

EASTERN ANALYTICAL SYMPOSIUM & EXPOSITION

Across The Analytical Spectrum: Diversity of Scientific Ideas

November 17-19, 2025

Crown Plaza Princeton - Conference Center
Plainsboro, NJ

FINAL PROGRAM



eas.org





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There are numerous opportunities for sponsorship and co-sponsorship of technical sessions, awards, and other activities at the 2025 EAS. For more information, please contact the EAS Executive Secretary askeas@EAS.org

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*The Eastern Analytical Symposium & Exposition is sponsored by the
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Laboratory Managers; the New Jersey Association of Forensic Scientists;
and the Chinese American Chromatography Association*

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

Parking & Shuttle Services
Parking is available at the nearby Princeton Alliance Church at 20 Schalks Crossing Road, Plainsboro which is just 0.7 miles away. EAS shuttle service will be available every 10 min.
from 7:00 AM to 6:00 PM Monday & Tuesday (no shuttle on Wednesday) to transport you from the overflow Church parking lot to & from the Conference Center.

President's Welcome Message – EAS 2025



Dear Colleagues and Friends,

Welcome to the **2025 Eastern Analytical Symposium & Exposition (EAS)**!

Our 2025 theme, “**Across the Analytical Spectrum: Diversity of Scientific Ideas**,” highlights the power of diverse approaches, perspectives, and techniques in addressing the complex challenges of today’s world. Whether you’re here to learn about the latest research and advances in your specialty or broaden your horizons, EAS provides the ideal environment to learn, connect, and collaborate. Analytical science is at its best when we work together by sharing data, insights, and innovations to enable breakthroughs across industries including pharmaceuticals, forensics, environmental science, food and flavor, cosmetics, clinical diagnostics, energy, and more.

EAS provides a unique and exciting gathering for professionals, students, educators, and industry leaders across all disciplines of analytical science.

This year’s program is filled with exciting opportunities:

- **Outstanding Technical Sessions**, featuring leading-edge research across all fields of chemistry
- A dynamic **Exposition**, where vendors showcase the latest in state-of-the-art technology and services
- The Career Options for Women Chemists **Breakfast Lectures** on Monday and Tuesday
- **Short Courses** and **Workshops** to sharpen your skills and expand your expertise
- An **Awards Session**, honoring excellence across our community
- And our keynote presentation by **Professor Ashley Ross (University of Cincinnati)**, describing Neurochemical Detection Along the Gut-Brain-Immune Axis

We are proud to recognize the **2025 EAS Award Winners**, including:

- **Professor David S. Hage**, University of Nebraska–Lincoln – The Fields of Analytical Chemistry
- **Professor Nicholas H. Snow**, Seton Hall University – Outstanding Achievements in Separation Sciences
- **Professor Lewis E. Kay**, University of Toronto – Outstanding Achievements in Magnetic Resonance
- **Dr. Ljiljana Paša-Tolić**, Pacific Northwest National Laboratory – Outstanding Achievements in Mass Spectrometry
- **Professor Karl Booksh**, University of Delaware – Outstanding Achievements in Chemometrics
- **Professor Dr. Katelynn Perrault Uptmor**, William & Mary – Young Investigator Award
- And congratulations to our outstanding 8 student awardees as well!

We invite you to explore the Exposition area and take part in our **Expo Bingo** game by visiting participating exhibitor booths for a chance to win exciting prizes including **free registration to a future EAS event!** While you’re there, stop by the **Souvenir Booth** to pick up your free gift and visit our photo booth to have a **free professional headshot** taken by our EAS photographers. Don’t miss our fun **evening social events** for a chance to mingle and meet our EAS Exhibitors. Be sure to **download the EAS 2025 app** for real-time updates and information throughout the symposium.

This symposium would not be possible without the tireless efforts of our volunteers, committee chairs, exhibitors, sponsors, and the staff at the Crowne Plaza. Special thanks go to our Executive Secretary, **Bernadette Taylor**, and our Exposition Director, **Janine Kishbaugh**, for their dedication in bringing EAS 2025 to life.

On behalf of the entire EAS Board, thank you for joining us. I hope you will take full advantage of the opportunities available, build your professional network, and leave EAS 2025 energized and inspired.

Welcome to EAS 2025!

Warm regards,

Matthew R. Wood

President, Eastern Analytical Symposium

KEYNOTE & BREAKFAST LECTURES

We are excited to announce our special lectures!

Join us to hear these experts:

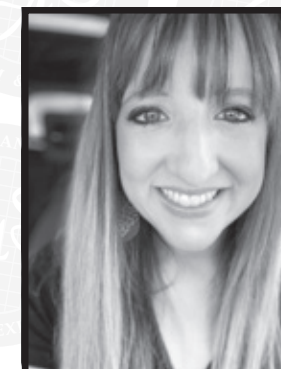
Keynote Lecture

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

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

Dr. Ashley Ross, University of Cincinnati

*All Attendees and Exhibitors are invited to join us. A complimentary
reception will be held immediately after the lecture in the Exposition rooms*



Breakfast Lectures at 7:30 AM

Networking at 8:30 AM

Career Options for Women Chemists Part 1

Monday, November 17

Sponsored by ACCTA, Inc.



Kate Jackson
Colgate Palmolive Company

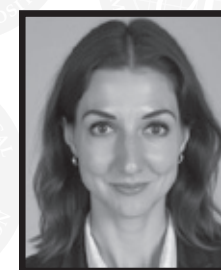


Dr. Monica Joshi
West Chester University of PA

Career Options for Women Chemists Part 2

Tuesday, November 18

Sponsored by American Chemical Society North Jersey Section



Dr. Anastasia Andrianova
Agilent Technologies



Dr. Erin Ennis
FMC Corporation

*A light breakfast & networking will be available each day.
All Full Conferees & Full-Time Student Conferees are invited to attend*

2025 EAS Conferences-in-Miniature

All Short Courses are full-day from 8:30AM – 5:00PM

EAS AWARD SESSION
November 18; 1:15 PM - 4:30 PM

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**, 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 (11/18)

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)
- 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)

PHARMACEUTICAL ANALYSIS (continued)

- 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)

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)

KEYNOTE LECTURE

Exploring New Frontiers in Neurochemical Detection Along the Gut-Brain-Immune Axis (11/17 PM)

Dr. Ashley Ross, University of Cincinnati

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

Thank you to the following people for their generous donations to EAS. Your support is critical to help us achieve our mission – “*to provide pathways and opportunities to improve scientific education, training, and networking to both new scientists just entering the field, as well as experienced scientists looking to expand their knowledge base and stay current in these ever-so-quickly advancing fields.*”

The Governing Board of EAS would like to THANK the following individuals for their generous donations:

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As the end of the 2025-year approaches, please consider making a charitable donation to EAS. As a 501(c)3 organization, your donation is generally tax deductible (according to applicable tax laws). Help to guarantee the future of EAS as a successful conference and pathway for continued collaboration among the local and global scientific community!

2025 Technical Program

Monday Morning, November 17, 2025

BREAKFAST LECTURE

Sponsored by ACCTA, Inc.
Monday, November 17, 7:30 AM
Room: Einstein; 1st Floor

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.

Powerful Biopharma Separations Without the Use of A Columns

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

9:00	1	Demystifying AUC: A Multi-Attribute Platform Technology for Biologics, Lake Paul , BioAnalysis LLC
9:30	2	AF4 Method Development for Vaccine Analysis, Troy Halseth , Merck & Co., Inc.
10:00		Break
10:30	3	A Tale of Tails: Using the Power of Capillary Electrophoresis for the Analytical Characterization of mRNA, Deanna Di Grandi , Regeneron
11:00	4	RNA on the Run: Sprinting to Separation with Ion Mobility, Marcelino Varona-Ortiz , Chris Crittenden, Genentech

Multidimensional Separations for Complex Sample Analysis
Sponsored by ACS Division of Analytical Chemistry
Chair: James Grinias, Rowan University

9:00	5	Understanding Olefin Content in Complex Samples via Multidimensional Separations, Petr Vozka , Genesis Barzal- lo, Hung Gieng, Ananya Sharma, Jyotika Patel, University of California-Los Angeles
9:30	6	Monitoring Time Course Trends of Food Spoilage in Toma- to Samples with GCxGC and ChromaTOF Sync Alignment Software, Elizabeth Humston-Fulmer , Joseph Binkley, LECO Corporation
10:00		Break
10:30	7	The Full Transcript: Comprehensive mRNA Profiling with an Online Multiplexed Multidimensional LC Platform, Daniel Nguyen , Kelly Zhang, Peter Yehl, Alexandre Goyon, Genentech
11:00	8	Implementing Multivariate Statistics for Analyzing Multidi- mensional Kombucha Data, Sarah Foster , Katelynn Perrault Uptmor, William & Mary, Ian Buhner, Laura Tipton, James Madison University

Research from our Emerging Forensic Scientists
Sponsored by New Jersey Association of Forensic Scientists
Chair: Monica Joshi, West Chester University of PA

9:00	9	The Application of ATR-FTIR Spectroscopy for the Identi- fication of Cosmetic Foundations on Cloth, Jaden Force , Kelly Elkins, Towson University
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9:30	10	Decomposition Analysis Using Differing Data Processing Methods to Identify Volatile Organic Compounds and Pro- vide New Ways to Use Water as Evidence in Casework, Virginia Weina , Katelynn Perrault Uptmor, College of Wil- liam & Mary
10:00		Break
10:30	11	Illicit Pill Profiling: Chemical Trends in Fentanyl Tablets from the Southwest Border and Beyond, Macenzie Powell , Mandi Mohr, Barry Logan, MJ Menendez, Mia Borrelli, Alexandra Kuchinos, Madison Schackmuth, The Center for Forensic Science Research & Education
11:00	12	Direct Analysis in Real Time- Mass Spectrometry as a Technique for Rapid Drug Analysis and Near Real-Time Surveillance of the Illicit Drug Landscape, Elise Pyfrom , Edward Sisco, Meghan Appley, Elizabeth Robinson, Na- tional Institute of Standards and Technology

Better Together: Solving Difficult Problems by Combining
Vibrational Spectroscopy with Other Techniques
Sponsored by The Coblentz Society
Chair: Nancy Jestel, SABIC

9:00	13	Assessing Drug Product Structure after Induced Stresses by Raman Spectroscopy and cIEF/MS, Diana Novo , Colin Fitzpatrick, Riley Schaefer, Kristen Nields, Karin Balss, Johnson and Johnson
9:30	14	Monitoring the Imidization of Poly(amide acid) Films by TGA-IR, Michael Hall , SABIC
10:00		Break
10:30	15	Regenerative Electroactive Self-Assembled Layers: A Spectroscopic and Mechanistic Investigation on Reversible Non-Covalent Interactions, Nico Maldonado , Caroline Hou, Anna Wuttig, University of Chicago
11:00	16	Capturing Transformations in Soft-Matter via Mashups of Rheology, Raman Spectroscopy and Optical Microscopy, Kalman Migler , National Institute of Standards and Tech- nology

Advanced Chemometric Approaches for Hyperspectral Imaging
Sponsored by SAS Delaware Valley
Chairs: Caelin Celani, Helder Carneiro, University of Delaware

9:00	17	Instrumentation and Algorithms for Photothermal Infrared Hyperspectral Microscopy, Garth Simpson , Purdue Univer- sity
9:30	18	Machine Learning and Hyperspectral Imaging to Acceler- ate Pharmaceutical Process Development, Joseph Smith , Merck & Co., Inc.
10:00		Break
10:30	19	Clustering Hyperspectral Spectra via Subspace Clustering, David Hong , Suhas Cristy Mathey, Roxanne Radpou, Uni- versity of Delaware
11:00	20	Mapping Strain Effects in 2D Ga2Se2 via Hyperspectral Imaging, Lottie Murray , Helder Carneiro, Caelin Celani, Eric Herrmann, Karl Booksh, Xi Wang, Matthew Doty, Uni- versity of Delaware

Harnessing Imaging Mass Spectrometry for Enhanced Drug
Development
Chair: Ines Santos, Bristol Myers Squibb

9:00	21	Mitigating Kidney Toxicity Risk and Prioritizing Drug Candidates Using MALDI Mass Spectrometry Imaging, Bingming Chen , Merck & Co., Inc.
9:30	22	Targeted High Spatial Resolution Metabolite Imaging using DESI on Tandem Quadrupole MS, Bindesh Shrestha , Waters Corporation
10:00		Break
10:30	23	Implementation of DESI-MSI as a Shared Resource for Untargeted and Targeted Small Molecule Analysis, Christina Ferreira , Purdue University
11:00	24	Investigation of Localised Tissue Immune Response to Intramuscular Drug Treatment with a Mass Spectrometry Imaging-Based Spatial Multi-Omics Approach, William Hardesty , Fang Xie, Eliot McKinley, Reid Groseclose, GSK, Heath Patterson, Wanqiu Zhang, Maria Mantas, Alice Ly, Nico Verbeeck, Marc Claesen, Aspect Analytics

Struggles in Management
Chair: Denis Swijter, ALMA

9:00	25	Conflict Resolution, Scott Hanton , Lab Manager Magazine
9:30	26	The Changing Workforce: New Facets of Old Problems, Catherine Smith , ASR (Arkema)
10:00		Break
10:30	27	Dealing with Difficult People, Dwayne Henry , Montgomery College
11:00	28	Keeping Up Morale in the Lab, Scott Hanton , Lab Manager Magazine

Analytical Risk Management and Regulatory Strategies for
Method Development and Compliance
Chair: Mariann Neverovitch, Bristol Myers Squibb

9:00	29	Don't Ignore These Warning Signs of Potential Phase 3 Analytical Validation Failures, Michael Spangler , Spangler Consulting LLC
9:20	30	Analytical Target Profile: An Introduction and its Strategic Link to Quality Target Product Profile and Analytical Life Cycle Management, Partha Mukherjee , Amicus Therapeu- tics
9:40	31	Mapping Key Elements in the Current ICH and USP Guid- ances to an Enhanced Workflow for Analytical Procedure Development, Richard Verseput , S-Matrix Corporation
10:00		Break
10:30	32	Simultaneous Targeted, Non-Targeted Per- and polyfluo- roalkyl Substances (PFAS) Screening as Part of Extract- ables Screening for Pharmaceutical Packaging, Manufac- turing Components, and Medical Device by LC-HRAM-MS, Rajesh Chennam Shetti , Chongming Liu, Dujuan Lu, Mark Rogers, SGS Pharma, Sven Hackbusch, Sebastien Morin, Jon Bardsley, Thermo Fisher Scientific
10:50	33	Optimizing Trace Metals Analysis: Advanced Sample Prep- aration and Microwave Digestion Techniques for Food and Environmental Samples, Alicia Stell , Elaine Hasty, Macy Harris, CEM Corporation

11:10	34	Batch Process Understanding (BPU) Refines a Method for Process Patent Protection (PPP) via Natural-Abundance Stable Isotopes, John Jasper , Molecular Isotope Technolo- gies, LLC, Anthony Sabatelli, Wiggin and Dana LLP, Ann Pearson, Department of Earth and Planetary Sciences
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Monday, November 17: E-Poster Morning Session; 11:30AM –
12:25PM

35	A New Form of Protein Aggregates: An Early Warning Sign for Polysorbate Degradation in Biologic Pharmaceuticals, Laura Philips , Juliana Lumer, Valentina Flores-Montes, Spheryx, Inc.
36	Single-Sided NMR as a Tool for Non-Invasive Oil Classification and Quality Control, Katelyn Blair , Levi Bielewicz, M. Fernanda Delgado, Jocelyn Alcantara-Garcia, University of Delaware
37	Raman-Based Identification and Quantification of Microplastics in Food and Agricultural Wastes, Guangyu Zhu , Sowmya Atukuri, Jiahui Hu, Hui Mu, Wen Zhang, New Jersey Institute of Technology
38	Identification of Membrane Proteins from Extracellular Vesicles with SWATH-MS, Alexandria Gallagher , Nichole Donofrio, Kenneth Tomkovich, Reihaneh Safavi-Sohi, Seton Hall University
39	Monitoring Oxidative Degradation of Desmosines by MALDI MS2 Ion Trap Approach with Chemical Derivatization, Muhammad Ali , Emmanuel Chang, CUNY York College
40	An In-Depth Analysis of Mass Spectrometry Data: Decoding the Noise, Zuliana Loaiza , Ulfet Erdorgan, Taniya Jayaweera, Pathea Bruno, Costel Darie, Clarkson University
41	Re-Development and Optimization of a Liquid Chromatographic Method for Purity Impurity and Assay of a Small Molecule Pharmaceutical Intermediate with Enhanced Robustness, Xiaomei Zhou , Yan Zha, Peter Tattersall, Bristol Myers Squibb
42	Optimization of Universal Detection Methods for Lipid Nanoparticles, Andrew Steere , Norris Wong, Jennifer Simeone, Paula Hong, Waters Corporation
43	Impact of Impurities in Raw Materials on the Impurity Control Strategy for Drug Substance: A Case Study from Nemtabrutinib Synthetic Route, Hanlin Luo , Merck & Co., Inc.
44	A Proteomic Investigation to Identify Potential Protein Biomarkers for Breast Cancer Detection Using Sera from Control Donors and Women with Triple-Negative Breast Cancer, Nicholas Versaci , Danielle Whitham, Isabelle Sullivan, Norman Haaker, Brain Pentacost, Costel Darie, Clarkson University
45	Analytical Development from HTE Screening to Late-Stage Process Development, a Case Study on 2-(Piperazin-2-yl) acetonitrile, Dake Mao , Brian He, Adrian Doggett, Catherine Mihalec, Robert Menger, Bristol Myers Squibb
46	Investigation of a Gel Formation Issue and Identification of the Gel Complex in a Dianion Addition Synthesis Step of a Small Molecule Drug Substance Using SEC-MS and IR Spectroscopy, Van Truong , Merck & Co., Inc.
47	Development of Control Strategy for Peroxide in Tetrahydrofuran (THF) Based on a Simple Method to Mitigate the Risk of Oxidation Product Formation for TNG462, Zhengyang (Allen) Xin , Yong Liu, Colin Liang, John Zhang, Michael Palmieri, Tango Therapeutics
48	Analysis of Nitrite in Excipients as a Function of Particle Size Using Headspace Gas Chromatography, Elizabeth Morisseau , Ingrid Pomaquiza, Paul Gerst, Denise Grimon, Pfizer
49	Harmonizing Resource Ambiguity and Assay Expectation: A Multivariate Approach to Enhance Specificity and Accuracy of Acylcarnitine Profile in Plasma and Serum by High Performance Liquid Chromatography – Tandem Mass Spectrometry (HPLC-MS/ MS), Dahai Shao , Case Western Reserve University

50	Creating an Analytical Network Community Across Pharmaceutical Development R&D at Bristol Myers Squibb, Peter Tattersall , Anthony Leone, Brent Donovan, Bristol Myers Squibb
51	Proteomic Analysis of Contents in Varying Plant Milk Types Using Gel-Based Mass Spectrometry Methods, Celeste A. Darie , Alivia Sochia, Angiolina Hukovic, Niyogushima Nuru, Taniya Jayaweera, Pathea S. Bruno, Costel C. Darie, Clarkson University

Monday, November 17: E-Poster Afternoon Session; 12:30PM – 1:25PM

52	Development of a High-Throughput Proteostat-Based Fluorescence Assay for Detection of Aggregates in Vaccine Modalities, Jessica Wynn , Walter Wasylaschuk, Eric Kemp, Irene Chang, Michael McNevin, Malini Mukherjee, Merck & Co., Inc.
53	Probing Water Content in Active Pharmaceutical Ingredients Using Quantitative NMR, Georgios Daletos , Samuel P. Molesworth, Pfizer, Inc.,
54	Towards a Universal HPLC Method for the Quantitation of Residual Protein Levels in Products Isolated from Biocatalyzed Reactions, Hayley Herderschee , Alex Gedye, Magan Kremsmair, Matt Baurele, Merck & Co., Inc.
55	Ultrafast Microdroplet Digestion of Antibodies with Fc-Silencing Mutations, 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, Johnson & Johnson
56	Targeted Identification of Extracellular Vesicle Protein Biomarkers Using StageTip Fractionation and MALDI-TOF, Kenneth Tomkovich , Vedanta Mishra, Alexandria Gallagher, Reihaneh Safavi-Sohi, Seton Hall University
57	The Effects of Hair Bleaching on Fentanyl Concentrations and its Implications in Drug Testing, Elliot Vasey , Stephanie Rainer, Arcadia University
58	Investigation on Irregular Light Degradant Peak Fronting and Recovery in Small Molecule API Method Development, Anna Calkins , Jonnie Shackman, Yiyang Zhou, Bristol Myers Squibb
59	HYDRA: Introducing Vacuum Ultraviolet Detection to the LC World, Rafael Acosta , Annika Dombrowski, VUV Analytics
60	Membrane Protein Analysis: Integrating Metallic Nanoparticles with MALDI-TOF-MS, Nichole Donofrio , Alexandria Gallagher, Kenneth Tomkovich, Reihaneh Safavi-Sohi, Seton Hall University
61	Per- and Polyfluoroalkyl Substances (PFAS) in Food Waste: Detection and Cost Analysis, Jiahe Zhang , Guangyu Zhu, Wen Zhang, New Jersey Institute of Technology
62	Proteomic Profiling of Breast Milk for Early Breast Cancer Detection: In-Solution Digestion Mass Spectrometry Analysis, Isadora Barbosa Freire , Aneeta Arshad, Costel C. Darie, Clarkson University, Kathleen F. Arcaro, University of Massachusetts-Amherst
63	Identification of Fibrinogen Alpha in Peptidomic Serum Samples from Breast Cancer Patients and Matched Healthy Controls for Progression Biomarker, Shaelee Torress , Pathea Bruno, Isabella Pelkey, Costel Darie, Clarkson University
64	Bifunctional Transition Metal based Boron Nitride Electrocatalysts for Nitrogen Reduction Reaction and Nitrate Reduction Reaction, Rehan Ali Qureshi , Siming Huo, Xianqin Wang, New Jersey Institute of Technology
65	Comparative Peptidomic Analysis of <10 kDa Serum Fractions from Breast Cancer Patients and Healthy Controls for Biomarker Discovery, Ethan Freedley , Pathea Bruno, Kaya Johnson, Costel Darie, Clarkson University

66	Orthogonal Analytical Evaluation of Photoprotection in Hair: DSC, SDS-PAGE, and HPTLC, Ernesta Malinauskyte , Vanessa Castro, TRI Princeton, Ieva Calkaite, Ilona Jonusiene, Kaunas University of Technology
67	Using EPR and DFT Methods to Understand the Heterodimer BChlg’/Chla’ Generated by Exposure of Heliomicrobium Modesticaldum Primary Donor P800 to Dioxidegen, Patrick Landry , K. V. Lakshmi, Rensselaer Polytechnic Institute, Divya Kaur, Art van der Est, Brock University, Bryan Ferlez, John H. Golbeck, The Pennsylvania State University, Till Biskup, Stefan Weber, Albert-Ludwigs University-Freiburg
68	Investigation of the Dysregulated Proteins in Fishes from the Great Lakes Exposed or not to Environmental Contaminants, Krishan Weraduwege , Taniya Jayaweera, Sujan Fernando, Thomas Holson, Clarkson University, Bernard Crimmins, AEACS
69	Automated Online LC Sampling for Data-Rich Reaction Monitoring in Chemical Process Development, Elizabeth Yuill , Yuan Ren, Qinggang Wang, Bristol Myers Squibb
70	The Impact of Cooking on Isothiocyanate Formation in Broccoli using Gas Chromatography-Mass Spectrometry (GC-MS), Chelsea Bissondayal , Joseph Ocando, Enju Wang, St. John’s University

Monday Afternoon, November 17, 2025

Supercritical Fluids as Sustainable Solvents
Sponsored by Chromatography Forum of DE Valley
Chair: Mary Ellen McNally, FMC Corporation

1:30	71	Beyond Conventional Methods: Leveraging SFC for Faster, Greener and More Efficient Pharmaceutical Analysis, Michael Hicks , Haley Herderschee, Melissa Skuriat, Sima Sakhaei, Henry Sanders, Alison McQuilken, Timothy Nowak, Merck & Co., Inc.
2:00	72	Development and Validation of a Supercritical Fluid Chromatographic Method for Quantitation of the Active Enantiomer in Indoxacarb End-Use Product, Xiaoyan Wang , Danielle Sasdelli, Emily Gabriele, Mary Ellen McNally, FMC Corporation
2:30		Break
3:00	73	High Throughput Analysis Applications (using SFC/MS), William Farrell , Virscidian, LLC
3:30	74	Multi-Target Surrogate Optimization for Supercritical Fluid Extraction - Supercritical Fluid Chromatography - Mass Spectrometry of Drug Compounds, Kevin Schug , Niray Bhakta, Jaivardhan Sood, Yujing Yang, Chen Kan, Jay Rosenberger, Victoria Chen, University of Texas-Arlington

Innovation Meets Regulation: How to Make our Life Better and Safer
Sponsored by Amgen
Chair: Jason Shen, Insmmed Inc.

1:30	75	Pharmaceutical Regulations: An Overview for the Analytical Chemist, Leon Doneski , Arcutis Biotherapeutics
2:00	76	Analytical Testing to Support the Development of Novel Combination Products, Keith Faucher , Aura Bioscience
2:30		Break
3:00	77	Elevating Quality and Compliance with Transformative Software Solutions, Tracy Hibbs , Waters Corporation

3:30	78	Navigating the Future - Some Regulatory Considerations for Implementing Innovative Analytical Technologies in Pharmaceutical Manufacturing, Ting Wang , Nina Cauchon, Paul Kirwan, Marisa Joubert, Marquerita Algorri, Brian Bell, Robert Soto, David Semin, Amgen
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Providing Industry with Practical Analytical Chemistry Skills
Sponsored by SAS New England
Chair: Ellen Miseo, Miseo Consulting

1:30	79	Hard and Soft Skills I Rely on but Don't Remember Being Taught in School, Nancy Jestel , SABIC
2:00	80	The Depth of the Undergraduate Lab Experience at a Large University, Zachary Rhoden , The Pennsylvania State University
2:30		Break
3:00	81	Preparing Undergraduates for Next Steps Beyond College: What's the Same and What's Changed after 25+ Years at a Small Liberal College, Mary Kate Donais , Saint Anselm College
3:30	82	Education is Everyone's Responsibility, Especially the Societies, Ellen Miseo , Miseo Consulting, Stephanie Shaffer, MJH Life Sciences

Small Molecule Characterization and Protein Conformational Studies by Ion-Mobility Mass Spectrometry
Chair: Srinivas Chakravartula, Rutgers, The State University of New Jersey

1:30	83	Mapping your Life and Everything Else: The Promise of High Dimensional Phenomics, John McLean , Vanderbilt University
2:00	84	Ion Mobility-Enhanced Lipidomics Reveals the Role of Diacyl-Phosphatidylcholine in Ferroptosis, Fereshteh Zandkarimi , Columbia University
2:30		Break
3:00	85	Advancements in Ion Mobility Spectrometry Measurements for Native Protein Mass Spectrometry, Rachel Buckley , Lauren Aleksunes, Brian Buckley, Rutgers University, David Clemmer, Indiana University
3:30	86	Protein Charge State Confirmation Studies on LC-ESI-MS and Ion Mobility Mass Spectrometry-A Comparative Study, Srinivas Chakravartula , Rutgers, The State University of New Jersey

Advanced Spectroscopic and Imaging Tools Enabling the Design of Complex Drug Products
Chairs: Maple Wang, Yongchao Su, Merck & Co., Inc.

1:30	87	Interfacial Phenomena in Lipid Nanoparticle (LNP) Systems, Yulia Eygeris , Gaurav Sahay, Oregon State University
2:00	88	Innovative Techniques to Unravel the Needle Clogging for High Concentration Formulation Delivery, Guangli Hu , Merck & Co., Inc.
2:30		Break
3:00	89	Connecting Complex Drug Product Design Space with <i>In-Vitro</i> and <i>In-Vivo</i> Performance through Image-Based Prediction, Phil Yawman , Shawn Zhang, Josh Lomeo, DigiM Solution LLC
3:30	90	Quantitative Morpho-Chemical Imaging of Subvisible Particles in Biopharmaceutical Formulations, Dan Fu , University of Washington

Advances in Forensic Chemistry: Solving Practical Challenges in the Crime Lab
Chair: Tom Brettell, Cedar Crest College

1:30	91	Polydrug Case Examples Containing Novel Psychoactive Substances (NPS) in the United States Drug Supply, Mia Borrelli , Amanda Mohr, Barry Logan, The Center for Forensic Science Research & Education
2:00	92	Applications of Chemometrics to NPS Drug Analysis, Jennifer Bonetti, Virginia Department of Forensic Sciences, Arian van Asten , Saer Samanipour, University of Amsterdam
2:30		Break
3:00	93	Advancing Nontargeted Analysis with GCxGC Using a Sustainable Approach, Kira Fisher , Katelynn Perrault Uptmor, William & Mary
3:30	94	Forensic Applications Using GC/FTIR with Light Pipe Technology to Acquire Infrared Vapor Phase Spectra, Lewis Smith , County of Cape May Prosecutor's Office Forensic Laboratory

Spectroscopy and Sensors for Complex Materials and Environmental Systems
Chair: Shirley Fischer-Drowos, Widener University

1:30	95	Lego Blocks and Raman Spectroscopy: Evaluation of Advanced Data Collection Techniques, Richard Crocombe , Crocombe Spectroscopic Consulting, Peter Larkin, Syensqo, Pauline Leary, Noble, Inc., Noble, Inc., Mary Kate Donais, St. Anselm's College
1:50	96	Analytical and NMR Studies on the Photodegradation of Plant Chromophores, Alexander Greer , Kamrun Nahar, Serah Essang, Akshaya Iyer, Brooklyn College
2:10		Composition and Structure of Fluorinated Polymers in the Molten State by High Temperature Static NMR, Alexander Marchione , Michael Davis, Chemours
2:30	97	Sorption and Desorption of 17alpha-ethinylestradiol and beta-estradiol on Montmorillonite Clay and Nylon Microparticles Using Fluorescence Detection, Christian Manuelli , Shouwei Cai, University of Massachusetts-Dartmouth
2:50	98	Break

Analytical Strategies for Nitrosamines and Impurity Control in Pharmaceuticals
Chair: Leonel Santos

1:30	99	Nitrosamines: Explaining Why Ranitidine HCl Degrades in the Solid State, Jianchao Xu , Eric Munson, Purdue University
1:50	100	Establishing a Robust Analytical Technique for Ultralow Nitrite Detection and Quantification in Pharmaceutical Excipients, Syamantak Roy , Kelly Blundin, Edward Mularz, Junyong Jo, Merck & Co., Inc.
2:10	101	LC-MS Screening of Nitrosamines using Superficially Porous Particle Columns, Stephanie Schuster , Joshua McBee, Conner McHale, Peter Pellegrinelli, Advanced Materials Technology, Inc.
2:30		Break

3:00	102	A Holistic Approach to Life Cycle Management of Nitrosamine Drug Substance Related Impurity in Pharmaceutical Products: Guidance and Case Study, Partha Mukherjee , Xin Yao, Sheela Sitaraman, Jon Brudvig, Jeff Castelli, Saroj Ramdas, Amicus Therapeutics
3:20	103	Using High pH LCMS Conditions for Impurity Characterization of GLP-1 Therapeutics, Joshua McBee , Barry Boyes, Advanced Materials Technology
3:40	104	Reliable Analysis of Genotoxic Impurities Using Ultrahigh-Resolution MRR, Alexander Mikhonin , Dreka Burgess, Voislav Blagojevic, Ann Adele Byers, Reilly Sonstrom, Steven Shipman, Justin Neill, BrightSpec, Inc.

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, 4:15 PM*

*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, 2025

BREAKFAST LECTURE

*Sponsored by American Chemical Society – North Jersey Section
Tuesday, November 18, 7:30 AM
Room: Einstein; 1st Floor*

**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.

Sustainable Separations and Sensors

Sponsored by Seton Hall University

Chair: Nicholas Snow, Seton Hall University

9:00	105	Taming Odor: Investigating Odor Measurement and Control, Kevin Schug , Han Le, Hala Muhiar, The University of Texas at Arlington, Michael Pecore, Emmanuel Varona-Torres, Weaver Consultants Group
9:30	106	Applications of Nanocarbons in Chromatography, Sample Preparation, and Membrane Separation, Somenath Mitra , Karwa Mahesh, Chutarat Saridara, Ornthida SaeKhow, New Jersey Institute of Technology
10:00		Break
10:30	107	Good Taste: Field-Deployable Methods and Devices for Determination of Smoke Taint in Wine Grapes, Vincent Remcho , Erin Kalbaugh, Oregon State University
11:00	108	Fast Direct MS Screening with Chromatography/MS Confirmation with a Single SPME Device, Janusz Pawliszyn , Wei Zhou, University of Waterloo

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.

9:00	109	Living the Light, Geraldine Richmond , University of Oregon
9:30	110	When is it Good Enough? Rethinking Spectrometers as Fit for Purpose Analyzers and Meters, Adam J. Hopkins , Metrohm
10:00		Break
10:30	111	Under Pressure. Unraveling Liquid Monopropellant Combustion Mechanisms with Optical Emission Spectroscopy, Rob Walker , Montana State University
11:00	112	Structured Water and Surface Potential at Aqueous Interfaces: A New Angle on an Old Problem, Dennis Hore , University of Victoria

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

Chair: Michael McGinley - Sohve/Pharma Consulting

9:00	113	Analytical Science and Quality at the intersection of Pharma and Compounding Pharmacies, Michael McGinley , Sohve/Pharma Consulting
9:30	114	NERDVANA - The Place Where Science, Compliance and Common Sense Co-Exist, Carla Kutz , Click Compliance
10:00		Break
10:30	115	Analyzing Analytical Compendial Testing Requirements: A Comparison Across Regulatory Categories for Compounded Medications, Stephen Hoag , University of Maryland, Baltimore, School of Pharmacy
11:00	116	Harmonizing Analytical and Regulatory Considerations between Pharma and Compound Pharmacies, Teresa Spann , Fagron

Environmental Aspects and Analyses of PFAS and Microplastics

Chairs: James Stuart, Anthony Provas, University of Connecticut

9:00	117	Environmentally Relevant PFAS and Nanoplastics Disrupt Adult Female Ovarian Function in Mice, Genoa Warner , New Jersey Institute of Technology
9:30	118	Efficient Strategies for Selective Preconcentration of Per- and Polyfluoroalkyl Substances in Aqueous and Gas Phase, Emanuela Gionfriddo , University of Buffalo SUNY
10:00		Break
10:30	119	There may be ALOT of Barbie in All of Us; Could it be Nanoplastics?, Phoebe Stapleton , Rutgers University
11:00	120	Capture and Ingestion of Nanoparticles and Microplastics by Bivalve Molluscs: Implication for Bioaccumulation and Toxicity, Abhishek Naik , J. Evan Ward, University of Connecticut

Student Speed Session

Chair: Fernanda Delgado, University of Delaware

9:00	121	NanoLC-MS-Based Proteomic Analysis of the Human Cytomegalovirus Virus Microenvironment (VME) Enabled by a Novel Fluorescence Labelling Platform, Isabel Matthews , James C. Kostas, Ileana M. Cristea, Princeton University
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9:12	122	Forensic Analysis of a Wounded Book Held in WCU Special Collections, Madelyne Salgado , Zachary Voras, Ron McColl, West Chester University
9:24	123	Investigation the Effects of Overexpression and Down-expression of Human Jumping Translocation Breakpoint Protein (hJTB) in Using in Solution and Ingel Digestion Based Proteomics in MCF7 Cells, Peter Biggers , Taniya Jayaweera, Madhuri Jayathirtha, Costel C. Darie, Clarkson University
9:36	124	Optimizing a Point-of-Care Fluidic Electrochemical Assay for Cancer Biomarker Quantification, Athena Antippas , Edith Mauch, Middlebury College
9:48	125	Enhanced Ignitable Liquid Residue Differentiation Using Chemometrics and GCxGC-TOFMS, Madison O'Brien , Katelynn Perrault Uptmor, College of William and Mary
10:00		Break
10:30	126	Should We Use Splitless or Split Injection? Analyzing Active Pharmaceutical Ingredients with GC-MS, Alexander Bulsiewicz , Nicholas Snow, Seton Hall University
10:42	127	Detecting the Presence of PFAS in Household Aerosols and Cleaning Products: Assessing Hidden Contamination Using UPLC-MS/MS Technology, Marisa Vatteroni , Angelica Velasquez, Christopher Perkins, Anthony Provatas, Austin Pelletier, University of Connecticut
10:54	128	Method Development for the Determination of Fentanyl and Its Cutting Agents in Whole Blood Using GC-MS, Paige Ickes , Sarah Heinrichs, Constantinos Pistos, West Chester University of Pennsylvania, Lisa Mundy, Philadelphia Medical Examiner's Office
11:06	129	Targeted Quantitative Serum Proteomics Analysis in Donors with Breast Cancer (BC) and Matched Controls, Victor T. Njoku , Brian Pentecost, Kaya R Johnson, Sumona Mondal, Costel Darie, Clarkson University, Claudia Gaithe, Adeline Shanker, Robert Popp, MRM Proteomics Inc., Christoph H. Borchers, Segal Cancer Proteomics Centre
11:18	130	Early Development of a Novel Electrochemical Biosensor: Leveraging Bipolar Electrochemiluminescence for inexpensive Point of Care Biosensing, Jasper Pearcy-Kahn , Kira Rahn, Middlebury College
11:30	131	Understanding the Synthesis-Structure-Activity Relationship of Copper-Based Catalysts for CO2 Electrochemical Reduction with Machine Learning Toward More Sustainable Catalysis, Nhat Minh Dang , Caelin Celani, Adil Sheikh, Rachel Davidson, University of Delaware

Advances in Field-Ready Analytical Tools for Forensic Drug and Trace Evidence Analysis

Chair: Lydia Breckenridge, Bristol Myers Squibb

9:00	132	Illicit Drug Analysis in the Field with a Portable Instrument "Toolkit," 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
9:20	133	GCMS Analysis of Street Drugs Utilizing Hydrogen Carrier Gas in Combination with a HydrolInert EI Source, Alexis Willey , Kirk Lokits, Agilent Technologies

9:40	134	Analysis of New and Aged Bones by X-Ray Fluorescence Spectroscopy for Potential Estimation of Post-Mortem Interval, Michael Brown , Jacob Pate, Trinity Green, The University of Memphis
10:00		Break
10:30	135	Differentiation and Identification of Fentanyl Analogues Using Portable Mass Spectrometry, Richard Crocombe , Crocombe Spectroscopic Consulting, Mei Yuan, Marisia Fikiet, Brooke Kammrath, University of New Haven, Jeff Johnson, Seth Fisher, Astrotech Technologies, Inc., Don Ostrowski, Pauline Leary, NOBLE
10:50	136	GC-MS Analysis of Medetomidine Using S-TPC Derivatization, Harshitha Gajula , Ioan Marginean, University of Baltimore
11:10	137	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, Barbara Grace Saunders , Katelynn Perrault Uptmor, William & Mary

Modern HPLC Approaches: Method Optimization, Sustainability, and Selectivity

Chair: Mariann Neverovitch, Bristol Myers Squibb

9:00	138	Improving Sustainability through Modernization of LC Methods, Geoff Faden , MAC-MOD Analytical, Inc., Matt James, Gemma Lo, David Dunthorne, Arianne Soliven, Avantor Sciences, Tony Edge, University of Liverpool
9:20	139	Employing Multidimensional Design Space Modeling Across Frequent Chromatographic Challenges - Use Cases from Recently Published Results, Arnold Zoeldhegyi , Imre Molnar, Molnar-Institute, Krisztian Horvath, University of Pannonia, Robert Kormany, Egis Pharmaceuticals Plc
9:40	140	Greener Routine HPLC Analysis: Translation of USP Monographs to the Capillary Scale, Samuel Foster , Matthew Morse, Elisabeth Gates, Garrett Hellinghausen, Cary Simpson, John Stimus, Greg Ward, Axcend
10:00		Break
10:30	141	Design of High Performance of Ultrawide Pore SEC Stationary Particles, Kristine Camacho , Szabolcs Fekete, Matthew Lauber, Waters Corporation
10:50	142	Recent Developments in Inert Columns for HPLC Separations of Small Molecules, Thomas Walter , Kenneth Berthelette, Melissa Aiello, Jo-Ann Jablonski, Waters Corporation
11:10	143	Chromatographic Separation and Photodiode Array (PDA) Detector Identification of Synthetic Industrial Dyes in Foods, OTC Drugs, and Cosmetics, Catharine E. Layton , Paul D. Rainville, Amy Woodsmall, Waters Corporation

From Green Chemistry to Field Detection: New Solutions in Applied Analytical Science

Chair: Shelby Zangari

9:00	144	LUMA Real-World Examples of Solving Pharmaceutical Challenges, Rafael Acosta , VUV Analytics
9:20	145	Incorporating Ultrashort-Chain Compounds into the Comprehensive Analysis of PFAS in Potable and Non-Potable Waters, Justin Steimling , Shun-Hsin Liang, Restek Corporation

9:40	146	Developing an Electrochemiluminescence Biosensor in an Inexpensive Microfluidic Device, Kira Rahn , Jasper Pearcy-Kahn, Athena Antippas, Kieran Cross, Edith Mauch, Middlebury College	158	Measuring the Ligand Exchange Kinetics of Metal Chalcogenide Clusters Using Mass Spectrometry, Ronald Cutler , Bethany Phillips, Julia Laskin, Purdue University
10:00	147	DOZN™3.0 - A Quantitative Green Chemistry Evaluator for Sustainable Future, Ettigounder (Samy) Ponnusamy , MilliporeSigma	159	SpyCatcher-SpyTag for Hydrogen Deuterium Exchange Mass Spectrometry in Complex Protein Matrices, Zachary A. Cohen , Daniele Peterle, Bindu Y. Srinivasu, , John R. Engen, Thomas E. Wales, Northeastern University
10:20		Break	160	Measurements of Copper Content, Reactive Oxygen Species, and Metallothionein in Tetrahymena Thermophila, Frances Huff , Michelle Kovarik, Trinity College

Mass Spectrometry and Chromatographic Techniques for Biomarkers, Drug Monitoring, and Environmental Contaminants
Chair: Costel Darie, Clarkson University

9:00	148	Proteomic Analysis of Breast Milk for Early Detection of Breast Cancer: In-Gel Digestion Mass Spectrometry Approach, Aneeta Arshad , Brian T. Pentecost, Costel C. Darie, Clarkson University, Kathleen F. Arcaro, University of Massachusetts-Amherst
9:20	149	18O-Water Labelling Enables Protein Turnover Measurements in Embryogenesis, Martin Wühr , Edward Cruz, Argit Marishta, Alex Johnson, Michael Neinast, Joseph Crapse, Joshua Rabinowitz, Eric Wieschaus, Princeton University
9:40	150	Mass Spectrometric Based Approach for Lysosomal Storage Diseases Diagnostic in Newborns, Lawrence Tucker , Brindusa-Alina Petre, Costel C. Darie, Clarkson University, Laura Darie-Ion, Alexandru Ioan Cuza University of Iasi
10:00		Break
10:30	151	GCMS Low Energy Ionization to Differentiate Fentanyl and Nitazene Analogs, Erinn O’Neil , Kirk Lokits, Agilent Technologies
10:50	152	Current LC/MS Approaches for PFAS Analysis with Ultrashort and Long Chain Mixtures, Conner McHale , Barry Boyes, Josh McBee, Advanced Materials Technology
11:10	153	Assessing the Long-Term Stability of Synthetic Cannabinoids in Human Blood by LC-QQQ-MS, Katya Beltran , Thomas Jefferson University, Grace Cieri, Melissa Fogarty, Alex Krotulsk, Barry Logan, The Center for Forensic Science Research and Education

Tuesday, November 18: E-Poster Student Awardees Session; 11:30AM – 12:25PM

154	Protein Polymorphism Induced Reactive Oxygen Species(ROS) Transients in PC-12 Cells, Uma Nudurupati, Madeline Harper, John Williams III, Margaret Trout, James Stafford, David Punihaole, Yangguang Ou, University of Vermont
155	In-Depth Analysis of the Tear Fluid Glycoproteome Reveals Diverse Lacritin Glycosylation and Spliceoforms, Vincent Chang , Isaac Lian, Keira Mahoney, Stacy Malaker, Yale University, Niclas Karlsson, Oslo Metropolitan University
156	Interactions of Protein and Peptide Ions with Acoustic Fields at Atmospheric Pressure through Acoustic Ion Manipulation (AIM), Julia Danischewski , Jacob Shelley, Rensselaer Polytechnic Institute, Josefin Hufgard, Yi You, Jens Riedel, Federal Institute for Materials Research and Testing (BAM) Germany
157	Spot On: A Green(Er) Approach to Dried Matrix Spots for Analysis with Liquid Microjunction – Surface Sampling Probe – Mass Spectrometry Aided by Computer Vision, Daniel Reddy , Katherine Williams, Malek Hassan, Randy Ellis, Richard Oleschuk, Queen’s University at Kingston

158	Measuring the Ligand Exchange Kinetics of Metal Chalcogenide Clusters Using Mass Spectrometry, Ronald Cutler , Bethany Phillips, Julia Laskin, Purdue University
159	SpyCatcher-SpyTag for Hydrogen Deuterium Exchange Mass Spectrometry in Complex Protein Matrices, Zachary A. Cohen , Daniele Peterle, Bindu Y. Srinivasu, , John R. Engen, Thomas E. Wales, Northeastern University
160	Measurements of Copper Content, Reactive Oxygen Species, and Metallothionein in Tetrahymena Thermophila, Frances Huff , Michelle Kovarik, Trinity College
161	Synergistic Arg-C Ultra and Lys-C Digestion for Quantitative Proteomics, Vyas Pujari , Joseph Crapse, Connor Nisbet, Gloria Bao, Wessley Ferguson, Princeton University, Christopher Hosfield, Michael Rosenblatt, Promega Corporation

Tuesday, November 18: E-Poster Morning Session; 11:30AM – 12:25PM

162	A Comprehensive Study of Sera from Women with Breast Cancer and Age-Matched Controls to Identify Potential Protein Biomarkers, Hailey Morrissey , Danielle Whitham, Pathea Bruno, Brian Pentecost, Costel Darie, Clarkson University
163	Proteomic Analysis and Comparison of Stage IIA T1N1 ER/ PR Negative Serum to Controls for Identification of Potential Biomarkers for Breast Cancer (BC), Niyogushima Nuru , Costel C. Darie, Danielle Whitham, Brian T. Pentecost, Clarkson University
164	Analysis of Nitrite in Pharmaceutical Excipients Using HPLC with UV and Fluorescence Detection, Reyhane Shavandi , Jinjian Zheng, Merck & Co., Inc.
165	Integration of Process Analytical Technology during the Scale-Up of Heterogeneous Dynamic Kinetic Resolution Using In-Line Mid-IR Spectroscopy for the Real-Time Monitoring of a Key Starting Material for Lenacapavir API, Roudabeh Sadat Moazeni Pourasil , Rama Krishna Sayini, Naeem Asad, Daniel W. Cook, Barrack Stubbs, Samuel Hochstetler, Justina M. Burns, Li-Mei Jin, Ryan Littich, B. Frank Gupton, M4ALL (VCU)
166	Nanobubble Characterization Using Nanoparticle Tracking Analysis (NTA) and Dynamic Light Scattering, Sowmya Atukuri , Wen Zhang, New Jersey Institute of Technology, Shan Xue, Purenano Tech Inc., Julie Y.Chen, HORIBA, Instruments Inc.
167	Conductive Polymer Nanofibers for Biological Sensing Applications, Kimberly Liu , Rebecca Hunter, The College of New Jersey
168	Rose to Rose Absolute: Does QuEChERS do More Harm than Good on Trace Analysis, James Mizvesky , Alexander Bulsiewicz, Nicholas Snow, Seton Hall University
169	Copper-Directed Regioselective Hydroxylation of Acetonaphthone Substrates—Synthesis and NMR Characterization, Annie Shen , Bryn Mawr College
170	High Sensitivity mAb Titers and Dual Attribute Analysis for Application in Bioprocessing, Beatrice Muriithi , Martin Gilar, Fabrice Gritti, Yeliz Sarisozen, Stephan Koza, Matthew Lauber, Kevin Wyndham, Waters Corporation
171	GCxGC Inlet Pressure Programs for the investigation of Olive Oil Polyphenols Content, Nazanin Keyhani , Nicholas Snow, Seton Hall University
172	Rapid Detection of Microplastics and Nanoplastics in Seconds by Mass Spectrometry, Mengyuan Xiao , Yongqing Yang, Hanin Alahmadi, Allison Harbolic, Terry Yu, Alex Guo, Jerry Liu, Genoa R Genoa Warner, Hao Chen, New Jersey Institute of Technology, Phoebe Stapleton, Rutgers University

Tuesday, November 18: E-Poster Afternoon Session; 12:30PM – 1:25PM

173	Spectral Analysis of Broad-Spectrum Sunscreens Using HPLC and a Photo Diode Array Detector (PDA), Catharine E. Layton , Paul D. Rainville, Amy Woodsmall, Waters Corporation
174	Analytical Risk Assessment (ARA) Using Failure Mode Effects Analysis (FMEA) as an ICH Q9 Tool: A Generic Guide and a Case Study, Partha Mukherjee , Steven Tuske, Eudean Garces, Saroj Ramdas, Amicus Therapeutics
175	A Proteomics Investigation of Human Sera from African American Donors with Invasive Ductal Carcinoma Breast Cancer and Matched Controls, Angiolina Hukovic , Logan Seymour, Panashe Mutsengi, Danielle Whitham, Brian Pentecost, Costel Darie, Clarkson University
176	MauriceFlex Fractionation of Charge Variants Accompanied by LC-MS and Digital SPR Analysis Correlates Structure to the Function of a mAb, Peter Johnson , Bio-Techne
177	Utilizing X-Ray Fluorescence for Rapid and Cost-Effective Characterization of Soil and Water Samples in Reservoirs Potentially Impacted by Heavy Metal Contamination, Debbie Siples , Katherine Gruchot, Malvern Panalytical
178	Analysis of PFAS in Tap Water Using a Pentafluorophenyl Column, Norikazu Nagae , Tomoyasu Tsukamoto, Ryuji Koyama, ChromaNik Technologies Inc., Tadashi Kitta, Hirotake Takahashi, Japan Food Inspection Corporation
179	Quantification of Polysorbate 20 in a Biological mAb IgG Drug Products by HPLC with ELSD and Post Column Diversion Valve Configuration, Ashok Palakurthi , Lars Soderstrom, Sharp Sterile Manufacturing LLC
180	The Identification of Protein Biomarkers in Human Breast Milk for Early Detection of Breast Cancer: A 6v6 Study, Benjamin Priest , Victor Njoku, Costel Darie, Clarkson University, Kathleen Arcaro, University of Massachusetts-Amherst
181	Microwave-Assisted Digestion and ICP-MS for Trace Element Analysis in Dietary Supplements and Mushrooms, Alicia Stell , Samuel Heckle, Macy Harris, CEM Corporation
182	Identification of PFAS in Surface Samples Using FTIR Analysis, Austin Pelletier , University of Connecticut
183	Evaluating the Separation Efficiency of Two-Dimensional Gel Electrophoresis Using Rat Liver Proteins, Natalie Waterman , Kimberly Dunn, Pathea Bruno, Costel Darie, Clarkson University
184	The Role of Metal and Substituents in the Stability of Zn(II) and In(III) Phthalocyanines, Kshmeya Chopra , Ciara Taggart, Marius Pelmus, Seton Hall University
185	Using the Systematic Screening Protocol and Inert Surface Columns to Separate Seven Janus Kinase Inhibitors, Melissa Aiello , Kenneth Berthelette, Waters Corporation
186	Non-Invasive Textile Blend Identification via Multivariate Analysis of FORS Data, M. Fernanda Delgado Cornelio , Caelin Celani, Katelyn Blair, Levi Bielewicz, Jocelyn Alcantara Garcia, Karl Booksh, University of Delaware
187	Optimized In-Gel Tryptic Digestion Protocols Using Bovine Serum Albumin for Enhanced Mass Spectrometry-Based Proteomic Analysis, Stephanie Andreescu , Danielle Whitham, Norman Haaker, Hailey Morrissey, Costel C. Darie, Brindusa Alina Petre, Clarkson University

Tuesday Afternoon, November 18, 2025

EAS is honoring ALL 6 of our awardees in a special award session **1:15PM – 4:30PM**. All registered attendees and exhibitors are invited to attend. A complimentary Mixer will be held in the Exposition Rooms immediately following the Award Session.

EAS AWARD SESSION
Chaired by Tom Brettell, Cedar Crest College

1:15PM; EAS YOUNG INVESTIGATOR AWARD
I Spy with My Chromatographic Eye: Seeing More in Every Sample (#188)
Honoring **Katelynn Perrault Uptmor**, William and Mary
Sponsored by GSK

1:45PM; EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN MAGNETIC RESONANCE
The Essentiality of Solution NMR Spectroscopy in the Post-AlphaFold Era (#189)
Honoring **Lewis E. Kay**, University of Toronto
Sponsored by Bruker BioSpin & New Era Enterprises

2:15PM; EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN THE FIELDS OF ANALYTICAL CHEMISTRY
Nature-Inspired Chemical and Biochemical Analysis: New Frontiers in Affinity Separations (#190)
Honoring **David S. Hage**, University of Nebraska-Lincoln
Sponsored by Bristol Myers Squibb

Break 2:45PM – 3:00PM

3:00PM; EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN SEPARATION SCIENCE
Good ‘Ole GC: Are We Teaching an Old Dog New Tricks? (#191)
Honoring **Nicholas H. Snow**, Seton Hall University
Sponsored by Restek Corporation

3:30PM; EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN MASS SPECTROMETRY
Advancements in Mass Spectrometry for Spatial Omics and Systems Biology (#192)
Honoring Ljiljana **Paša-Tolić**, Pacific Northwest National Laboratory
Sponsored by American Microchemical Society

4:00PM; EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN CHEMOMETRICS
Rethinking Confidence Intervals in Multivariate Classification (#193)
Honoring **Karl Booksh**, University of Delaware
Sponsored by Eigenvector Research

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Wednesday Morning, November 19, 2025

Predictive Sciences for Chromatographic Method Development
Sponsored by Amgen
Chairs: Pankaj Aggarwal, Merck & Co., Inc., Imad Haidar Ahmad, Amgen

9:00	194	Analytical Method Development and Transfer Enabled by In Silico Chromatography Modeling, Imad Haidar Ahmad, Troy Handlovic, Muhammad Qamar Farooq, Daipayan Roy, Amgen
9:30	195	Extending Machine Learning Based Retention Time Prediction by Modeling Multiple Chromatography Conditions, Armen Beck, Andrew Singh, Gwentyth Jones, Jonathan Fine, Rojan Sresthra, Edward Sherer, Katharine Williams, Erik Regalado, Pankaj Aggarwal, Merck & Co., Inc.
10:00		Break
10:30	196	Molecular Dynamics Prediction of Analyte Retention in Reversed-Phase and Mixed-Mode Liquid Chromatography: Can Artificial Intelligence Rise to the Task?, Fabrice Griitti, Waters Corporation
11:00	197	Deep Transfer Learning for Elution Time Prediction in Liquid Chromatography, Haixu Tang, Yuhui Hong, Indiana University

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

9:00	198	Achieving Paramount Selectivity: Bioanalytical Method Design for LC-MS/MS Interference Elimination and Recent Case Studies, Kasie Fang, GSK
9:30	199	Enabling Separation of Large Nucleic Acids by a Novel Slalom Chromatographic Technique, Jamuna Vaishnav, Kennedy Sawyer, Fabrice Griitti, Mandana Fasth, Christian Reidy, MingCheng Xu, Kevin Wyndham, Matthew Lauber, Balasubrahmanyam Addepalli, Waters Corporation
10:00		Break
10:30	200	Quantifying Electrostatic Effect in Hydrophilic Interaction Chromatography (HILIC), Yong Guo, Fairleigh Dickinson University
11:00	201	Advanced Chromatographic Method Development to Enable Comprehensive Control Strategies for Complex Drug Modalities, Howard Hongyue Guo, GSK

The Use of Innovative Atomic Spectrometry Strategies to Solve Challenging Chemical Problems
Chair: Steven Ray, State University of New York at Buffalo

9:00	202	New Instrumental Strategies in Analytical Atomic Spectrometry, Steven Ray, State University of NY at Buffalo
9:30	203	New Advances Using LA-ICP-MS and LIBS on Environmental Medicine, Mauro Martinez, Icahn School of Medicine at Mount Sinai
10:00		Break

10:30	204	Understanding Ionization and Fragmentation Processes in Solution-Cathode Glow Discharge Mass Spectrometry, Jacob Shelley, Jared Viggers, Courtney Walton, Rensselaer Polytechnic Institute, Josefin Hufgard, Humboldt University of Berlin
11:00	205	A Public Health Laboratory Approach to Arsenic Speciation Analysis of Food Matrices Using Isocratic Elution LC-ICP-MS/MS, Patrick Parsons, Austin Roberts, Christopher Palmer, NY State Department of Public Health

Demystifying Machine Learning: A Tutorial on Multivariate Analysis
Chair: Caelin Celani, University of Delaware
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.

Room: Witherspoon C; 2 nd Floor		
9:00	206	Foundations of Chemometric Modelling: A Practical Guide to Preprocessing, Validation, and Feature Selection, Caelin Celani, University of Delaware
9:30	207	Exploratory Data Analysis: Standard Tools & Modern Alternatives, Steve Driscoll, Repligen Corporation
10:00		Break
10:30	208	Modelling: Calibration & Regression, Cannon Giglio, Oak Ridge National Laboratory
11:00	209	Modelling: Cluster Analysis & Classification, Alexis Weber, PerkinElmer

Characterization of Cultural Heritage Objects
Sponsored by Kenescott Fdn, NY Conservation Fdn
Chair: John Scott, Kenescott Fdn, NY Conservation Fdn and Zachary Voras, West Chester University of Pennsylvania

Room: Stockton C; 1 st Floor		
9:00	210	Authentication of a ‘Wounded’ Book Aboard the USS Enterprise in the War of 1812, Zachary Voras, Madelyne Salgado, Ron McColl, West Chester University of Pennsylvania
9:30	211	Curly Crinoid: Characterization of Natural and Treatment-Induced Deterioration of a Jurassic Fossil Slab, Mariana Di Giacomo, Yale Peabody Museum, Anikó Bezur, Richard Hark, Yale Institute for the Preservation of Cultural Heritage
10:00		Break
10:30	212	Noninvasive Examination of Old Master Paintings, Erich Uffelman, Washington and Lee University, Jessica Roeders, Mireille te Marvelde, Frans Hals Museum
11:00	213	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

PAT, It’s What you Don’t See that Counts!
Chair: James Rydzak, Specere Consulting

9:00	214	Real-Time, Multi-Attribute PAT Integration for Rapid mRNA Manufacturing, Hossein Hamedj, Edita Botonjic-Sehic, Re-ciparm Advanced Bio
9:30	215	Elena Hagemann, Metrohm USA
10:00		Break

10:30	216	Using BlazeMetrics Imaging and Particle Size to Understand Suspension Formulation Behavior, Gregory Lane, Georgios Pyrgiotakis, Gary McGeorge, Elaine Pu, Barton Dear, Nicole Taylor, Freddy Arce, Umesh Kestur, Yue Schuman, Bristol Myers Squibb
11:00	217	The Perfect Match: Coupling PAT, Sustainability and QbD in the Pharma/BioPharma Environment, John Wasylyk, Robert Wethman, Bristol Myers Squibb

Analytical Innovation for Complex Materials and Emerging Contaminants
Chair: Anthony Provatas, University of Connecticut

9:00	218	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, Richard Verseput, S-Matrix Corporation
9:20	219	Comparing C18-Type Stationary Phases to Biphenyl Using an LC Virtual Method Development Tool, Melinda Urich, Restek Corporation
9:40	220	Evaluation of Hybrid Silica C18 End-Capped with Bidentate Silylating Reagent for HPLC, Scott Silver, Pyvot, Norikazu Nagae, Tomoyasu Tsukamoto, Ryuji Koyama, ChromaNik Technologies Inc.
10:00		Break
10:30	221	The Importance of Refractive Index Accuracy in Determining Drug Payload Using Measured Particle Size for Lipid Nanoparticles, Matt McGann, Beverly Barnum, Sean Race, Bettersize, Inc.
10:50	222	Rapid Detection of Microplastics and Nanoplastics in Seconds Bymass Spectrometry, Hao Chen, New Jersey Institute of Technology

Translational Proteomics and Bioanalysis: From Biomarkers to Biotherapeutics
Chair: Suzanne Schreyer, Rigaku Analytical Devices

9:00	223	Uncovering the Tear Fluid Glycoproteome in Dry Eye Disease, Vincent Chang, Isaac Lian, Keira Mahoney, Stacy Malaker, Yale University, Niclas Karlsson, Oslo Metropolitan University
9:20	224	Peptidomic In-Gel and In-Solution Comparative Study of Serum Samples from Women with Invasive Ductal Carcinoma Breast Cancer, Pathea S. Bruno, Kaya R. Johnson, Lilian G. Corrice, Brian T. Pentecost, Costel C. Darie, Clarkson University
9:40	225	Investigation of the effects of Human Jumping Translocation Breakpoint (hJTB) Protein Using Two-Dimensional-PAGE Coupled with nLC–MS/MS-Based Proteomics, Taniya Jayaweera, Krishan Weraduwege, Madhuri Jayathirtha, Costel Darie, Biochemistry & Proteomics Group, Clarkson University
10:00		Break

Wednesday, November 19: E-Poster Session: 11:30PM – 12:25PM

226		Effect of Solvent, pH, Temperature, Ionic Strength and Analyte Concentration on QS-21 Isomerization Measurements by Liquid Chromatography, Natalia Marusa, Adam Sutton, David Foley, Merck & Co., Inc.
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227		Beyond ADC Characterization: Biotherapeutics Analysis with TSKgel® HIC-ADC™ Columns, Corey Meadows, Tosoh Bioscience, LLC
228		Absolute Quantitation of Phosphopeptides and Glycopeptides Using Coulometric Mass Spectrometry, Md. Tanim-Al Hassan, Timothy Yaroshuk, Hao Chen, New Jersey Institute of Technology
229		Analysis of Trace Elements in Coastal Seawater by ICP-MS, Andrea Palpini, PerkinElmer
230		Optimizing Column Geometry for Micro-Flow LC/MS, Jason Anspach, Roxana Eggleston-Rangel, Gareth Friedlander, Phenomenex
231		Expanding the Toolbox for HPLC-MS/MS PFAS Profiling in Wastewater and Sludge, Charles Powley, Jimmy Murillo-Gelvez, Jessica Anton, Justice Woke, Center for PFAS Solutions
232		Analysis of Whole Blood Using ICP-MS Universal Cell Technology, Brady Frill, PerkinElmer
233		Random Forest Models for Predicting Fluorescence Absorption, Emission, and Quantum Yield, Alexander Dang, Newark Academy, Maximus Elmorry, High Tech High School, Yuanwei Zhang, Haoran Liu, Zhi Wei, New Jersey Institute of Technology
234		Simultaneous Chiral and Achiral Separation of Several THC Isomers by SFC, John Ferraro, Weston Umstead, Daicel Chiral Technologies
235		Metal-Doped Boron Nitride as a Dual-Function Electrocatalyst for Nitrate and CO ₂ Reduction, Meisu Wang, Princeton High School, Rehan Qureshi, Xianqin Wang, New Jersey Institute of Technology
236		Performance of Commercial Labs in the Application of Per- and Polyfluorinated Alkyl Substance Measurement Methods for Industrial Matrices, Cher Lindelien, Waruna Kiridenia, Giffe Johnson, NCASI
237		Development of Monomeric Ruthenium-based Catalysts for Water Oxidation, Alfredo Di Paola, Charles Spath, Sophie McCarrick, Brinda K. Narayana, Peter Bonitatibus, K.V. Lakshmi, Rensselaer Polytechnic Institute
238		Preliminary Associations Between Sebum Lipid Profiles and the Scalp Microbiome, Shamish Ganpule, Vanessa Castro, Ernesta Malinauskyte, TRI Princeton
239		Integrating Heavy Isotope Labeling and Mass Spectrometry–Based Proteomics Reveals YeaG as a Key Regulator of Protein Degradation in E.coli, Ananya Solanki, Wessley Ferguson, Martin Wühr, Lewis-Sigler Institute for Integrative Genomics
240		Automated Sample Preparation of Solid Dosage Forms: A Comparative Evaluation of Manual and JetXTM Technology, Oluwaseun Fapohunda, Madeline Diaz-Serrano, Hardi Ghelani, Merck & Co., Inc.
241		Quantitative Assessment on the Impact of Music on Athletic Performance: A Correlation Between Music and Performance Confidence in Squash, Angela Du, Princeton Day School
242		High-Throughput Quantitation of Plasma Trimethylamine N-oxide Using Desorption Electrospray Ionization Mass Spectrometry for Rapid Cardiovascular Disease Screening, Kai-Yuan Chiu, National Taiwan University
243		Spectroscopic Investigation of the Energetics of Electron Transfer in the MenB Variant of Photosystem I, Brandon Russell, Patrick Landry, K.V. Lakshmi, Rensselaer Polytechnic Institute, Vasily Kurashov, David Iwig, John Golbeck, The Pennsylvania State University, Wade Johnson, Susquehanna University, Chris Gisriel, University of Wisconsin-Madison, Art van der Est, Brock University, David Vinyard, Louisiana State University

Wednesday Afternoon, November 19, 2025

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

Sponsored by the Coblenz Society

Chair: Richard Crocombe, Crocombe Crocombe Spectroscopic Consulting

1:00	244	Understanding and Navigating Sampling Challenges in FT-IR Spectroscopy, Peter Larkin , Syensqo
1:30	245	“Just Stick it in the Instrument and Scan it!” - Guiding Engineers (and others) Through the Art of Analytical Spectroscopy, Jay Powell , Analytical Answers
2:00	246	Method Optimization and Data Processing for Thermogravimetric Analysis Coupled with Fourier Transform Infrared Spectroscopy (TGA-FTIR), Justin Lang , Justin Linehan, PerkinElmer
2:30	247	Diamond ATR: The Good, the Bad and the Ugly, Ellen Miseo , Miseo Consulting, Peter Larkin, Syensqo, Technology Solutions

Green Technology for Heritage Conservation

Sponsored by Kenescott Fdn, NY Conservation Fdn

Chair: John Scott, Kenescott Fdn, NY Conservation Fdn and Rosie Grayburn, Winterthur-University of Delaware

1:00	248	Developments in Safer Solvent Selections for the Removal and Application of Synthetic Resins, Rosie Grayburn , University Delaware Winterthur
1:30	249	Solvent Use in Conservation: Global Trends and the Path Toward Greener Practices, Ka Yee (Christy) Ching , University of Delaware, Rosie Grayburn, Winterthur
2:00	250	Varnish, Vanish, Regs, Needs - Solvents in Fine Art, Ulysses Jackson , Golden Artist Colors, Inc.
2:30	251	Heritage Sector and Life Cycle Assessment for Sustainable Choices, Sarah Nunberg , The Objects Conservation Studio, LLC

Industrial Microscopy

Chair: Peter Diaczuk, New York Microscopical Society

1:00	252	A Scientific Inquiry into Jean-Michel Basquiat’s Lost Subway Portfolio, Nicholas Petraco , Petraco Consulting
1:30	253	A Series of Case Studies: Microscopy in Material Analysis, Tony Havics , pH2. LLC
2:00	254	Overcoming Challenging Sampling: How Stereomicroscopy Improved GC/MS Analysis, Heather Harris , Arcadia University
2:30	255	Illuminating the Invisible: Microscopy at the Intersection of Science and Art, Danielle Parsons , Wonder Science

Next-Generation Analytical Strategies for Emerging Biopharmaceutical Modalities

Chair: Jianchao Xu, Purdue University

1:00	256	Advanced Analytical Workflows for Accelerating the Pace of Drug Development, 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 Guillarme, Institute of Pharmaceutical Sciences of Western Switzerland
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1:20	257	Analytical Characterization of Solid Oral Protein Therapeutics, Lulu Dai , Genentech
1:40	258	Extensive Characterization of Circular RNA Impurities: Analytical Characterization, Yvonne Shieh , Ravikiran Yerabolu, William Cantara, Zhongfeng (Frank) Zuo, Matthew Schombs, Merck & Co., Inc.
2:00	259	Challenges on Process Equipment Related Leachables Analysis for Biologics Manufacturing, Bin Sun , Cytiva
2:20	260	Advancing Nucleic Acid Analysis: Large-Pore Superficially Porous Particles for Enhanced Separations, Peter Pellegrinelli , Barry Boyes, Brian Wagner, Joshua McBee, Stephanie Schuster, AMT
2:40	261	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, 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.

Imaging and Vibrational Techniques for Spatial and Chemical Profiling

Chair: Fernanda Delgado, University of Delaware

1:00	262	Automated Iterative Targeted Detection in Hyperspectral Imaging – Fast, Accurate Detection of Minor Target Signal in a Swamp, Neal Gallagher , Eigenvector Research, Inc.
1:20	263	Understanding Regional Molecular Alterations in Scn2a Mutated Mouse Brains Using Nanospray Desorption Electrospray Ionization Mass Spectrometry Imaging, Alyssa Moore , Xiaoling Chen, Emerson Hernly, Jingliang Zhang, Yang Yang, Julia Laskin, Purdue University
1:40	264	High-Speed IR Microplastic Analysis with <300 nm Spatial Resolution, Jay Anderson , Eoghan Dillon, Mustafa Kansiz, Photothermal Spectroscopy Corp.
2:00	265	Sub-Micron Multimodal IR (O-PTIR) Micro-Spectroscopy to Improve Pharmaceutical Product Knowledge and Process Understanding, Mustafa Kansiz , Photothermal Spectroscopy Corp., Kevin Dahl, Particlese

Gas Chromatography and Mass Spectrometry for Environmental, Regulatory, and Multicomponent Sample Analysis

Chair: Kate Jackson, Colgate Palmolive Company

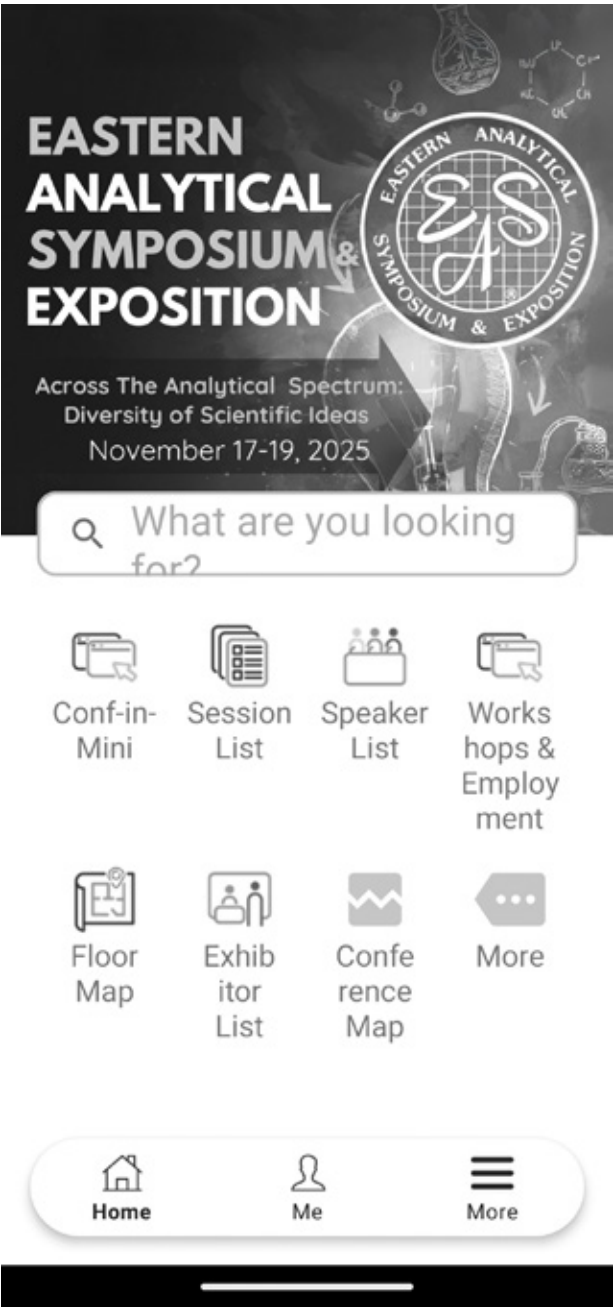
1:00	266	Identification of Key Sensory-Active Compounds in Cannabis by Aroma Dilution Analysis, Nicole Kfoury , Megan Harper-Kerr, GERSTEL, Inc.
1:20	267	Fast Analysis of 140 Pesticides, PAHs, and PCBs by GC/MS/MS, Erinn O’Neill , Alexis Willey, Agilent Technologies
1:40	268	Octahydroacridine Artifact Generated in Gas Chromatography Injector during Extractable & Leachable Study of a Medical Device, Yunyun Yuan , Ying Jiang, Yijun Lu, Johnson & Johnson MedTech

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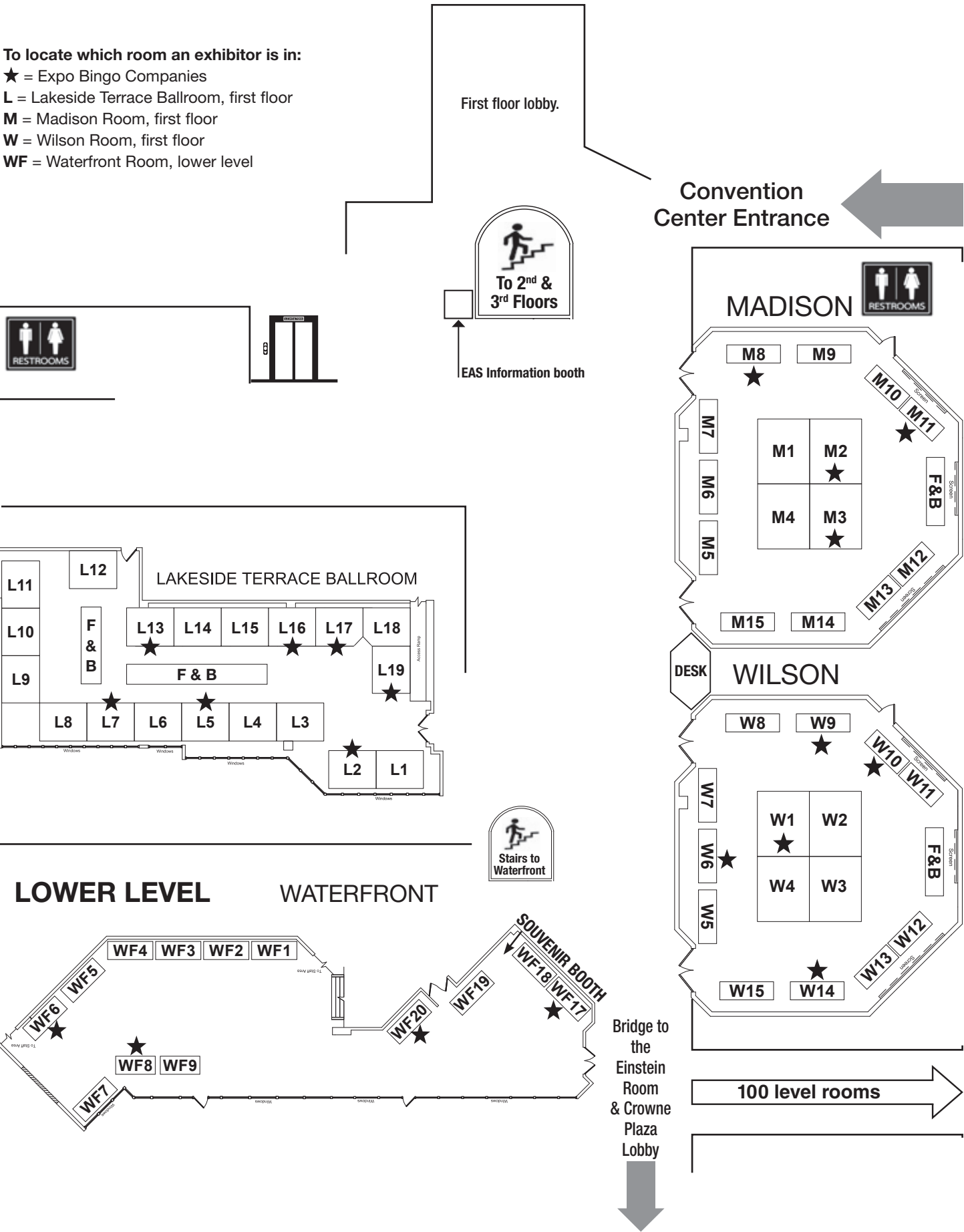
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- W = Wilson Room, first floor
- WF = Waterfront Room, lower level



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Last updated November 7, 2025

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ALMA – WF6

ASAP Analytical – M6

attocube systems Inc. – M13

Axceed – M5

Bettersize Inc. – L9

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Cambrex ESDT – W5

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- NanoChrom Technologies – W11

NJ ACS – WF8

New York Microscopical Society – WF9

NY/NJ SAS –WF7

Oakwood Chemical – WF4

PDR-Separations – W2

Peak Scientific – WF3

Pharm Ops – W9

Photothermal Spectroscopy Corp. – M7

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Pyvot – W6

REGIS Technologies – M11

Renishaw –M9

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Rigaku – L12

Rudolph Research Analytical – L17

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SCIEX – M1

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Sotax – L8

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Thermo Fisher Scientific – L13

Tosoh Bioscience LLC – W15

Trajan LPP – L7

Verder Scientific Inc. – M2

VICI DBS USA – W13

Waters – W1

For more information, please contact Janine Kishbaugh at exposition@cas.org or 610-509-2354

2025 EAS Awards

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

EAS Award for Outstanding Achievements in the Fields of Analytical Chemistry, honoring Professor David Hage, University of Nebraska-Lincoln; sponsored by Bristol Myers Squibb



David S. Hage is the James Hewett University Professor and a Professor in the Department of Chemistry at the University of Nebraska-Lincoln. His research interests involve the design and use of new affinity-based separations and methods in high-performance liquid chromatography, capillary electrophoresis, and other systems for the study or analysis of complex samples. Specific interests include chromatographic-based immunoassays, the study of biological interactions by employing affinity-based separation methods, the production of new supports or immobilization schemes for affinity-based methods, and the creation of miniaturized separation platforms for personalized medicine and environmental studies. Prof. Hage is the author of over 350 research publications, reviews, and book chapters, including the Handbook of Affinity Chromatography. He is an AAAS Fellow, a member of the National Academy of Clinical Biochemistry, and the Editor-in-Chief for the Journal of Chromatography B. His research in analytical and bioanalytical chemistry has been recognized by his receipt of such honors as the American Chemical Society Chromatography Award, the University of Nebraska Outstanding Research and Creative Activity Award, the ISMR/Pierce Award in Affinity Technology, the Eastern Analytical Symposium Award for Outstanding Achievements in Separation Science, and the American Association for Clinical Chemistry Young Investigator Award. Prof. Hage is also known for his efforts in education in analytical chemistry. For instance, he is the lead author of the textbook Analytical Chemistry and Quantitative Analysis, and he is a co-author or contributor to many other texts in analytical chemistry or related fields. His work in education and mentoring has been recognized by the College Distinguished Teaching Award, Excellence in Graduate Education Award, and Lily Sands Legacy Award from the University of Nebraska. He has also recently received the International Federation of Clinical Chemistry Award for Distinguished Contributions to Education and the American Association for Clinical Chemistry Award for Outstanding Contributions to Education.

EAS Award for Outstanding Achievements in Separation Science, honoring Professor Nicholas H. Snow; sponsored by Restek Corporation



Nicholas H. Snow is the Thomas and Sylvia Tencza Professor and Chair of Chemistry and Biochemistry at Seton Hall University. He holds a BS in Chemistry from the University of Virginia and a PhD in Analytical Chemistry from Virginia Tech, where he worked under Professor Harold McNair. He has been with Seton Hall since 1994 and has mentored 25 PhD and MS thesis students and dozens of undergraduates. He has authored or co-authored over 100 journal articles and two books, mostly relating to gas chromatography, GC-MS, sample preparation, and including most areas of separation science. He has co-taught over 100 short courses covering the breadth of separation science. At Seton Hall he is recipient of the Bishop Bernard J. McQuaid Medal for outstanding long-term university service and the Albert Hakim Faculty Service Medal for service to the faculty. He was a founding member of the University Teaching Fellows, a GEM Teaching Fellow and Peer Leader in the University Seminar on Mission and has been recognized for outstanding teaching and service to students by the Seton Hall Board of Regents. As an academic leader, he has served as Middle States Re-accreditation Faculty Chair, Department Chair, Associate Provost, and Director of Sponsored Research. He has served on the Governing Board of the Eastern Analytical Symposium for 30 years and was President in 2001. He is the GC Connections Editor of LCGC International, Associate Editor of the Journal of Liquid Chromatography and Related Technologies and he serves on the Editorial Boards of Separations, Journal of Pharmaceutical Innovation and Green Analytical Chemistry.

EAS Award for Outstanding Achievements in Magnetic Resonance, honoring Professor Lewis E. Kay, University of Toronto; sponsored by Bruker BioSpin and New Era Enterprises



Lewis E. Kay is a molecular biophysicist recognized for his work in the development and application of solution nuclear magnetic resonance spectroscopy. Kay is particularly well known for his studies of biomolecular dynamics and for his work exploring the role of dynamics in the function and malfunction of the molecular machines of the cell. He is a Professor of Molecular Genetics, Biochemistry, and Chemistry at the University of Toronto and a Senior Scientist at the Hospital for Sick Children. Kay grew up in Edmonton, Alberta at about the same time as his beloved Edmonton Oilers were winning Stanley Cups. He received his B.Sc. in Biochemistry from the University of Alberta in 1983 and his Ph.D. in Biophysics from Yale University in 1988, pursuant to which he spent three years as a postdoctoral fellow in Chemical Physics at the NIH. Professor Kay is a fellow of the Royal Societies of Canada and London. Research in the Kay laboratory focuses on the development of NMR techniques for studying macromolecular structure, dynamics and function and on the application of NMR spectroscopy and other biophysical methods to problems of biological and clinical importance. In particular, the research is focused on studies of molecular machines, including the proteasome as well as other protein machines involved in cellular homeostasis. The work builds on methodological developments by his laboratory that facilitate studies of protein complexes in the mega-Dalton molecular weight range. A second major focus involves studies of “invisible” states of biomolecular conformers. Here his laboratory develops the framework to study sparsely populated, transiently formed ‘invisible’ conformations of biomolecules that are implicated in function and in disease. The methodology is applied to a wide spectrum of protein systems. A third area of interest is focussed on atomic resolution studies of phase separation using recently developed NMR experiments.

EAS Award for Outstanding Achievements in Mass Spectrometry, honoring Dr. Ljiljana Paša-Tolić, Pacific Northwest National Laboratory; sponsored by the American Microchemical Society



Ljiljana (Lili) Paša-Tolić received her PhD in Chemistry at the University of Zagreb in Croatia, was a postdoctoral fellow at Pacific Northwest National Laboratory (PNNL) and visiting scientist at the National High Magnetic Field Laboratory. Today she is a Laboratory Fellow and Lead Scientist at the Environmental Molecular Sciences Laboratory (EMSL) located at PNNL. She is known for her pioneering contributions to mass spectrometry, high-throughput, and top-down proteomics, including the development of transformative instrumentation and methods for biological and environmental research. Dr. Paša-Tolić has authored more than 300 peer-reviewed publications; presented at more than 150 seminars, conferences, and workshops; and served at numerous editorial and advisory committees. She was a founding organizer to the worldwide Consortium for Top-Down Proteomics (CTDP), a nonprofit corporation that works toward the goal of accelerating “the comprehensive analysis of intact proteins and their complexes” and is currently serving on the CTDP Board. She has mentored more than 50 students and post-doctoral fellows, and organized several conferences, workshops, symposia, and schools focused on various aspects of analytical chemistry, omics, and mass spectrometry. In 2019, 2021 and 2024, she was selected for the Analytical Scientist Top 100 Power List, recognizing her pioneering contributions to high resolution mass spectrometry for applications ranging from environmental ecology to medicine, and she received the Jochen Franzen Award from the International Mass Spectrometry Foundation in 2024 for “outstanding contributions to innovations in structural, spatial and/or separation analysis with mass spectrometry”. Dr. Paša-Tolić was elected to the Washington State Academy of Sciences (WSAS) in 2021 and is currently serving on the WSAS Board.

EAS Award for Outstanding Achievements in Chemometrics, honoring Professor Karl Booksh, University of Delaware; sponsored by the Eigenvector Research



Karl Booksh is a Professor of Chemistry and Biochemistry at the University of Delaware. He received his undergraduate degree from the University of Alaska, Fairbanks, and doctorate from the University of Washington, Seattle, working under Professor Bruce Kowalski at the Center for Process Analytical Chemistry. He was also an NSF Postdoctoral Fellow at the University of South Carolina. Prof. Booksh’s primary area of research is chemometrics and machine learning with a current interest in employment of hand-held or portable spectroscopic sensors in process analytical chemistry, environmental analyses, and cultural heritage applications. He has experience in excitation-emission matrix fluorescence spectroscopy, Raman imaging, laser induced breakdown spectroscopy, and surface plasmon resonance spectroscopy. He has authored over 150 papers in these fields. Prof. Booksh has been active in professional societies being named a Fellow of the Society for Applied Spectroscopy (SAS) and a Fellow of the American Chemical Society. He previously served as President of the SAS and is currently an Associate Editor of Applied Spectroscopy Practica and a member of the SAS Governing Board.

EAS Young Investigator Award, honoring Katelynn Perrault Uptmor, College of William and Mary; sponsored by GSK



Katelynn Perrault Uptmor is an Assistant Professor of Chemistry at William & Mary (W&M) and the Principle Investigator of the Nontargeted Separations Laboratory research group. She obtained her PhD from University of Technology Sydney in Australia and performed a Postdoctoral Fellowship at the University of Liège in Belgium. She also worked as faculty at Chaminade University of Honolulu in the Forensic Sciences/Chemistry program from 2017-2023 prior to starting at W&M in August 2023. Her research group is comprised of Undergraduate and Masters research students in the area of analytical chemistry working on forensic, food and natural product applications. Her research focuses on using comprehensive two-dimensional gas chromatography (GC×GC) to uncover volatiles as mediator chemicals in processes associated with life, health, disease, and death. This research highlights the use of GC×GC in a wide range of fields and has been recognized by several major awards including the ACS Satinder Ahuja Award for Young Investigators in Separation Science, the John B. Phillips Award, the Henry Dreyfus Teacher Scholar Award, and The Analytical Scientist’s Top 40 Under 40 Power List (2018 and 2022). Dr. Perrault Uptmor is a big advocate for training the next generation of analytical chemists and is extremely active in mentoring students at the undergraduate level to get involved in research.

New York/New Jersey Society for Applied Spectroscopy Gold Medal Award

On Tuesday, November 18 at 9:00 AM, **Professor Geraldine L. Richmond**, University of Oregon will receive the New York Society for Applied Spectroscopy Gold Medal Award.



Geraldine L. Richmond currently serves as the Presidential Chair in Science and Professor of Chemistry at the University of Oregon. Bridging the fields of chemistry and physics, Richmond’s research focuses on understanding the molecular characteristics of water surfaces, studies relevant to environmental issues such as oil remediation, atmospheric chemistry, and alternative energy sources. Her teaching and extensive outreach efforts have focused on science communication and building a strong, inclusive workforce. She is the Founding Director of COACH, a grass-roots organization that has helped over 25,000 women scientists and engineers in career advancement in the U.S. and over two dozen developing countries. Richmond has received numerous honors and awards for her research and outreach efforts, including the National Medal of Science from President Obama (2016), the Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring from President Clinton (1997), and the Presidential Young Investigator Award from President Reagan (1985). She has also given over 100 distinguished lectureships and addresses since 2000.



ALVIN BOBER SEMINAR SERIES

EAS offers seminars essentially for high school students and teachers and college students. Seminars are included with the college student registration.

Better Justice with Forensic Chemistry
Dr. Michelle Miranda, Farmingdale State College
Wednesday, November 19 from 10:00 AM - 12:00 PM
Room 207; 2nd Floor

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.

Looking for Career Advice?
Join us for SPEED MENTORING!

The Coblentz Society will offer an in-person Speed Mentoring event on Monday, November 17 from 11:45 AM – 1:15 PM on the Lower Level in **Bridgeview**. Speed Mentoring is a fun and fast-paced session that provides structured interactions with two dozen or more scientists from various industries, academia, and government labs; this enables the mentees to get an understanding of what it’s like to work in these areas. The interactions can be the basis of an ongoing mentoring relationship session if that is of mutual interest. This is a wonderful networking opportunity for job hunting or just getting a better understanding of life as a scientist. Speed Mentoring is a great way to connect students with a variety of mentors and spark conversations about many possible career paths.

Lunch is provided; space is limited, and we encourage you to register in advance.

Exposition & Special Events

Social Times **IN THE EXPO**

Lakeside Terrace, Madison, Wilson, & Waterfront



Coffee

10:00 a.m. to 10:30 a.m.

Monday & Tuesday – Sponsored by S-Matrix
Wednesday – Sponsored by ACS NY Section



Snacks

2:30 p.m. to 3:00 p.m.

Monday – Sponsored by S-Matrix



Receptions

Monday 5:15 p.m. to 6:30 p.m.

Tuesday 4:30 p.m. to 6:00 p.m.

Exposition & Special Events

Waters™

Waters Corporation invites you to explore our innovative solutions with our scientific team on Monday 10:00 AM - 5:30 PM, Tuesday 10:00 AM-5:30 PM and Wednesday 10:00 AM -1:00 PM in Room 109.

Visit the Waters demo room and experience:

- **Alliance™ iS HPLC system:** the intuitively simple HPLC system designed to reduce common errors, enhance efficiency, and increase uptime
- **DAWN™ MALS detector** with the Arc™ Premier LC System for absolute molar mass and size characterization
- **Xevo™ MRT mass spectrometer:** our state-of-the-art QToF delivering performance and speed without compromise
- **A New Generation of Detection from Waters:** Pushing the limits and new depths of insight

For more information about the Waters Demo Room, please contact Maggie_Christian@waters.com

EXPO BINGO

B	I	N	G	O
RCG	HALO	ALMA	Coblenz SOCIETY	Simulation Technologies
GERSTEL	IonBench	JEOL	LNT	North Jersey Section
Pharm Ops	pyvot	REGIS	RESTEK	RUDOLPH RESEARCH ANALYTICAL
SHIMADZU	ThermoFisher	TRAJAN LPP	VERDES	Waters

Get a sticker for every square & be entered to win!

WINNERS CHOOSE FROM 1 OF 3 PRIZES
\$100 AMAZON GIFT CARD
FREE 2026 EAS REGISTRATION
FREE 2026 EAS SHORT COURSE REGISTRATION*

*REQUIRES PURCHASE OF EAS REGISTRATION

2025 EAS SHORT COURSE SCHEDULE

Short Courses are an additional fee and space is limited; registration is required • All Short Courses are full-day from 8:30 AM – 5:00 PM

Date(s)	Courses Names	Instructor(s)
Nov. 16 & 17	Practical LC-MS/MS Method Development and Sample Preparation	Perry Wang, LC-MS Technical Expert
Nov. 16 & 17	HPLC and UHPLC for Practicing Scientists 1 and 2: Fundamentals, Method Development, and Troubleshooting	Michael Dong, MWD Consulting
Nov. 16	Practical NMR Spectroscopy	Damodaran Achary, University of Pittsburgh
Nov. 16	Introduction to Quantitative Spectroscopy for Near Infrared and Raman Instrumentation	Debbie Peru, DP Spectroscopy & Training, LLC
Nov. 16	LA-ICP-MS: Theory, Practice, and Environmental and Biological Applications	Dula Amarasiriwardena, Hampshire College
Nov. 16	Chromatographic Methods of Analysis of Oligonucleotides, siRNA, and mRNA	Martin Gilar, Waters Corporation
Nov. 16	Process Analytical Technology: Out of the Lab & into the Line	James Rydzak, Specere Consulting
Nov. 16	Successfully Implementing Key Elements of the USP and ICH Guidances in an Enhanced Analytical Procedure Development Workflow	Richard Verseput, S-Matrix Corporation
Nov. 17	Getting the most from GC and GC/MS	Gregory Slack, Consultant Nicholas Snow, Seton Hall University
Nov. 17	Analytical Method Validation and Lifecycle Management – FDA, ICH and USP Expectations, Kim Huynh-Ba, Pharmalytik, LLC	Kim Huynh-Ba, Pharmalytik, LLC
Nov. 17	Advanced Chemometrics without Equations (or Hardly Any)	Neal Gallagher, Eigenvector Research
Nov. 17	Data Analysis Skills for Chromatographers	Merlin Bicking, ACCTA, Inc.
Nov. 18	Systematic HPLC Troubleshooting	Merlin Bicking, ACCTA, Inc.
Nov. 18	Introduction to Data Analytics for Analytical Chemists	Mary Kate Donais, Anslem University
Nov. 18	PFAS - A Wonder Chemical which became a Nightmare	Jay Meegoda, NJ Institute of Technology
Nov. 18	Analytical Target Profile: An Introduction and its Strategic Link to Quality Target Product Profile and Analytical Life Cycle Management	Partha Mukherjee, Amicus Therapeutics
Nov. 18	Collecting Infrared Spectra and Avoiding the Pitfalls	Ellen Miseo, Miseo Consulting Jeff D'Agostino, Specac
Nov. 18	An Overview of Drug Development, Drug Quality, Regulatory, and Quality Control Processes	Michael Dong, MDW Consulting
Nov. 18	Practical Bioanalytical Method Validation by LC-MS/MS	Perry Wang, LC-MS Technical Expert

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:



Zachary Cohen
Northeastern University
Nominated by Prof. Thomas Wales



Frances Huff
Trinity College
Nominated by Prof. Michelle Kovarik



Ronnie Cutler
Purdue University
Nominated by Prof. Julia Laskin



Vyas Pujari
Princeton University
Nominated by Prof. Martin Wühr



Vincent Chang
Yale University
Nominated by Prof. Stacy Malaker



Uma Nudurupati
University of Vermont
Nominated by Prof. Yangguang Ou



Julia Danischewski
Rensselaer Polytechnic Institute
Nominated by Prof. Jacob Shelley



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 11:30 PM – 12:25 PM

WORKSHOPS

Take advantage of these FREE workshops to improve your job seeking skills!

Monday, November 17, 12:00 PM – 1:00 PM
Unlocking Your Potential: Navigating Career Change
Reno DeBono, Ph.D., QC Manager – Analytical & Metals
EMD Electronics (Electronic Business of Merck KGaA, Darmstadt Germany)
Room: Einstein, 1st Floor

Are you ready for a career change? Join us in this interactive workshop led by Dr. Reno DeBono, QC Manager at EMD Electronics. Whether you’re a seasoned professional or just starting your career, this session will empower you to:

1. Discover Core Skills:

 - Understand and communicate your existing skill sets.
 - Identify transferable skills that can open new doors.
2. Explore New Career Paths:

 - Learn about core skills required in different industries.
 - Find opportunities beyond your current specialty.
3. Problem-Solving and Value Creation:

 - Analyze gaps and challenges in potential roles.
 - Discover how you can bring unique value to a position or company.
4. Share Success Stories:

 - Learn how to showcase your achievements effectively.
 - Craft compelling narratives for interviews and networking.
5. Generalize Specialized Knowledge:

 - Adapt highly specialized expertise to broader contexts.
 - Enhance your versatility and adaptability.

Join us and unlock your potential for a successful career transition!

Tuesday, November 18, 12:00 PM – 1:00 PM
Maneuvering the Science Job Market – Insights from Both Sides of the “Job Coin”
Jan Peters, PhD, Principal Scientist, Merck & Co., Inc
Room: Einstein, 1st Floor

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 2025 EAS Employment Bureau has gone virtual! All EAS attendees who wish to review posted jobs can access them via this QR Code to the Virtual Employment Bureau, which is also available on signage throughout the symposium. Exhibitors have QR Code(s) for their specific job posting(s), which are available at their exhibitor booths. If you are interested in a position, please contact the employer directly with your interest; EAS is not facilitating any communication between employers and job seekers. For your convenience, Room 201 is available during the symposium for meetings and interviews on a first-come, first-serve basis. All job postings will remain available for at least one month after the symposium closes. Employers are responsible for emailing employment@eas.org if a position has been filled so it can be removed from the Virtual Employment Bureau. There is no fee to post jobs.



HEADSHOTS

NEW this year EAS will offer **FREE** headshots during each day of the symposium in the Exposition area! A digital download will be available after the symposium. Visit us in the Exposition the following dates/times:

- Monday from 9:00 AM -10 AM
- Tuesday 3-4 PM
- Wednesday 8:30-9:00 AM

Reach out to employment@eas.org with any questions.

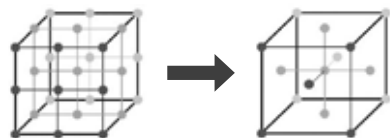


Fighting the World's
Toughest Diseases

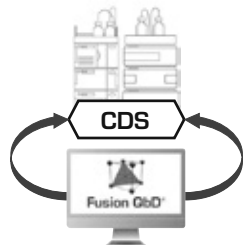


- Liquid Chromatography
- Gas Chromatography
- Capillary Electrophoresis
- Sample Preparation
- Replication Strategy

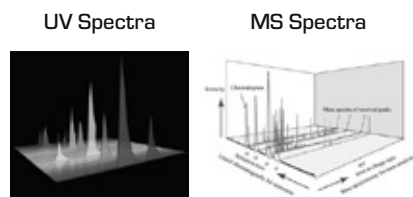
Powerful, Flexible, Automated
Design of Experiments



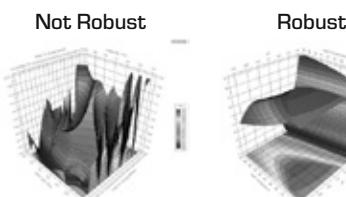
Experiment While You Sleep –
Walk-away CDS Automation



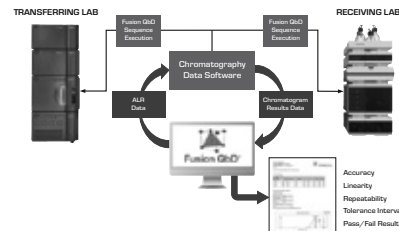
UV & MS Spectra-based
Peak Tracking



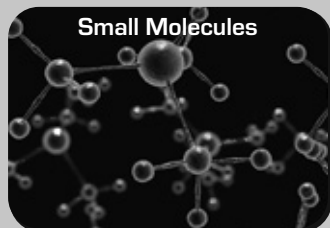
Advanced Chromatography Modeling
& Robust MODR Optimization



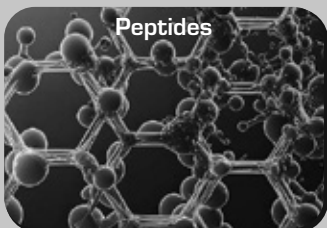
Automated Method
Validation & Transfer



Small Molecules



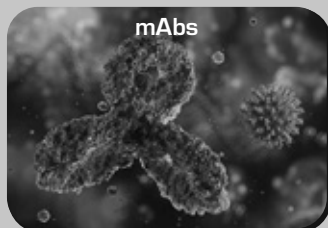
Peptides



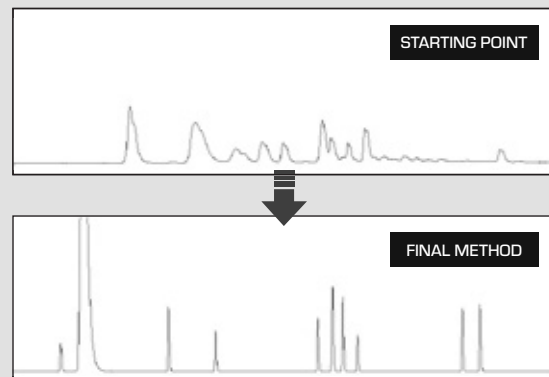
Oligonucleotides



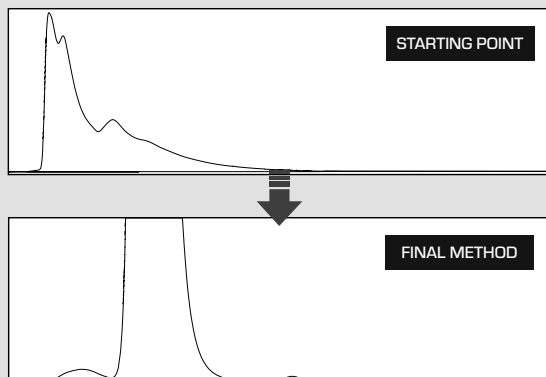
mAbs



Small
Molecule
Example



Large
Molecule
Example



Visit us at Wilson Room Booth 4
EAS 2025, Plainsboro, New Jersey, USA

www.smatrix.com

2025 Exhibitor Descriptions

Updated November 6, 2025

To locate which room an exhibitor is in:
L = Lakeside Terrace Ballroom, first floor
M = Madison Room, first floor

W = Wilson Room, first floor
WF = Waterfront Room, lower level

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The Association of Laboratory MAnagers (ALMA) strives to enable managers of laboratory based organizations to become better leaders through conferences and workshops, and with opportunities to network and share ideas with peers from around the world. ALMA, an IRS 501(c)3 nonprofit organization, is led by a volunteer board of active laboratory managers. Their commitment to educating their peers is evident in their planning and organizing of our outstanding Annual Conference.

American Chemical Society, NY Local Section

928 Summit Avenue, Jersey City, NJ 07307, www.newyorkacs.org
Founded in 1891, the NY Local Section has over 4,000 members and hosts over 100 events each year. Our mission is to advance the broader chemistry enterprise and its practitioners for the benefit of the earth and its people. The NY Section includes all five boroughs of NYC, Long Island, Westchester, Rockland Counties and Hudson & Bergen Counties in New Jersey. If you are a chemist or in a related field and live or work in the section's geographic area we invite you to join us. The link below is new membership page: https://join.acs.org/eweb/ACSOMATemplate.aspx?site=ACS_OMA&WebCode=CreateAccount&sc=190101_join_button_GlobalNav_od Although it is the ACS, international member can join as well as domestic. After joining the National ACS you can select a local section to join and one of the 32 technical divisions. Each Technical Division focuses on a specific type of chemistry. www.newyork.acs

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Axcent delivers advanced liquid chromatography solutions, including the Axcent Focus LC®, AutoFocus™, InFocus™, and FocusArray™. These robust, easy-to-use systems provide realtime, accurate data with a small footprint, while reducing operating costs and solvent consumption.

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Bettersize provides instruments for precise analysis of particle size, shape, zeta potential, powder characteristics, and physical stability. With over 22,000 devices installed and 106+ patents, we lead Asia in particle characterization. Our technologies include laser diffraction, dynamic light scattering, image analysis, and gas pycnometry. Contact us to learn more or visit us at EAS in New Jersey!

BrightSpec, Inc.

770 Harris St., Suite 104b, Charlottesville, VA 22903, www.brightspec.com
BrightSpec, Inc. is a commercial-stage life science tools company pioneering the use of Molecular Rotational Resonance to characterize molecules in the digital age. Combining the structural power of NMR with the speed, accuracy, and precision of Mass Spectrometry, MRR provides comprehensive small molecule identification in a single instrument. Rapid, accurate results are obtained directly from complex samples by eliminating the need for chromatography.

CE Elantech

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CE Elantech, Inc., founded in 1995, distributes Thermo Scientific's Combustion Elemental Analyzers and Gas Chromatography instruments in North America. With a nationwide network, we offer sales, service, and technical support. Our Technical Applications Laboratory aids with method development. We are also the North American distributor for Global Analyser Solutions' Compact GC. Built on family values, we've become a trusted lab tech supplier, committed to quality and customer service.

M6

CFDV

www.cfdv.org
CFDV was founded in 1966 and is one of the world's first discussion groups. The Forum fosters chromatographic community, promotes professional development, and educates members. Meetings are held in-person and virtually monthly where scientific leaders present their latest research enabling scientists and suppliers to meet informally. Yearly, a spring symposium is held in conjunction with short courses; student awards and the recognized Dal Nogare Award in Chromatography are also given.

Cambrex ESDT

3501 Tricenter Blvd, Suite C, Durham, NC 27713, www.cambrex.com/
Cambrex is a leading global contract development and manufacturing organization (CDMO) that provides drug substance development and manufacturing across the entire drug lifecycle, as well as comprehensive analytical and IND enabling services. With over 40 years of experience and a team of 2,000 experts servicing global clients from North America and Europe, Cambrex offers a range of specialized drug substance technologies and capabilities.

Coblentz Society, Inc., The

c/o 1836 Hardman Ave, Napa, CA 94558, www.coblentz.org
The Coblentz Society, founded in 1954, is a non-profit organization of scientists interested in fostering the understanding and application of vibrational spectroscopy within the fields of chemistry, physics, and biology. Vibrational spectroscopy includes infrared (IR), near-infrared (NIR), and Raman spectroscopies along with their associated sampling techniques, instrumentation, and data processing. The Coblentz Society is a technical affiliate of the Society for Applied Spectroscopy (SAS).

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Dissolution Technologies is an indexed peer-reviewed quarterly publication that contains scientific and regulatory information on in vitro release testing. A Question and Answer feature answered by USP experts is in every issue. The website, www.dissolutiontech.com, is a free open access and is searchable. Current and previous articles are available on-line and can be downloaded. There are over 3700 subscribers (25% international), register on website for the free mailed subscription.

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119 Comac Street, Ronkonkoma, NY 11779, www.elementar.com/en-us
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At Ellab, we're your dedicated partner in achieving end-to-end compliance with tailored solutions that protect your products, optimize operations, and drive success. With global reach and local expertise, we deliver integrated compliance solutions across validation, calibration, and monitoring. Our mission is to lighten the compliance burden and empower you so we can create a healthier tomorrow together.

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GERSTEL, Inc. specializes in developing and producing systems for chemical analysis, focusing on automated sample preparation & introduction for GC-MS/LC-MS. We address sample preparation and clean-up techniques to achieve low detection limits. We are part of Advanced Automation Technologies family of brands which includes Skalar, PromoChrom, LCTech, EST Analytical, tsHR and TE, enhancing efficiency and accuracy in lab workflows while expanding global product and service capabilities.

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HORIBA provides Raman microscopes, Raman-AFM/TERS, and steady state & lifetime fluorescence platforms for academic R&D and industrial QC/QA for applications from life science to materials science. The A-TEEM method combines the best features of spectroscopy (rapid, simple sample prep), with those of chromatography (low detection limits, high sensitivity and selectivity). HORIBA partners with OEM customers to provide miniaturized Raman systems for high volume, dedicated applications.

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NanoChrom Technologies 4F, Building 37, Nanopolis, China-Singapore Suzhou Industrial Park, Suzhou, Jiangsu 215000 www.nanochrom.com <i>NanoChrom Technologies (NanoChrom) is a technology-driven company specializing in design, development and manufacturing chromatography consumables. Our extensive product portfolio comprises Bio-Core columns for antibody-based therapeutics, DNACore columns for RNAs/DNAs, ChromCore columns for small molecules, and SelectCore sample preparation products. Our solutions cater to a diverse array of industries, including pharmaceuticals, biotechnology, food & beverage, environmental, chemical, etc.</i>	W11
NJ ACS www.njacs.org	㊤㊤㊤㊤ ㊤㊤㊤㊤ WF8

New York Microscopical Society c/o John Scott, PO Box 20098, New York, NY 10011, www.nyms.org <i>The New York Microscopical Society (NYMS) was established in 1877 with its mission being the promotion of the theoretical and applied microscopy and the promotion of education and interest in all phases of microscopy.</i>	WF9
New York/New Jersey Regional Section of SAS Lebanon, NJ 08833, www.s-a-s.org <i>Our Mission is to advance and disseminate knowledge and information concerning the art and science of spectroscopy and other allied sciences. The Society for Applied Spectroscopy supports networking among professional researchers, graduate students, and undergraduate students. Since 1952, the New York/ New Jersey Regional Section of the Society for Applied Spectroscopy has sponsored the Gold Medal Award program at EAS.</i>	WF7
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PIC Solution, Inc. 12396 World Trade Drive, Suite 216, San Diego, CA 92128, www.pic-sfc.com <i>PIC Solution is a global manufacturer of eco-sustainable Supercritical Fluid Chromatography (SFC) and Extraction (SFE) with greater than 20-years' experience working with the Pharma. PIC Solution provides equipment for chiral and achiral separations at the analytical, research, process, and industrial scale. PIC Solution also offers services for custom purification and extraction.</i>	WF19
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Photothermal Spectroscopy Corp. 325 Chapala Street, Santa Barbara, CA 93101, www.photothermal.com <i>Photothermal Spectroscopy Corp has pioneered the breakthrough technique of Optical Photothermal Infrared (O-PTIR) spectroscopy that overcomes key limitations of traditional IR and Raman spectroscopy providing sub-micron IR chemical spatial resolution. The mIRage-LS multi-modal microscope uniquely provides simultaneous O-PTIR and Raman, new Fluorescence based Widefield OPTIR, and co-located O-PTIR and Fluorescence microscopy for high-speed spectroscopy of bio-molecular studies.</i>	M7
Pursuit Scientific 900 Ocean Drive, #122, Cape May, NJ 08204, www.pursuitscientific.com <i>Expert Sample Vial Solutions - Direct from Manufacturers to Scientists: With decades of specialized experience in glass forming, surface treatments and plastics, our team of experts has been the trusted manufacturing partner behind the sample vials used by leading scientific instrument companies worldwide. Now, through our innovative direct partnership model, we're bringing this same premium quality directly to the scientists and laboratories who rely on our products every day.</i>	M12
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Rigaku 9009 New Trails Drive, The Woodlands, TX 77381, www.rigaku.com <i>Rigaku manufactures XRD, XRF and CT instruments for research, testing, industrial process control and product development: the MiniFlex benchtop XRD, Supermini 200 benchtop WDXRF system, SmartLab diffractometers with SAXS and micro-diffraction, ZSX Primus series WDXRF spectrometers (with tube-above or tube-below configurations), CT Lab HX and Nano3DX CT imaging systems.</i>	L12

Rudolph Research Analytical 55 Newburgh Road, Hackettstown, NJ 07840, www.rudolphresearch.com <i>Rudolph Research Analytical The Rudolph Refractometer, Density Meter, Autopol Polarimeter, Saccharimeter and Automation products are used globally by more than 8,000 customers. Our instruments are utilized in the most demanding Pharmaceutical, Chemical, University, Petroleum, Sugar, Food, and Beverage Labs. Quality, Integrity, and Innovation for over 50 years is reflected in all aspects of our business. Booth L17 info@rudolphresearch.com https://rudolphresearch.com</i>	㊤㊤㊤㊤ ㊤㊤㊤㊤ L17
S-Matrix Corporation 1594 Myrtle Avenue, Eureka, CA 95501, www.smatrix.com <i>S-Matrix is the developer of Fusion QbD® – the perfect integration of chromatography modeling, DoE, CDS experiment automation, and full regulatory alignment and compliance. LC and LC-MS method development with UV and MS peak tracking, retention-based resolution modeling, special Large Molecule separation metrics, Forced Degradation Study automation, Replication Strategy optimization, and Method Validation & Transfer studies. Also supports Sample Prep, GC, CE, and Dissolution method development.</i>	W4
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Sciencetech Laboratories, LLC 107G Corporate Blvd., South Plainfield, NJ 07080, www.sciencetech-labs.com <i>Sciencetech Laboratories is a FDA cGMP-compliant analytical services business supporting the Pharmaceutical, OTC drug, Cosmetics, Dietary Supplement, and Botanicals industries for over 40 years. Our labs in New Jersey provide quality testing of finished products and raw materials, services for product development, process development, formulation, and stability studies. Sciencetech supports product safety with extractables & leachables, nitrosamines, microbiology, and heavy metals testing.</i>	W8
Shimadzu Scientific Instruments, Inc. 7102 Riverwood Dr, Columbia, MD 21227, www.ssi.shimadzu.com <i>Shimadzu provides a broad range of analytical instruments indispensable for research, development and quality control in a variety of fields. Our high-level, sophisticated instruments include chromatographs, spectrometers and elemental and surface analysis systems. We also provide a broad range of high-precision physical testing and measuring technology that is essential for product development and quality assurance.</i>	㊤㊤㊤㊤ ㊤㊤㊤㊤ L2
Sotax 2400 Computer Drive, Westborough, MA 01581, www.sotax.com <i>SOTAX is a leading global provider of complete testing solutions for Research and Development (R&D), Quality Control (QC), and In-Process Control (IPC) departments of the pharmaceutical industry. Our instruments, software, and services are recognized by our customers worldwide as the industry benchmark for best-in-class solutions. Products include Dissolution USP 1/2/5/6, Dissolution USP 4, Physical Testing, Hardness Testing, Sample Preparation, Data Management and Pharma Services.</i>	L8

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Tosoh Bioscience LLC 3604 Horizon Drive, Suite 100, King of Prussia, PA 19406 www.separations.us.tosohbioscience.com/home <i>Tosoh Bioscience is a worldwide provider of U/HPLC columns and multi-angle light scattering (MALS) detectors for the analysis of biotherapeutics and polymers. Tosoh has supplied biopharma professionals with trusted analytical solutions for over 50 years, and we are constantly innovating novel consumables and instruments to improve analytical workflows for scientists around the globe.</i>	W15
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VICI DBS USA 7255 Langtry, Houston, TX 77040, www.vicidbs.com <i>VICI DBS manufactures hydrogen, nitrogen and zero air gas generators to eliminate high purity gas cylinders from the laboratory. There is no longer any need to buy and store cylinder reserves and use laboratory space as protection from late cylinder delivery, transportation interruptions, or periods of tight supply. With gas generators, you control supply. These state-of-the-art gas generators can continuously generate ultra-high purity gases for GC, LC/MS, ELSD, TOC, ICP and AA instrumentation.</i>	W13
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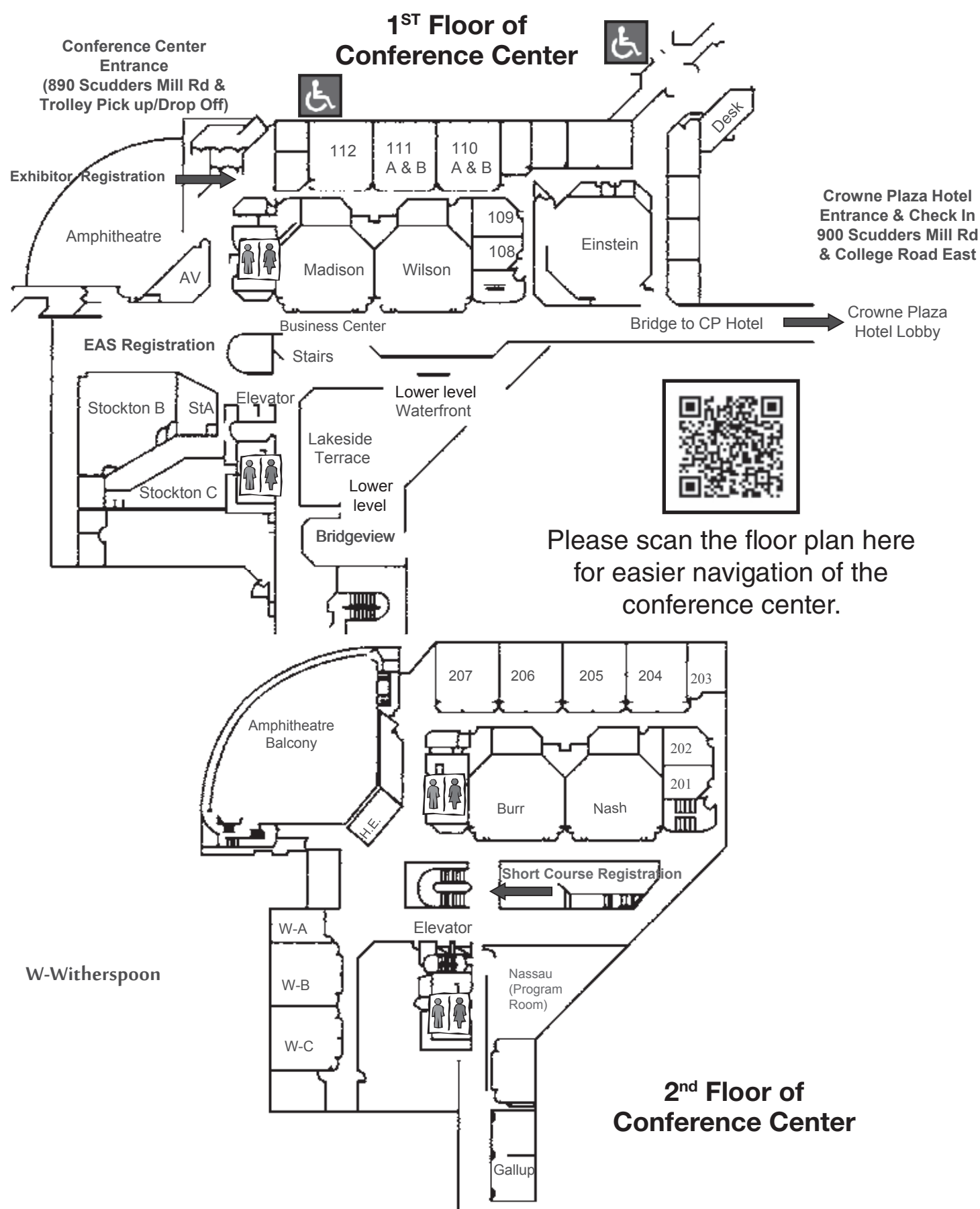
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