in Flavor Sensory and Authenticity Analysis*, Jeff Povelones, International Flavors & Fragrances

*An Analytical Comparison of Distillation and CO2 Extraction Methods for Botanical Oils*, Satyal Prabodh, Aromatic Plant Research Center

### **Advances in Separation Science Instrumentation**

Chair: James Grinias, Rowan University

*Integrating Taylor Dispersion Analysis with Capillary Electrophoresis for Separations with Structural Insights*, Christopher Baker, New Mexico State University

*Crossing the Cutoff: Extending LC Detection into the VUV*, Dale Harrison, VUV Analytics

*Coupling Separation Modules with Microwave Rotational Resonance Spectroscopy: Challenges and Prospects*, M. Farooq Wahab, University of Texas-Arlington

*To be announced*, Jimmie Oxley, University of Rhode Island

## CULTURAL HERITAGE

### **Characterization of Cultural Heritage Objects**

Chair: John Scott, Kenescott Fdn

### **Emerging Technologies in Cultural Heritage Science**

Chair: John Scott, Kenescott Fdn

## EDUCATION / ENVIRONMENTAL ANALYSIS

### **Analysis of Cannabis Products**

Chair: Graig Sotzing, University of Connecticut

*Fluorescence from Natural Resource Cannabinoids for Biomedical Imaging*, Graig Sotzing, University of Connecticut

*Cannabinoid Dimers for Coadministration with Amido Amines for Addressing Pain Associated with Osteoarthritis*, Lakshmi Nair, University of Connecticut

*Cannabinoids and Addiction*, Steven Kinsey, University of Connecticut

*Therapeutics of Cannabinoids*, Mark Scialidone, St. Michael's College

# 2026 EAS Invited Technical Sessions

*Preliminary List as of April 25, 2026*

## EDUCATION / ENVIRONMENTAL ANALYSIS (continued)

### **Nanoplastics and Endocrine Disruptors in the Environment and their Health Implications**

Chairs: Genoa Warner, New Jersey Institute of Technology, James Stuart, University of Connecticut

Huiyuan Guo, Binghamton University-SUNY

*Lifecycle of Micro- and Nanoplastics in the Body and their Contribution to Alzheimer's Disease*, Jaime Ross, University of Rhode Island

*Female Reproductive Impacts of Real-World Endocrine Disruptor Mixtures*, Shuo Xiao, Rutgers University

*Phthalates and Nanoplastics Disrupt the Mouse Placenta*, Genoa Warner, New Jersey Institute of Technology

### **Analysis of PFAS in the Environment and Various Everyday Consumer Products**

Chair: Jamie Foss

### **Lab Management**

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

## FORENSIC ANALYSIS

### **Green Innovations in Forensic Chemistry: Sample Preparation & Field and Lab Portable Spectroscopy & Chromatography**

Chair: Tom Brettell, Cedar Crest College

*Expanding Nontargeted Analysis with Hydrogen Carrier Gas for High Resolution Separations in Forensic Science*, Katelynn Perrault Uptmor, William & Mary

*Green Extraction Methodologies for Drugs of Abuse*, Emanuela Gionfriddo, University of Buffalo-SUNY

*Innovations in Forensic Applications of Portable Spectroscopy*, Brooke Kammrath, University of New Haven

*Field and Lab Portable LC Instrumentation for Drugs of Abuse*, Ira Lurie, George Washington University

### **The Research from our Emerging Forensic Scientists**

*Sponsored by the New Jersey Association of Forensic Scientists*

Chair: Monica Joshi, West Chester University of PA

## MAGNETIC RESONANCE

### **Advances in Benchtop NMR for Materials Characterization and Process Monitoring**

Chair: Michael Hall, SABIC

*Quantitative Benchtop Nuclear Magnetic Resonance for Vaccine Development*, Adam Sutton, Merck & Co., Inc.

*Benchtop NMR as a PAT Sensor: Enabling Process Understanding and Real-Time Control*, Anh Le-McClain, Magritek Inc.

*Development of Online Low-Field Benchtop NMR Coupled to High-Performance Liquid Chromatography for Pharmaceuticals*, Noah Menard, University of Texas-Arlington

*Benchtop NMR in a Manufacturing Environment*, Travis Gregar, 3M

### **Advances in Solid-State NMR Characterization of Pharmaceuticals**

Chair: Eric Munson, Purdue University

## PHARMACEUTICAL ANALYSIS

### **Integrating Artificial Intelligence and Real-World Data into Pharmaceutical Development and Quality**

Chair: Kim Huynh-Ba, Pharmalytik

*Data Governance in AI: From Chaos to Control*, Geetanjali Abbi, Alkermes

*Data Analytics in Batch Release: Leveraging AI for Faster and Smarter Decision Making*, Nikolai Makaranka, Daikon

## PHARMACEUTICAL ANALYSIS

*Data Quality → Model Credibility: How Analytical Data Choices Shape AI/ML Performance and Compliance*, Bhaskar Arya, Bristol Myers Squibb

*Challenges in Applying Analytical Product Lifecycle on Vaccine Program*, Joe Micucci, Merck & Co., Inc.

### **Biophysical Analysis in Biopharmaceutical Product Development**

Chair: Ying Wang, University of North Carolina-Wilmington

*High-Throughput Small-Angle X-ray Scattering for Biologics Developability Screening*, Pin-Kuang Lai, Stevens Institute of Technology

*Enhanced Rational Protein Engineering to Reduce Viscosity in High-Concentration IgG1 Antibody Solutions*, Tyler Lefevre, AstraZeneca

*Biophysical Characterization in the Development of Biologics*, Ivan Budyak, Eli Lilly and Company

*Comprehensive Biophysical Characterization of Lipid Nanoparticles to Access and Enhance Physical Stability*, Shu-Yu Liao, Abbvie

### **Integrating Modeling and Experimentation for High Concentration Biologic Drug Products**

Chair: Pin-Kuang Lai, Stevens Institute of Technology

*High-Throughput Small Angle X-Ray Scattering Reveals Structure Factor Transitions Linked to High-Concentration Antibody Viscosity*, Pin-Kuang Lai, Stevens Institute of Technology

*Development and Delivery of Subcutaneous Formulations: Insights from Molecular Simulation and In-Vitro Simulators*, Hao Lou, University of Kansas

*wNMR Relaxometry for the In Situ Assessment of High-Concentration Biologics and Product Security*, Marc Taraban, University of Maryland

*Predicting High Concentration Viscosity in Multi-Specific Antibody Solution*, Sudeep Adhikari, Stevens Institute of Technology

### **Advances in Analytical Development of Antibody Drug Conjugates**

Chair: Yuan Ren, Bristol Myers Squibb

Lianjia Ma, Bristol Myers Squibb

Hao Lou, Bristol Myers Squibb

### **In-Silico Intelligence for Analytical Characterization of Pharmaceutical Product**

Chairs: Pankaj Aggarwal, Merck & Co., Inc.

## SPECTROSCOPY

### **New York/New Jersey Section of the Society of Applied Spectroscopy Gold Medal Award**

#### **Honoring Richard Crocombe, Crocombe Spectroscopic Consulting**

Chairs: Deborah Peru, DP Spectroscopy and Training, LLC, Gabrielle Davis, Camfil USA Inc.

*Advances in Portable Spectroscopy*, Richard Crocombe, Crocombe Spectroscopic Consulting

*Community Engagement with Portable Spectroscopy*, Mary Kate Donais, Saint Anselm College

*A Portable Revolution: Over-the-Horizon Spectroscopy*, Pauline Leary, NOBLE, Inc.

*Beyond Point-and-Shoot: Hyperspectral Raman Mapping for Real-World Detection*, Ari Forman, SCATR, Inc.

# 2026 EAS Invited Technical Sessions

*Preliminary List as of April 25, 2026*

## SPECTROSCOPY (continued)

### Vibrational Spectroscopy in Forensic Science

Chair: Brooke Kammrath, University of New Haven

*Vibrational Spectroscopy for Questioned Document Analysis*, Marisia Fikiet, University of New Haven

*A Universal Approach to the Forensic Identification of Biological Stains Based on Raman Spectroscopy: Recent Advancements Toward Commercialization*, Igor Lednev, University at Albany-SUNY

Adam Lanzarota, U.S. Food and Drug Administration

*Seeing Over the Peaks: Contributions of Microscopy to Vibrational Spectroscopy*, Christopher Palenik, Microtrace LLC

### Applications of Vibrational Spectroscopy in Industry

Chair: Richard Crocombe, Crocombe Spectroscopic Consulting

*Developing an AI Based FT-IR Spectral Analytic Platform for a Well Defined Industrial Application*, Peter Larkin, Syensqo

*The Application of Raman Mapping to Detect Micro-Domains of Crystallinity in Amorphous Solid Dispersions of Nilotinib*, Dale Purcell, Chemical Microscopy

*Mid-IR, Near-IR, or Raman Spectroscopy, Which One Should I use for My Problem?*, Shawn (Xiaoyun) Chen, Dow Chemical Company

*Tunable Diode Laser Absorption Spectroscopy: From Fundamental Spectroscopy to Industrial Process Analytics*, Mary Drury, Galvanic Applied Technologies

### Advances in Analytical Spectroscopy of Chiral Molecules and Molecular Assembles

Chair: Garth Simpson, Purdue University

### Advances in Benchtop NMR for Materials Characterization and Process Monitoring

Chair: Michael Hall, SABIC

## SPECTROSCOPY (continued)

### Imaging and Spectroscopic Analysis of Particles

Chair: Dan Fu, University of Washington

*Vibrational Spectroscopy for Questioned Document Analysis*, Laura Philips, Spheryx, Inc.

*Characterizing Biopharmaceutical Particles in a High-Throughput Unlabeled Fashion with AI-Based Image Analysis*, Christopher Calderon, University of Colorado-Boulder

*Morphological and Chemical Characterization of Subvisible Particles in Biopharmaceutical Formulations*, Dan Fu, University of Washington

*Particle Reference Material Development and Characterization*, Srivalli Telikepalli, National Institute of Standards and Technology

### AI in Spectroscopy

Chair: Barry Lavine, Oklahoma State University

*Artificial Neural Networks for Discrimination of Automotive Clear Coats by Motor Vehicle Manufacturer*, Barry Lavine, Oklahoma State University

*Support Vector Machines with Conformal Prediction for Discrimination of Automotive Clear Coats by Motor Vehicle Manufacturer*, Karl Booksh, University of Delaware

*Extracting Chemical Information from Infrared Images of Polymers to Detect Contaminants and other Defects Essential for Quality Control*, George Affadu-Danful, Arkema Inc.

*Accelerating Pharmaceutical Development via Machine Learning-Enabled Process Analytical Technology*, Joseph Smith, Merck & Co., Inc.

**VERDER**

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## Foundational Precision meets Advanced Imaging.

Join **Verder Scientific at EAS 2026**. From compliant sample preparation to cutting-edge particle imaging, we turn scientific ideas into life-saving realities.

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## EAS Awards Program

### Long Yuan, 2026 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 at a special session on November 17<sup>th</sup>, followed by a reception. All full conferee & full-time student conferee registrants are invited to attend.



**Professor Richard van Breemen**  
Oregon State University  
*EAS Award for Outstanding  
Achievements in the Fields of  
Analytical Chemistry*



**Dr. David Bell**  
Phiex Technologies  
*EAS Award for Outstanding  
Achievements in Separation Science*



**Professor Joshua Coon**  
University of Wisconsin-Madison  
*EAS Award for Outstanding  
Achievements in Mass Spectrometry*



**Professor Robert Schurko**  
*Post Humous*  
*EAS Award for Outstanding  
Achievements in Magnetic Resonance*



**Professor Brooke Kamrath**  
University of New Haven  
*EAS Award for Outstanding  
Achievements in Vibrational  
Spectroscopy*



**Professor Xin Yan**  
Texas A&M University  
*EAS Young Investigator Award*

This other award will be presented under the auspices of the EAS Sponsoring Organization



**Dr. Richard Crocombe**  
Crocombe Spectroscopic Consulting, LLC  
*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](mailto:awards@eas.org). The deadline for all 2027 award nominations is September 1, 2026.

# In-Person Short Courses

Final list, schedule and registration will be available in mid-June.

[Click here to view full course descriptions](#)

## TWO-DAY COURSES

**Basics of T-Ray Metrology and Time-Domain Spectroscopy with Advanced Applications**

Anis Rahman, Applied Research & Photonics, Inc.

**Practical LC-MS Method Development and Sample Preparation**

Perry Wang, LC-MS Technical Expert

**HPLC and UHPLC for Practicing Scientists:**

**Part 1: Fundamentals & Part 2: Best Practices in Method Development and Operation/Troubleshooting**

Michael W. Dong, MWD Consulting

## ONE-DAY COURSES

**Nitrosamine Risk Assessment and Control for Pharmaceutical Products (NEW)**

Jinjian Zheng, Merck & Co., Inc.

**Leading Labs: Improving Staff Performance and Engagement (NEW)**

Scott Hanton, Lab Manager

**Supercritical Fluid Chromatography (NEW)**

Larry Miller, Novartis

**Painless Gas Chromatography Bootcamp - Show Your GC Who's Boss (NEW)**

Lee Polite, Axion Analytical Laboratories, Inc.

**Advanced Proteomics Sample Preparation: Targeted Enrichment and Micro-to-Nanogram Scale Workflows**

Reihaneh Safavisohi, Seton Hall University

**Regulatory Requirements for Therapeutic Peptides (NEW)**

Shreekant Karmarkar, DAT Pharma Consulting, Inc.

**Getting the most from GC and GC/MS**

Gregory Slack, Consultant

Nicholas Snow, Seton Hall University

**Analytical Method Validation and Lifecycle Management – FDA, ICH and USP Expectations**

Kim Huynh-Ba, Pharmalytik Consulting

**Successfully Implementing Key QbD Elements in the Current USP and ICH Guidances to Dramatically Accelerate Fit-for-Purpose Analytical Method Development**

Richard Verseput, S-Matrix Corporation

**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

**Systematic HPLC Troubleshooting**

Merlin Bicking, ACCTA, Inc.

**Data Analysis Skills for Chromatographers**

Merlin Bicking, ACCTA, Inc.

**Bioanalytical Method Validation by LC-MS/MS**

Perry Wang, LC-MS Technical Expert

**Introduction to Quantitative Spectroscopy for Quality Assurance in the R&D & Manufacturing Environments**

Deborah Peru, DP Spectroscopy and Training, LLC

**Advances in Portable Spectroscopy: Instruments and Applications**

Richard Crocombe, Crocombe Consulting, Pauline Leary, NOBLE

**Sample Preparation for Chromatography**

Douglas Raynie, South Dakota State University

**Practical NMR Spectroscopy**

Damodaran Achary, University of Pittsburgh

**Process Analytical Technology: Out of the Lab and into the Line**

James Rydzak, Specere Consulting

## HALF-DAY COURSES

**Analytical and Bioanalytical Aspects in ADC Drug Development and Subsequent Regulatory Submission**

Xiaohui (Sophia) Xu, Daiichi Sankyo, Zhi Chen, Bristol Myers Squibb

**Green Analytical Chemistry**

Douglas Raynie, South Dakota State University

**An Overview of Drug Development, Drug Quality, Regulatory, and Quality Control Processes**

Michael Dong, MWD Consulting



This one-day in-person symposium offers a deep dive into emerging analytical trends and provides practical, application-driven insights from a panel of industry leaders, academic researchers, and regulatory experts. Two half-day short courses are being offered on June 5<sup>th</sup>. [Registration deadline is May 15<sup>th</sup>.](#)

- Welcome and Opening Remarks: EAS and 65th Birthday Celebration, Anthony Provas, Ph.D., EAS Executive Committee, Co-Chair EAS-Mini Symposium.
- Opening Keynote: *Partnership and Collaboration of Industry and Academia*, Manos Anagnostou, Ph.D., Executive Director, University of Connecticut

#### **Analytical Lifecycle Management Under ICH Q2(R2) and ICH Q14**

*Managing Post-Approval Method Changes Within the Analytical Lifecycle*, [Trevor Williams](#), Sr. Analytical Chemist, Jabil Corporation

*From Sequence to Patient: ALCM Implementation for mRNA Vaccine Platform Analytics*, [Rasangi Wimalasinghe](#), Ph.D., Principal Scientist, Sanofi

*Approaches to Establish Analytical Method Qualification with ICH Q14*, [Laura Pack](#), M.S., Sr. Director, Moderna

#### **Data Integrity and Digital Transformation in GMP Laboratories**

*Regulatory Expectations for Data Integrity in Digital Review Submission Packages*, [Shraddha Thakker](#), Ph.D., United States Food and Drug Administration

*Establishing Digital Compendial Standards for Modern GMP Laboratories*, [Michael Early](#), Sr Partnership Manager, Digital and Innovation Translational Informatics, United States Pharmacopeia

*Digital Transformation Accelerating Implementation of Method Lifecycle Management Guidelines*, [Pankaj Aggarwal](#), Ph.D., Principal Scientist, Merck & Co., Inc.

#### **Stability Testing and Control Strategy for Pharmaceutical Products**

*Leveraging Stability Modeling to Enable QbD for Stability*, [Ken Waterman](#), Ph.D., President, FreeThink Technologies, Inc.

*Implementation Challenges of ICH Q1 Stability Guidelines Draft Revision*, [Jay Steinmetz](#), Senior Scientist, GMP Analytics - Analytical R&D, Pfizer

*Understanding the Expectations of Special Stability Studies*, [Kim Huynh-Ba](#), Managing Director, Pharmalytik

#### **Advanced Analytics, Artificial Intelligence, and Predictive Quality in Pharmaceutical Analysis**

*Advanced Structure – Function Analysis of Lipid Nanoparticles*, [Xiuling Lu](#), Ph.D., Professor of Pharmaceutics, AAPS Fellow, School of Pharmacy, University of Connecticut

*Generative AI + Deep Learning for Predictive Quality: Material-Sparing Calibration of a Tablet Vision Inspection System*, [Giuseppe Cogoni](#), Ph.D., Senior Principal Scientist, ARD, Pfizer

*Artificial Intelligence Applications to Pharmaceuticals*, [George Bollas](#), Ph.D., University of Connecticut

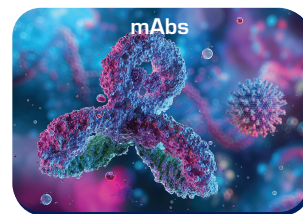
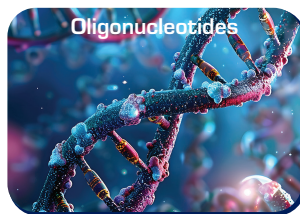
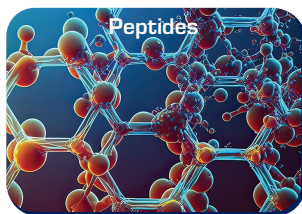
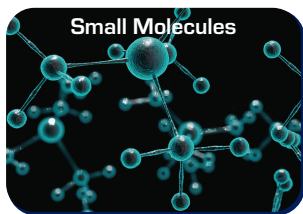
- Closing Keynote: *Enhancing Quality Control Testing through AI-Enabling Digitalization and a Risk-Based Analytical Lifecycle Strategy Execution*, [Stephan Krause](#), Executive Director, CTGQ Analytical Strategy, Bristol Myers Squibb
- Door Prizes, Conclusion and Adjourn

**Short Courses:** On Friday, June 5<sup>th</sup>, two high-demand half-day short courses will be offered to provide technical training for those seeking additional discussion on analytical method validation and stability data management. Morning course: 8:30AM – 11:30AM and afternoon course 1:30 PM- 4:30PM. Click on course title for more details:

- [From Development to Validation: Practical Implementation of ICH Q2\(R2\) and ICH Q14](#) (Morning)
- [ICH Q1 Revision: Gap Assessment and Compliance for Stability Programs](#) (Afternoon)

**Exposition:** Discover new solutions with our selected exhibitors. The expo runs parallel to the technical program to maximize networking and engagement opportunities. Thank you to PerkinElmer, SCIEX, VWR/GVS, and Wessex for their support. More to come!

Advance registration is required; [click here for pricing and to register online.](#)



**Accurately Models All These Separation Modes**

- Reversed Phase
- Normal Phase
- Chiral
- HILIC, HIC
- Ion Exchange
- Size Exclusion
- Supercritical Fluid (SFC)

**Automates Flexible DoE Experiments on your CDS Software**



OpenLab 1  
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**Fusion QbD Strategic Advantages**

- Quickly Develops Methods Optimized for Mean Performance (X-bar) and Robustness (% RSD, C<sub>pk</sub>)
- Eliminates OOS Results on Method Validation and Transfer
- Supports Full Regulatory Compliance and Data Integrity
- **AI READY:** Fuel Your AI Engine with the Best Learning Data Sets

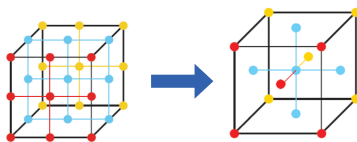
**LC and LC-MS Methods**

**Sample Prep Methods**

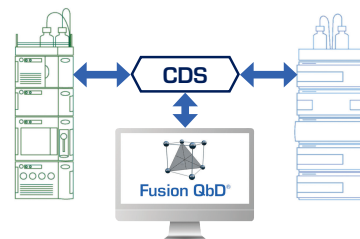
**Non-LC Methods**

- Gas Chromatography
- Capillary Electrophoresis
- Dissolution, ...

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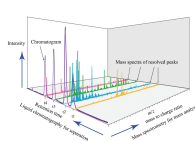
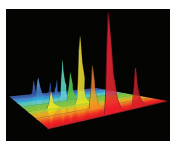
**Experiment While You Sleep – Walk-away CDS Automation**



**UV & MS Spectra-based Peak Tracking**

UV Spectra

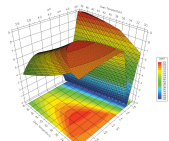
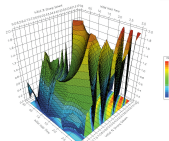
MS Spectra



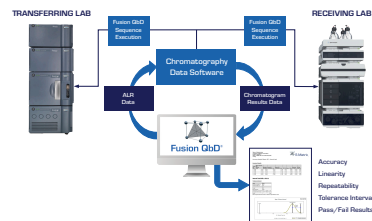
**Advanced Chromatography Modeling & Robust MODR Optimization**

Not Robust

Robust



**Automated Method Validation & Transfer**



**Full Data Integrity and Regulatory Compliance**

100% Aligned with All AQbD and APLM Guidances: ICH Q2 (R2), Q14, <USP 1210>, <1220>, ...  
21 CFR 11 – Full Compliance Support with Integrated Workflow Management System

## CAREER DEVELOPMENT WORKSHOPS

Register for EAS and take advantage of these FREE workshops to improve your job seeking skills! Dates and times will be announced in June.

### **Nobody Told Me This Was Part of the Job: Learning as a Career Strategy**

Jan Peters, Merck & Co., Inc.

The transition from formal education into a scientific career often feels like reaching the finish line—when in reality, it's just the starting point. In a rapidly evolving landscape across academia, industry, and government, continuous learning and development is not optional; it is nowadays essential for staying relevant, innovative, and feeling fulfilled.

This interactive session invites early-career and seasoned scientists alike to reflect on how they approach their growth beyond degrees. Through open discussion, shared experiences, and practical examples, we'll explore how to identify skill gaps, adapt to changing environments, and build a mindset of lifelong learning.

### **Reliable AI Agents for Analytical Science: Linking Digital Design with Instrument Execution**

Gaurav Chopra, PhD

Founder & CEO, LINKTON (a BrainGnosis Inc. company); Purdue University

Artificial intelligence is increasingly linking computational method development directly with analytical instrument execution. This talk will present neurosymbolic AI agents that combine structured experimental knowledge with instrument-aware reasoning to enable reliable, auditable automation of workflows across spectroscopy, chromatography, mass spectrometry, and chemical biology. Emphasis will be placed on quantitative benchmarking of AI reliability, protocol formalization for reproducibility, and closed-loop optimization of experimental methods, with applications in pharmaceutical analysis

### **Career Learnings: Time Management, Productivity, Allies, and, Yes, Manners**

Mary Ellen McNally and Erin Ennis, FMC

To be announced.

## 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!

Ray McClain  
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.

## 2026 EAS Virtual Student Symposium (VSS)

September, 2026, 10:00 am – 5:00 pm

Call for Papers & Registration Opens March 1, 2026!

We are excited to invite students to participate in the **2026 EAS-VSS**! This event offers an invaluable opportunity for students to showcase their current research, gain presentation experience, and engage with a diverse community of experts and peers, all from the comfort of your own space. Whether you're looking to strengthen your resume, expand your professional network, or simply share your work with an audience of like-minded individuals, the EAS-VSS is the perfect platform for you.

Again this year, we're excited to announce a **competition component**! Present your research for a chance to win **free registration to EAS 2026**. Three judges will evaluate presentations, and the winner will be awarded complimentary registration to the EAS November 16-18, where you can further present your research in one of our sessions and network with leaders in the field of analytical chemistry.

We encourage a wide range of research topics to represent the diversity and depth of analytical chemistry. This is your chance to share your work in a virtual setting and connect with the analytical community. Don't miss out on this unique opportunity to present, network, and compete for a chance to attend the prestigious **EAS**!

### VSS Details:

- **Date & Time:** September date to be announced, 10:00 am - 5:00 pm EDT (tentative end time)
- **Who can present?** Undergraduate and graduate students
- **Presentation format:** Choose between a **slide presentation** or a **poster**, with a brief **oral presentation** to accompany your visual display.
- **Presentation length:** 10-15 minutes for the presentation, followed by 5-10 min. for audience Q&A (20-min. total time slot)
- **Abstract submission opening & deadline:** September date to be announced
- **Registration:** The event is free to anyone, including peers, faculty, & family members.

### **Important Contacts:**

- **Fernanda Delgado** (EAS Student Rep): fernanda.delgado@eas.org
- **Motunrayo Oladele**, (EAS Student Rep): motunrayo.ola@uky.edu

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## 2026 EAS Undergraduate Student Award Nominations

The Eastern Analytical Symposium and Exhibition annually offers awards to recognize and encourage scientific promise and research talent in several undergraduate chemistry students. Each college may nominate one student who will be a senior in November of 2026. Nominate one of your students!

Winners will receive an all-expense paid trip to the EAS, be presented with plaques at an award luncheon, and have an opportunity to present their research project in a poster session. In addition, they will be able to participate in all the usual activities of a world-class scientific convention and meet distinguished members of their future profession. Professors who nominate the winners will receive free full-conferee registration for the EAS.

The awardees will be students who are already involved in research, in the broad field of analytical chemistry. Nominations should be in the form of a letter including the following: Your appraisal of how the student handles research, deals with problems, and gets involved in the research process.

Student's postal and e-mail addresses for both the current spring semester and the summer are requested. Nominations are due by **April 30, 2026**, and should be submitted by e-mail to [student.awards@eas.org](mailto:student.awards@eas.org)

## 2026 EAS Graduate Student Research Awards

EAS will be offering an award to graduate students to encourage and reward students who show outstanding talent for scientific research. This award will be open to graduate students who have been significantly involved in a research project at the graduate level for approximately a year or more, and who will not have graduated by the 2026 Fall semester. Nominate one of your students!

Winners will receive an all-expense paid trip to the EAS, be presented with plaques at an award luncheon, and have an opportunity to present their research project in a poster session. In addition, they will be able to participate in all the usual activities of a world-class scientific convention and meet distinguished members of their future profession. Professors who nominate the winners will receive free full-conferee registration for the EAS.

Students working on novel analytical methods or interesting new applications for analytical techniques will be considered. Nominations should include a synopsis of the research project, written by the student. This should include results obtained so far, as well as plans for future work. The synopsis should not exceed three typed pages. In addition, the nominating professor should provide a letter appraising the manner in which the student handles their project, dealing with all the aspects of research: obtaining background information, planning and carrying out experiments, approaching problems, and working with colleagues. Finally, it should include the student's postal and e-mail addresses for both the current semester and the summer.

Nominations are due by **April 30, 2026**, and should be submitted by e-mail to [grad.awards@eas.org](mailto:grad.awards@eas.org)

## 2026 Alvin Bober Student Seminars

The Eastern Analytical Symposium has an outreach program designed for high school chemistry teachers, high school students, and collegiate undergraduates.

EAS will present two Outreach Seminars intended for high school / collegiate students during the conference. The seminars will focus on concepts intended to improve STEM outreach and will be taught by recognized industry and academia leaders in Chemistry.

Registration for the Student Seminars is required. High school students attending with their teacher may register for a Seminar for **free**. The EAS registration fee for college students is \$50, which includes access to all Outreach Seminars. Information concerning scheduling, speakers, and topics will be posted on the EAS website shortly. Registration is expected to open in July.

Please contact Eastern Analytical Symposium for questions at [askeas@eas.org](mailto:askeas@eas.org) or visit our website at [EAS.org](http://EAS.org) for more information.

**Peter Diaczuk**  
**Seminar Chair**

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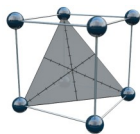
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We still have a few booth & tabletop spaces available. Please contact Janine at [exposition@eas.org](mailto:exposition@eas.org).

The Governing Board of EAS would like to thank the following sponsors for their support in 2026

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EASTERN ANALYTICAL SYMPOSIUM & EXPOSITION



# Navigate the Future of Analytical Chemistry: Intelligence and Integrity

**November 16–18, 2026**

**CALL FOR PAPERS OPENS  
MARCH 1, 2026**

Crowne Plaza Princeton – Conference Center  
Plainsboro, NJ

EAS invites **YOU** to be a part of the Technical Program this November. Contribute a paper for oral or poster presentation via our website. Online submission opens March 1st. Deadline for oral papers is May 1 and poster papers Sep. 1, 2026.

[www.eas.org/asubmit](http://www.eas.org/asubmit)

EAS seeks contributions from scientists in many areas of analysis, which makes its program uniquely strong. Areas of interest include but not limited to:

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



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## 2026 Registration Types & Rates

	Before Oct. 15	After Oct. 15
<b>Full Conferee</b>	\$375	\$550
<b>Exposition/Networking/Posters ONLY</b>	\$175	\$175
<b>Wednesday Only Full Conferee</b> <i>(available onsite only on Nov. 18)</i>		\$200
<b>Full-Time Student Conferee</b>	\$50	\$50
<b>High School Student with Seminar</b> <i>(must register for a seminar)</i>	\$0	\$0
<b>One-Day Short Course</b> <i>(must register as Full Conferee in order to take course)</i>	\$750	\$1,100
<b>One-Day Short Course - Student Rate</b> <i>(must be a Full-Time Student in order to take course at Student Rate)</i>	\$125	\$450
<b>Two-Day Short Course</b> <i>(must register as Full Conferee in order to take course)</i>	\$1,200	\$1,500
<b>Two-Day Short Course - Student Rate</b> <i>(must be a Full-Time Student in order to take course at Student Rate)</i>	\$225	\$650
<b>Half-Day Short Course</b> <i>(must register as Full Conferee in order to take course)</i>	\$350	\$450
<b>Half-Day Short Course - Student Rate*</b> <i>(must be a Full-Time Student in order to take course at Student Rate)</i>	TBA	TBA

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

2026 EAS

November 16-18, 2026

Plainsboro, NJ

### OFFICERS

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### EXECUTIVE SECRETARY

Bernadette Taylor at [askeas@eas.org](mailto:askeas@eas.org)

### IMPORTANT DATES

<b>March 1</b>	Abstract submission opens for contributed oral & poster Papers for November
<b>May 1</b>	Abstract submission deadline for contributed <b>oral</b> papers
<b>June 15</b>	Presenters of invited presentations are contacted by email with session schedules & instructions for the submission of final abstracts
<b>July 1</b>	Presenters of contributed oral presentations are contacted by email with session schedules & presentation guidelines
<b>July 15</b>	Registration opens
<b>July 31</b>	Deadline for submission of final abstracts for invited presentations
<b>Aug. 1</b>	Preliminary Program posted on <a href="http://www.EAS.org">www.EAS.org</a>
<b>Sept. 1</b>	Abstract submission deadline for contributed <b>posters</b>
<b>Sept. TBA</b>	Deadline to submit an abstract for the VSS
<b>Sept. TBA</b>	EAS Virtual Student Symposium (Free)
<b>Oct. 15</b>	Deadline to register for EAS & short courses at a reduced rate
<b>Nov. 16-18</b>	<b>The 65th Eastern Analytical Symposium &amp; Exposition</b>

### How to contact us....

General Information

**EAS Executive Secretary and Retort Editor**  
**Eastern Analytical Symposium, Inc.**

**PO Box 185**

**Spring Lake, NJ 07762**

**Email: [askeas@eas.org](mailto:askeas@eas.org)**

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