EASTERN ANALYTICAL SYMPOSIUM & EXPOSITION

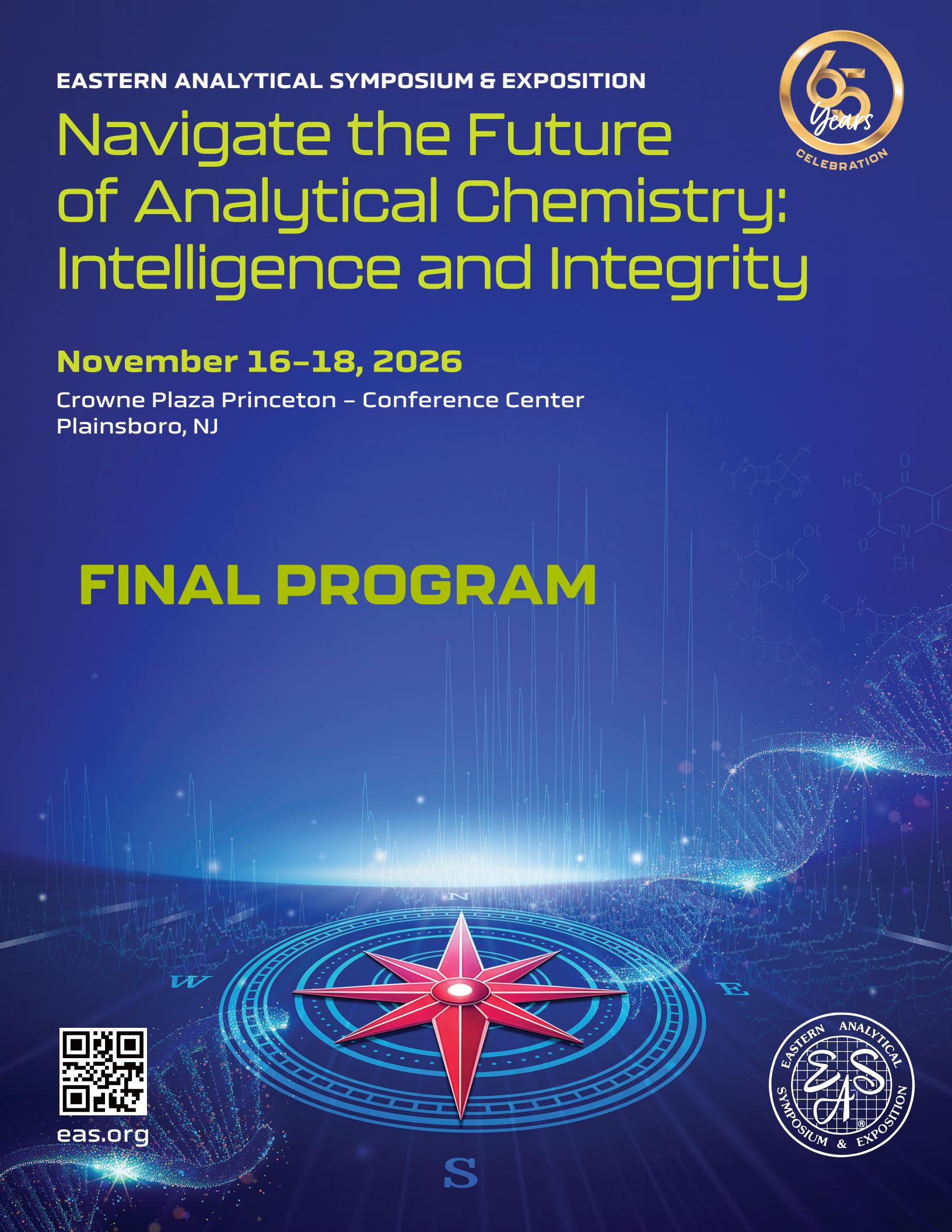
Navigate the Future of Analytical Chemistry: Intelligence and Integrity

65 Years CELEBRATION

November 16–18, 2026

Crowne Plaza Princeton – Conference Center
Plainsboro, NJ

FINAL PROGRAM

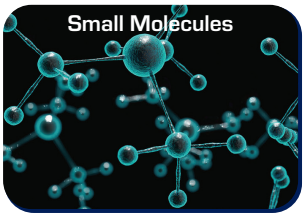


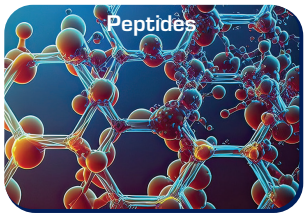
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EASTERN ANALYTICAL SYMPOSIUM & EXPOSITION

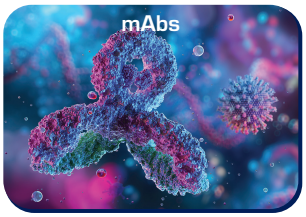
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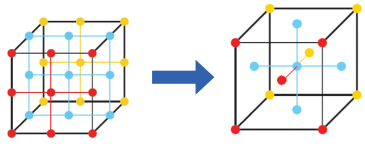
LC and LC-MS Methods

Sample Prep Methods

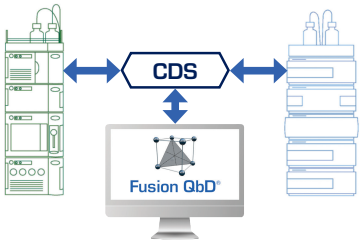
Non-LC Methods

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

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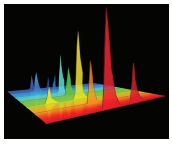


Experiment While You Sleep — Walk-away CDS Automation

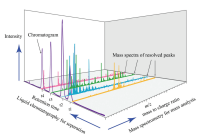


UV & MS Spectra-based Peak Tracking

UV Spectra

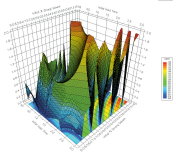


MS Spectra

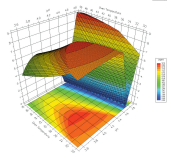


Advanced Chromatography Modeling & Robust MODR Optimization

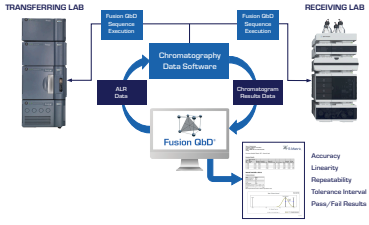
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PRESIDENT'S WELCOME MESSAGE – EAS 2026



Welcome to the **2026 Eastern Analytical Symposium and Exposition** (EAS) as we celebrate our 65th Anniversary!

This year's theme, **"Navigate the Future of Analytical Chemistry: Intelligence and Integrity"**, is highlighted by our Keynote lecture, ***AI-Ready Data and Analytical Methods for Health Research,*** delivered by Dr. Christopher R. Kinsinger, Assistant Director for Catalytic Data Resources at the National Institutes of Health (NIH) Common Fund, on Monday, November 16. This event is accompanied by several dedicated sessions on artificial intelligence in analytical chemistry, featuring expert presentations and an in-person workshop spanning the three-day symposium.

We invite you to explore our technical program packed with sessions covering excellent research across diverse fields, including pharmaceuticals, forensics, environmental science, foods, cannabinoids, and science education. In honor of our **65th Anniversary**, a special session "**EAS's 65th Anniversary**" on Monday afternoon (November 16) will bring together renowned researchers to share their stories and unique perspectives on the evolution of analytical chemistry.

On Tuesday afternoon, November 17, please join us for the **EAS Special Award Session** to celebrate the pioneering research of all six of our 2026 EAS Awardees, including:

- **Professor Richard van Breemen**, Oregon State University, for the Outstanding Achievement in the Fields of Analytical Chemistry
- **Dr. David Bell**, Phiex Technologies, for the Outstanding Achievements in Separation Sciences
- **Professor Joshua Coon**, University of Wisconsin-Madison, for the Outstanding Achievements in Mass Spectrometry
- **Professor Robert Schurko**, Post-Humous, Florida State University, for the Outstanding Achievements in Magnetic Resonance
- **Professor Brooke Kammrath**, University of New Haven, for the Outstanding Achievements in Vibrational Spectroscopy
- **Professor Xin Yan**, Texas A&M University, Young Investigator Award

Beyond the technical sessions, we invite you to explore our vibrant exhibition floor, connect with instrument manufacturers, view live demonstrations, and evaluate cutting-edge technologies transforming today's laboratory workflows. While on the floor, be sure to participate in our Expo Bingo game by visiting exhibitor booths for a chance to win exciting prizes. Plus, new this year, you can vote for the exhibitors with the most personable booth staff, best swag, and most aesthetically pleasing booth. See the posted signs to cast your vote! Finally, please join us at our social events throughout the three-day symposium to network, mingle, and relax with fellow scientists and exhibitors over food and beverages.

Please note that this year marks the introduction of our completely paperless Final Program. Be sure to download the official EAS 2026 app for real-time updates and scheduling information throughout the symposium. If you need assistance with the app, our team is happy to help at the registration or help desks.

On behalf of the entire EAS Board, thank you for attending EAS 2026. We also extend our deepest gratitude to our dedicated volunteers, committee chairs, exhibitors, sponsors, and the wonderful staff at the Crowne Plaza whose tireless efforts made this event possible.

Sincerely,

Jason Shen
President, 2026 Eastern Analytical Symposium





2026 EAS FINAL PROGRAM

Published by the Eastern Analytical Symposium & Exposition, Inc.

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Send e-mail to: **askEAS@EAS.org**

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

Volume #36, Number 4, Whole Number 134
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Table of Contents

Click on a topic to link to that page

Message from the EAS President 3
Table of Contents 4
General Information & Schedule..... 5
History of EAS 6
Keynote Lecture 7
Mobile App 7
Conferences-in-Miniature 8
Technical Program 9-24
Award Recipients 25-26
Student Research Award 27
Short Course Schedule 28
Souvenir!..... 28
Workshops 29
Student Seminars 30
Speed Mentoring & Employment... 30
Exhibiting Companies 31
Expo Floor Map 32
Expo Events & Demos 33-34
Social Times in the Expo Area 35
Sponsors 36-37
Exhibitor Descriptions 38-42
Expo Bingo 42
Author Index 43-44
Map of the CPCC 45
2027 Save the Date ..... BC

EAS General Information & Schedule

Oral Technical Sessions

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

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

Special Lectures

Monday
4:15pm Keynote Lecture
Dr. Christopher Kinsinger, National Institutes of Health

Tuesday
1:15pm EAS Award Session

Electronic Poster Sessions

Posters are displayed only on the designated day of the poster session.
Monday & Tuesday Session 1
Displayed: 10:00am-12:25pm
Authors Available: 11:30am-12:25pm
Monday & Tuesday Session 2
Displayed: 12:30pm-3:00pm
Authors Available: 12:30pm-1:25pm
Wednesday
Displayed: 10:00am-1:00pm
Authors Available: 11:30pm-12:25pm

Professional Development Workshops

Monday, Tuesday & Wednesday
12:00pm to 1:00pm

Attendee Registration Hours

Sunday
Short Course: 7:30am - 9:00am
All attendees: 3:00pm - 5:00pm
Monday & Tuesday
7:30am - 5:30pm
Wednesday
7:30am -1:00pm

Exposition Schedule

Monday
Hours: 10:00am to 6:30pm
There will be Keynote Reception in the Expo Rooms from 5:15pm-6:30pm.
Tuesday
Hours: 10:00am to 5:30pm
There will be a special Mixer in the Expo Rooms from 4:30pm-5:30pm.
Wednesday
Hours: 10:00am to 1:00pm

Shuttle from off-site Parking

Monday & Tuesday only
7:30am – 6:00pm

Exhibitor Registration Desk Hours

Monday
8:30am - 5:30pm
Tuesday
8:30am - 4:30pm
Wednesday
8:30am - 8:30pm

Camera & Cell Phone Use

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

Badges

Your badge is your admission to many of the activities at the 2026 EAS. Please make sure that you remember to bring it with you when you come to the meeting. There is a $25 fee for the processing of lost or misplaced badges. Badges are non-transferable.

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:

SUSTAINER LEVEL ($2,500 & higher)
The Pennington Family Gift Foundation

SUPPORT LEVEL ($1,000 & higher)
Corporate Gift: **Mike Hicks, Merck & Co., Inc.**
Corporate Gift: **Yongchao Su, Merck & Co., Inc.**

ADVOCATE LEVEL ($500 & higher) Corporate Gift: **Ray McClain, Merck & Co., Inc.**

FRIEND LEVEL ($100 & higher)

As the end of the 2026-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!

History of The Eastern Analytical Symposium (and Exhibition)

It is one of those clear November days when the briskness reminds one that the world is getting ready for its hibernation as squirrels skitter, their mouths filled with nuts to be buried before the first snow. And all these sensations remind me that the time of the Eastern Analytical Symposium is at hand.

It all started back in the late 1950s. The Pittsburgh Conference had brought analytical science discussions to the fore in their first meeting (1950) in the springtime. In 1959, a group of sponsoring organizations mostly in the East and New England decided to have a similar meeting in the fall of the year. The initial meeting was held in New York City, with about 1200 attendees including 38 exhibitors, at the Hotel New Yorker for analysts - the Eastern Analytical Symposium. The meeting was a success, and in ensuing years the meeting moved among venues in New York City, growing and developing into a major event in the analytical chemistry community. By 1968, the Symposium included exhibitor workshops. By 1973, awards like the Benedetti-Pichler Award, the Ernst Abbe Award, and the Gold Medal of the New York Section of the SAS expanded the impact of the Symposium.

In the early 1970s, discussion among analytical groups, including some sponsors of EAS, proposed to set up the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) and have its national meetings (often in Philadelphia) at a time similar to that of EAS. For a couple of years, the EAS was suspended and incorporated into FACSS. In 1977, however, EAS offered its symposium separately back in New York City. In the ensuing years, there was a tension between the two organizations. Ultimately the EAS was scheduled in mid-November, and after a while FACSS (now SciX) began moving its venue around the country. In recent decades, EAS has made its home at the Garden State Convention Center, and – since 2017 – at the Crowne Plaza Princeton Conference Center.

In 1986, the EAS introduced the first of the EAS Awards for Achievements in various fields, with the first EAS Award for Outstanding Achievements in the Fields of Analytical Chemistry to George Morrison. Over the next decades, awards for success in Separation Science, Magnetic Resonance, Vibrational Spectroscopy, Mass Spectrometry, and Chemometrics have been authorized with support from corporate sponsors. The awards have recognized contributions from many distinguished scientists, including multiple persons who also won Nobel Prizes.

As the Symposium expanded in the 1980s and 1990s, a major development was the focus on education of students at all levels. Special seminars were created in each program not just for students, but also for teachers at the high school and elementary levels.

The Eastern Analytical Symposium and the associated Exhibition continues to bring analytical chemistry to us during the fall of the year. As sure as the leaves turn red and yellow, as sure as days become shorter, each year (including this one), it is time find out what new analytical chemistry has happened.

Cecil Dybowski
Member since 1986



KEYNOTE LECTURE

We are excited to announce our Keynote Lecture

Monday, November 16; 4:15pm



AI-Ready Data and Analytical Methods for Health Research
Dr. Christopher Kinsinger, National Institutes of Health

A complimentary reception will be held immediately after the lecture in the Exposition Rooms



DOWNLOAD THE OFFICIAL EAS APP FOR FREE

Scan the QR code to be directed to the correct app for your device.

Or Search "Eastern Analytical Symposium" in your App Store

2026 EAS CONFERENCES-IN-MINIATURE

EAS AWARD SESSION

Technical Session (11/17; PM)

- EAS Award for Outstanding Achievements in the Fields of Analytical Chemistry, Honoring **Richard van Breemen**, Oregon State University
- EAS Award for Outstanding Achievements in Separation Science, Honoring **David Bell**, Phiex Technologies
- EAS Award for Outstanding Achievements in Mass Spectrometry, Honoring **Joshua Coon**, University of Wisconsin-Madison
- EAS Award for Outstanding Achievements in Magnetic Resonance, Honoring **Robert Schurko**, Post-Humous
- EAS Award for Outstanding Achievements in Vibrational Spectroscopy, Honoring **Brooke Kammrath**, University of New Haven
- EAS Young Investigator Award, Honoring **Xin Yan**, Texas A&M University

ANNIVERSARY

Technical Session

- EAS's 65th Anniversary Session (11/16; PM)

AUTOMATION / MACHINE LEARNING

Technical Sessions

- Overcoming Challenges in Machine Learning Near the Limit of Determination (11/16; PM)
- Integrating Automation into Chemical Analysis (11/18; AM)
- Analytical Techniques for Sensing, Metrology, and Materials Characterization (11/18; AM)
- Data-Driven Analytical Chemistry: From Chemometrics to Artificial Intelligence (11/18; PM)

CHROMATOGRAPHY

Technical Sessions

- Celebrating 60 years of the CFDV: The Founding Fathers (11/16; AM)
- Explore the Application of Novel Techniques to Enhance Pharmaceutical Research in Drug Discovery and Development (11/16; AM)
- Advances in Liquid Chromatography: Column Technology, Method Development, and Biopharmaceutical Analysis (11/16; PM)
- Modern Separation Strategies for Chemical Residue Analysis in Complex Matrices (11/16; AM)
- Expanding Supercritical Fluids Extraction and Chromatographic Applications Beyond a Firm Foothold in Pharmaceuticals (11/17; AM)
- Gas Chromatography for Sensitive and Reliable Chemical Analysis (11/17; AM)
- Advances in Separation Science Instrumentation (11/16; PM)
- Chromatographic Solutions for Complex Analytical Challenges (11/18; PM)

CONSERVATION SCIENCE

Technical Session

- Instrumental Analysis in Cultural Heritage (11/18; AM)

ENVIRONMENTAL ANALYSIS

Technical Sessions

- Analysis of PFAS in the Environment and Various Everyday Consumer Products (11/16; PM)
- Nanoplastics and Endocrine Disruptors in the Environment and their Health Implications (11/18; AM)
- Analysis of Cannabis Products (11/18; PM)
- Green Chemistry: Sustainable and Modern Solutions to Applied Analytical Science (11/18; PM)

FORENSIC ANALYSIS

Technical Sessions

- Research from our Emerging Forensic Scientists (11/16; PM)
- Green Innovations in Forensic Chemistry: Sample Preparation & Field and Lab Portable Spectroscopy & Chromatography (11/17; AM)
- Chromatographic and Spectroscopic Methods for Forensic Analysis (11/18 AM)

MAGNETIC RESONANCE

Technical Sessions

- Advances in Solid-State NMR Characterization of Pharmaceuticals (11/18; AM)
- Advances in Benchtop NMR for Materials Characterization and Process Monitoring (11/18; PM)

MASS SPECTROMETRY

Technical Sessions

- Mass Spectrometry Methods and Applications in Chemical and Life Sciences (11/16; AM)
- Mass Spectrometry-Based Proteomics & Metabolomics: Biomarker Discovery and Biological Insights (11/17; AM)

PHARMACEUTICAL ANALYSIS

Technical Sessions

- Quality by Design: Building Robust and Transferable LC Methods (11/16; AM)
- In-Silico Intelligence for Analytical Characterization of Pharmaceutical Product (11/16; AM)
- Biophysical Analysis in Biopharmaceutical Product Development (11/17; AM)
- Integrating Artificial Intelligence and Real-World Data into Pharmaceutical Development and Quality (11/17; AM)
- Pharmaceutical and Biopharmaceutical Techniques and Application (11/18; AM)
- Extractables & Leachables in Pharmaceutical Development (11/18; AM)
- Integrating Modeling and Experimentation for High Concentration Biologic Drug Products (11/18; PM)
- Advances in Analytical Development of Antibody Drug Conjugates (11/18; PM)

POSTER SESSIONS

E-Posters on all areas of analytical science are on display each day on the Bridge to the Hotel from 11:30am – 12:25am and on Monday and Tuesday from 12:30pm - 1:25pm

SPECTROSCOPY

Technical Sessions

- Vibrational Spectroscopy in Forensic Science (11/16; AM)
- Applications of Vibrational Spectroscopy in Industry (11/16; PM)
- Imaging and Spectroscopic Analysis of Particles (11/16; AM)
- Advances in Analytical Spectroscopy of Chiral Molecules and Molecular Assembles (11/16; PM)
- **New York/New Jersey Section of the Society for Applied Spectroscopy Gold Medal Award**, Honoring Richard Crocombe, Crocombe Spectroscopic Consulting (11/17; AM)
- AI in Spectroscopy (11/18; AM)
- Spectroscopy: New Techniques and Applications (11/18; PM)

2026 Final Technical Oral Program

MONDAY MORNING, NOVEMBER 16

Celebrating 60 years of the CFDV: The Founding Fathers ***Sponsored by Chromatography Forum of DE Valley*** **Chair: Mary Ellen McNally, FMC Corporation**		
Room: Nash; 2nd Floor		
9:00am	1	*Life of Joseph Touchstone, First President of the CFDV*, William Champion, SLED
9:30am	2	*Particles, Teaching, and a Little Detour to FFF. The Extraordinary Career of Jack Kirkland*, Joseph Glajch, JLG AP Consulting LLC
10:00am		Break
10:30am	3	*Founding Fathers of the Delaware Valley Chromatography Forum: Walt Supina, Co-Founder of Supelco*, Mary Ellen McNally, FMC Corporation
11:00am	4	*Groovy Grob - Teacher, Mentor, Friend; Celebrating the Career of Bob Grob*, Tom Brettell, Cedar Crest College

Explore the Application of Novel Techniques to Enhance Pharmaceutical Research in Drug Discovery and Development ***Sponsored by the Chinese American Chromatography Association*** **Chair: Yi He, John Jay College of Criminal Justice**		
Room: Einstein; 1st Floor		
9:00am	5	*LC-MS Versus Ligand Binding Assays: Scientific Considerations for Quantification of Challenging Protein Biomarkers*, Kai Wang, GSK
9:30am	5	*Fit-for-Purpose Non-Regulated Bioanalysis Workflow for Targeted Protein Degradation Programs*, Qin Ji, Abbvie
10:00am		Break
10:30am	7	*From an Overlooked Innovation to a High Value Technology: The History and Revival of Slalom Chromatography to Support DNA/RNA Separation in Cell and Gene Therapy*, Fabrice Gritti, Kevin Wyndham, Jamuna Vaishnav, Bala Addepalli, Matthew Lauber, Waters Corporation
11:00am	8	*Accelerating In Vitro Permeability Assays: From High-Throughput Biology to High-Throughput Analytic*, Wenying Jian, Johnson & Johnson

In-Silico Intelligence for Analytical Characterization of Pharmaceutical Product **Chair: Pankaj Aggarwal, Merck & Co., Inc.**		
Room: Burr; 2nd Floor		
9:00am	9	*From Peaks to Predictions: High-Throughput Mass Spec & PTM Risk Modeling for Biologics,* Richard Huang, J&J
9:30am	10	*Accelerating Enzyme Assay Development Using In-Silico Bayesian Optimization*, Rose Yi, Ophelia Ukaegbu, Jonathan Fine, Christopher Wang, Arthur Arcinas, Holst Halsey, Sasidhar Nirudodhi, Erik Regalado, Pankaj Aggarwal, Merck & Co., Inc.,
10:00am		Break
10:30am	11	*In-Line Raman Spectroscopy for Low-Dose Content Uniformity Monitoring*, Vladimir Villanueva-Lopez, David Wilsdon, Pfizer
11:00am	12	*In Silico and Modelling Approaches for Understanding Synthetic Molecule Pharmaceutical Stability,* Jessica Hoskins, AbbVie

Imaging and Spectroscopic Analysis of Particles **Chair: Dan Fu, University of Washington**		
Room: Witherspoon C; 2nd Floor		
9:00am	13	*Detecting, Identifying and Counting Sub-Visible Particles in Heterogeneous Mixtures with Total Holographic Characterization*, Laura Philips, Juliana Lumer, Valentina Flores-Montes, David Ruffner, Spheryx, Inc.
9:30am	14	*Characterizing Biopharmaceutical Particles in a High-Throughput Unlabeled Fashion with AI-Based Image Analysis*, Christopher Calderon, University of Colorado-Boulder
10:00am		Break
10:30am	15	*Morphological and Chemical Characterization of Subvisible Particles in Biopharmaceutical Formulations*, Dan Fu, University of Washington
11:00am	16	*Particle Reference Material Development and Characterization*, Srivalli Telikepalli, National Institute of Standards and Technology

2026 Final Technical Oral Program

Monday Morning Continued

Vibrational Spectroscopy in Forensic Science **Chair: Brooke Kammrath, University of New Haven**		
Room: 110; 1st Floor		
9:00am	17	*Vibrational Spectroscopy for Questioned Document Analysis*, Marisia Fikiet, University of New Haven
9:30am	18	*A Universal Approach to the Forensic Identification of Biological Stains Based on Raman Spectroscopy: Recent Advancements Toward Commercialization*, Igor Lednev, University at Albany- SUNY
10:00am		Break
10:30am	19	*Rapid Authenticity Screening of Suspect Pharmaceuticals Using Portable NIR Technology Coupled with Rapid Cloud-Based Data Analysis*, Lyndsay Kissell, Megan Sterling, Adam Lanzarotta, United States Food and Drug Administration, Hervé Rais, Olivier Delémont, Pierre Esseiva, University of Lausanne
11:00am	20	*Seeing Over the Peaks: Contributions of Microscopy to Vibrational Spectroscopy*, Christopher Palenik, Microtrace LLC,

Modern Separation Strategies for Chemical Residue Analysis in Complex Matrices **Chair: Emanuela Gionfriddo, University of Buffalo-SUNY**		
Room: 112; 1st Floor		
9:00am	21	*SFC of Short Chain PFAS*, Luis Colón, Karla Rios-Bonilla, Dulan H. Edirisinghe, Damalka Balasuriya, Raúl Díaz-Santiago, University of Buffalo-SUNY
9:30am	22	*Using Comprehensive Separations to Inform Scent Detection Canine Training for Detecting American Foulbrood Disease in Honeybees*, Katelynn Perrault Uptmor, Breanna E. Christensen, William & Mary, Meghan O. Milbrath, Peter D. Fowler, Michigan State University
10:00am		Break
10:30am	23	*Revisiting Peak Capacity Production at Ultra-Short Analysis Time as a Lever to Improve the Speed and Peak Capacity of 2D-LC Separations*, Dwight Stoll, John Biebighauser, Callum Harmes, Tina Dahlseid, Gustavus Adolphus College, Konstantin Shoykhet, Agilent Technologies
11:00am	24	*Multidimensional Chromatography for Chemical Analysis – from Small Molecules to Synthetic Polymers,* Peilin Yang, Kingsley (Hengyu) Lin, Dow Chemical

Mass Spectrometry Methods and Applications in Chemical and Life Sciences **Chair: Srinivas Chakravartula, Rutgers University**		
Room: Stockton C; 1st Floor		
9:00am	25	*Understanding Neuronal Excitability using Mass Spectrometry Imaging of SCN2A-deficient Organoid and Assembloid Systems*, Alyssa Moore, Xiaoling Chen, Yang Yang, Julia Laskin, Purdue University
9:20am	26	*Investigation of Radical-Driven Peptide Fragmentation in the Solution-Cathode Glow Discharge Ion Source for Mass Spectrometry*, Jared Viggers, Jacob Shelley, Rensselaer Polytechnic Institute, Josefin Hufgard, Bundesanstalt für Materialforschung und -prüfung
9:40am	27	*Superhydrophilic Zwitterionic Self Assembled Monolayers for Surface Acoustic Wave Nebulization Mass Spectrometry (SAWN-MS)*, Kaleb Sharrer, Mojgan Jafaripirouz, Jacob Rowe, Ryan Toomey, Theresa Evans-Nguyen, Venkat Bhethanabotla, University of South Florida
10:00am		Break
10:30am	28	Quantification of Argireline in Commercial Skin Aging Serums by MALDI MS^2 Approach Using Digital Ion Trap, Muhammad Ali, Emmanuel Chang, Kevin Mark, York College of The City University of New York
10:50am	29	Systemic Overview and Validation of Fibrinogen Alpha as a Biomarker for Early-Stage Breast Cancer Analysis, Pathea Bruno, Sarah Abbott, Shaelee Torres, Costel Darie, Clarkson University

Quality by Design: Building Robust and Transferable LC Methods **Chair: Lasangi Dhanapala, Alexion Pharmaceuticals**		
Room: Stockton B; 1st Floor		
9:00am	30	*Why Establishing a Robust Method Operable Design Region (MODR) is Superior to a Single-Method Solution*, Richard Verseput, S-Matrix Corporation
9:20am	31	*Addressing Method Transfer and Robustness Challenges Using Design Space Modeling*, Arnold Zoeldhegyi, Imre Molnar, Molnar-Institute for Applied Chromatography, Krisztian Horvath, Pannon University
9:40am	32	*Optimizing LC Method Development Through Intelligent Column Selection and Implementation of a Structured Screening Protocol*, Kenneth Berthelette, Waters Corporation
10:00am		Break
10:30am	33	*Silencing RNAs, Guide RNAs, Messenger RNAs and Beyond. A Guide to Tackling Ion Pair/Reversed Phase LCMS Method Development*, Joshua McBee, Peter Pellegrinelli, Barry Boyes, Advanced Materials Technology
10:50am	34	*Improved HPLC Method Development Using Wide pH Range*, Conner McHale, Advanced Materials Technology
11:10am	35	*Are Your LC Method and Associated Sample Preparation Method Ready for Transfer?*, Richard Verseput, S-Matrix Corporation

2026 Technical Poster Program

Monday, November 16: E-Poster Morning Session; 11:30am – 12:25pm	
Paper #	***Location: Bridge to the Hotel***
36	*Fabric Differentiation Using Reflectance Spectroscopy and Multivariate Statistical Analysis*, Fernanda Delgado Cornelio, Katelyn Blair, Levi Bielewicz, Jocelyn Alcantara Garcia, Karl Booksh, University of Delaware
37	*Multivariate Authentication of Lavender, Peppermint, and Helichrysum Essential Oils Using Chemometrically Enhanced Spider Plot Analysis*, Prabodh Satyal, APRC
38	*Data Dense Dissolution Testing Based on Low Temperatures,* Ishai Nir, Jeff Seely, Gary Dromgoole, Distek, Inc.
39	*ICP-OES Analysis of Copper Recovered from Li-Ion Batteries for Foil Manufacturing*, Ana Garcia Gonzalez, Agilent Technologies
40	*USP 467 on PerkinElmer Clarus® Nova GC HS FID,* Thomas Mancuso, Miles Snow, PerkinElmerAES
41	*Effect of Column Dimensions and Pressure Distribution on Low-Pressure Gas Chromatography Performance*, Nazanin Keyhani, Nicholas Snow, Seton Hall University
42	*Enhanced Risk Assessment for a Traditional LC Separation Method Using ICH Q14 Regulatory Principles and a Simplified HPLC System*, Catharine E. Layton, Amy Woodsmall, Paul D. Rainville, Waters Corporation
43	*Mitigating the Effects of Organic Solvents in Sample Diluents for Ion Chromatography: A Comprehensive Study and Guidelines for Optimization*, Mingwan Leng, Tianyu Yuan, Frank Bernardoni, Heather Wang, Erik Regalado, MRL, Christopher Pohl, Cap Chromatography LLC
44	*Decoding ADC Spectra for DAR Measurements: Deconvolution of Drug-Linker UV/Vis Absorbance Spectra for ADC Characterization,* Kevin Lance, Tine De Ryck, Tine Duthoit, Tom Boonefaes, Unchained Labs
45	*Characterization and Optimization of the Electrochemiluminescent Response of a Bipolar Electrode-Based Sensor*, Kieran Cross, Kira Rahn, Middlebury College
46	*Photostability Assessment for Low Melting Point APIs: Decoupling Thermal and Photochemical Degradation Under ICH Q1B Conditions*, Matthew Gunsch, Eryn Nelson, Ying Wang, Weidong Tong, Merck & Co, Inc.
47	*Integrated Extraction and Cleanup for Rapid Multi-Class Analysis of Food Contaminants in Honey*, Alicia Stell, Brianna Warren, Maria Swasy, CEM Corporation
48	*Charge-Transfer and SERS Coupling on TiO2 Nanoparticles*, Syed Islam, ECSU

Monday, November 16: E-Poster Afternoon Session; 12:30pm – 1:25pm	
Paper #	***Location: Bridge to the Hotel***
49	*Evaluation of Plasma and Serum Controls for Peptidomic Serum Analysis for Breast Cancer Biomarker Discovery*, Sarah Abbott, Clarkson University
50	*Profiling Quorum Sensing Mutants of Pseudomonas Aeruginosa Using GC×GC-TOFMS,* Nicolas Zimmermann, Isabelle Taylor, Katelynn A. Perrault Uptmor, William & Mary
51	*Design-of-Experiment-Enabled Exploration of Cu_2O/Cu Structures for Glucose Electrochemical Detection,* Thomas Dick, Minh Dang, Rachel Davidson, University of Delaware
52	*Influences of Iron and pH on Phenolic Antioxidant Reactivity with Free Chlorine in Plastic Pipes*, Julianne Chan, Carsten Prasse, Howard Fairbrother, Johns Hopkins University
53	*Multistage Air Sampling and Complementary LC–MS/MS and GC–MS/MS for Phase-Resolved Atmospheric PFAS Analysis,* David Bell, ASKkprime LLC, Kenichi Suzuki, Hiroshi Hayashida, GI Sciences
54	*Extending Amino Acid Analysis from Essential Amino Acids to Complex Commercial Samples*, John Ferraro, Weston Umstead, Daicel Chiral Technologies
55	*Performance of Commercial Portable Raman Spectrometers for Body Fluid Identification*, Emily Tattrie, Marisia Fikiet, Claire Glynn, Virginia Maxwell, Brooke Kammrath, University of New Haven, Mohamed Amin, Igor Lednev, University at Albany, Pauline Leary, NOBLE, Richard Crocombe, Crocombe Spectroscopic Consulting
56	*Coupling SEC-MALS-RI with Pyro-GCMS to Analyze Polymer Blends,* Morgan Hesser, Amandaa Brewer, Catherine Smith, Arkema
57	*Developing a Headspace GC/MS Method for Quantifying Volatile Trace Residue in Complex Matrices*, Jie Li, Jasmine Yuan, Ying Jiang, Yijun Lu, Johnson & Johnson
58	*Determination of Fatty Acid Composition in Polysorbate 80 Using High-Performance Liquid Chromatography (HPLC) with Charged Aerosol Detection,* Margaret Maziarz, Stephanie Harden, Paul Rainville, Waters Corporation
59	*Advanced Ion-Exchange Approaches for AOC Characterization Using SAX and Tandem SCX–SAX*, Yinan Zhang, Linting Li, Xuyang Zhang, Ke Yang, Sepax Technologies, Inc.
60	*MALDI-MS Peptidomics of Human Breast Milk Identifies Tumor-Associated and Contralateral Molecular Signatures in Breast Cancer,* Dhwani Sardana, Aneeta Arshad, Batuhan Uzunoglu, Alina Petre, Costel Darie, Clarkson University, Kathleen Arcaro, Brian Pentecost, University of Massachusetts-Amherst
61	*Biophysical Analysis of the Mechanisms Underlying the Extended Half-Life of the GLP-1 Peptide Semaglutide*, Rickey Su, Lev Oykhman, Ying Wang, University of North Carolina-Wilmington
62	*ProjDIA: Improving Peptide Identification and Quantification in Direct-Infusion DIAProteomics*, Herbi Yuliantoro, Peng Li, Lehigh University
63	*MALDI MS-Based Peptidome Analysis from Human Breast Milk Reveals Distinct Molecular Profiles Associated with Cancer*, Celeste Darie, Aneeta Arshad, Natalie Waterman, Brian Pentecost, Costel Darie, Clarkson University, Kathleen Arcaro, University of Massachusetts-Amherst

2026 Final Technical Oral Program

MONDAY AFTERNOON, NOVEMBER 16

EAS's 65th Anniversary Session ***Sponsored by Monroe Investments*** **Chair: Sue Evans Norris**		
Room: Einstein; 1st Floor		
1:30pm	64	*The Wonders of Water Droplets in Air and Air Bubbles in Water*, Jinheng Xu, Richard Zare, Stanford University
2:00pm	65	*65 Years of Mass Spectrometry*, Graham Cooks, Purdue University
2:30pm		Break
3:00pm	66	*Tandem Mass Spectrometry of the Deamination of Asparagine: A Key Step in Aging?*, Peter Armentrout, University of Utah
3:30pm	67	*65 Years of Separation Science: The Founders and Builders of the Chromatography We Use in the Laboratory Today*, Mary Ellen McNally, FMC Corporation

Advances in Separation Science Instrumentation ***Sponsored by Chromatography Forum of DE Valley*** **Chair: James Grinias, Rowan University**		
Room: Nash; 2nd Floor		
1:30pm	68	*Integrating Taylor Dispersion Analysis with Capillary Electrophoresis for Separations with Structural Insights*, Christopher Baker, New Mexico State University
2:00pm	69	*Crossing the Cutoff: Extending LC Detection into the VUV*, Dale Harrison, Anthony Hayes, Alex Hodgson, Annika Dombrowski, Garrett Hellinghausen, VUV Analytics
2:30pm		Break
3:00pm	70	*Coupling Separation Modules with Microwave Rotational Resonance Spectroscopy: Challenges and Prospects*, M. Farooq Wahab, University of Texas-Arlington
3:30pm	71	*Issues with Explosives Detection*, Jimmie Oxley, University of Rhode Island

Research from our Emerging Forensic Scientists ***Sponsored by New Jersey Association of Forensic Scientists*** **Chair: Monica Joshi, West Chester University of PA**		
Room: 110; 1st Floor		
1:30pm	72	*Emerging Analytical Approaches for Estimating Postmortem Interval*, Marlene Muhammad, Sara C. Zapico, New Jersey Institute of Technology
2:00pm	73	*Bayesian Network Modeling for Assessment of Drug-related Deaths: A Forensic Toxicology Approach*, Kenny K. Khatri, Priscilla T. Merlino, Michelle G. Carlin, Rutgers University, Anders L. Madsen, Aalborg University, Alan M. Langford, Northumbria University
2:30pm		Break
3:00pm	74	*Quantitative LC-MS/MS Analysis of Psilocybin and Psilocin in Microdosing Capsules,* Raymond Smikle, Heather Harris, Dominic Bierwisch, Samuel Krug, Arcadia University
3:30pm	75	*Fluorescence Microscopy in a Sequential Analytical Scheme for the Discrimination of Black Electrical Tape*, Grace Patzer, Larry Quarino, Cedar Crest College

Overcoming Challenges in Machine Learning Near the Limit of Determination **Chair: Barry Lavine, Oklahoma State University**		
Room: Burr; 2nd Floor		
1:30pm	76	*Experimental and Digitally Blended Infrared Spectral Data for Detection of Calibrated and Uncalibrated Adulterants in Edible Oils Near the Limit of Determination*, Elizabeth Donkor, Isio Sota-Uba, Barry Lavine, Oklahoma State University, Thomas Hancewicz, 4TMH Associates, Karl Booksh, University of Delaware
2:00pm	77	*Excitation-Emission Matrix Fluorescence for Monitoring Progress in Bioreactors*, Karl Booksh, Conner Balickie, Fernanda Delgado, University of Delaware, Joseph Smith, Merck & Co., Inc.
2:30pm		Break
3:00pm	78	*Integration of Spectral Libraries with Image Maps Using Modified Alternating Least Squares to Develop Soft Machine Learning Models*, Barry Lavine, Haoran Zhong, Elizabeth Donkor, Oklahoma State University, Thomas Hancewicz, 4TMH Associates
3:30pm	79	*Pigment Clustering and Classification of Reflectance Hyperspectral Datasets for Roman Egyptian Mummy Portraits using a Gaussian Mixture Model-Based Approach*, Roxanne Radpour, Helder Carneiro, Caelin Celani, Karl Booksh, University of Delaware

2026 Final Technical Oral Program

Monday Afternoon Continued

Advances in Analytical Spectroscopy of Chiral Molecules and Molecular Assembles **Chair: Garth Simpson, Purdue University**		
Room: Witherspoon C; 2nd Floor		
1:30pm	80	*New Spectroscopic Signatures of Molecular Chirality in Spectroscopy and Microscopy of Molecularly Ordered Assemblies*, Garth Simpson, Purdue University
2:00pm	81	*Chiral-Selective SFG Spectroscopy Probes Biomolecular First Hydration-Shell Structure*, Elsa Yan, Yale University
2:30pm		Break
3:00pm	82	*Anomalous Circular Birefringence in Mixed Crystals*, Bart Kahr, New York University
3:30pm	83	*Probing Biopolymer Assemblies with Polarization-Resolved Second Harmonic Generation Microscopy*, Danielle Tokarz, MacAulay Harvey, Richard Cisek, Saint Mary's University

Applications of Vibrational Spectroscopy in Industry **Chair: Richard Crocombe, Crocombe Spectroscopic Consulting**		
Room: Stockton B; 1st Floor		
1:30pm	84	*Developing an AI Based FT-IR Spectral Analytic Platform for Industrial R&I Analytical Applications*, Peter Larkin, JD Cho, Francis Bruey, Syensqo
2:00pm	85	*Advancing Biopharmaceutical Analysis with Raman Spectroscopy: From High-Throughput Screening to Process Monitoring*, Fiona Xi Xu, HORIBA
2:30pm		Break
3:00pm	86	*Mid-IR, Near-IR, or Raman Spectroscopy, Which One Should I use for My Problem?*, Shawn (Xiaoyun) Chen, Dow Chemical Company
3:30pm	87	*Tunable Diode Laser Absorption Spectroscopy: From Fundamental Spectroscopy to Industrial Process Analytics*, Mark Druy, Galvanic Applied Sciences

Analysis of PFAS in the Environment and Various Everyday Consumer Products **Chair: Kyle Dunleavy, PerkinElmer**		
Room: 112; 1st Floor		
1:30pm	88	*Advancing Ultra-Trace Chemical Analysis through Microextraction and Laminar Flow Tandem Mass Spectrometry*, Emanuela Gionfriddo, University of Buffalo
2:00pm	89	*Solid-State NMR and DNP Investigation of PFAS Binding in Zr-Based MOFs*, Yifan Quan, Kunyu Wang, Duhan Zhang, Yaojun Zeng, Ashley Beers, Shu Yang, University of Pennsylvania, Jochem Struppe, Daniel Banks, James Kempf, Bruker Biospin
2:30pm		Break
3:00pm	90	*PFAS in Water: A Multi-Decade Retrospective Study*, Jacob Jalali, PerkinElmer
3:30pm	91	*Detecting the Presence of PFAS in Chicken Eggs: Assessing PFAS Contamination in Complex Matrices Using UHPLC-MS/MS Technology,* Marisa Vatteroni, Austin Pelletier, Akshay Jayachandran, Anthony Provatas, University of Connecticut

Advances in Liquid Chromatography **Chair: Chuping Luo, EliteChrom Solutions**		
Room: Stockton C; 1st Floor		
1:30pm	92	*Advantages of Superficially Porous Particle Columns for HPLC and LC-MS*, Stephanie Schuster, Joshua McBee, Conner McHale, Peter Pellegrinelli, Advanced Materials Technology, Inc.
1:50pm	93	*Monodisperse vs. Polydisperse Packing Materials in Liquid Chromatography: Implications for Performance and Practice*, Fabrice Gritti, Waters Corporation
2:10pm	94	*Hardware-Driven Interactions in Oligonucleotide HPLC: The Role of Ion-Pairing and Oligonucleotide Chemistry*, Peter Pellegrinelli, Stephanie Schuster, Barry Boyes, AMT
2:30pm		Break
3:00pm	95	*Fast Mobile Phase pH Screen: Application in Pharmaceutical Analytical LC Method Development*, Lynn Krushinski, Yiyang Zhou, Ashley Liu, Kelci Schilly, Briston Myers Squibb
3:20pm	96	*Analytical Resolution of Bispecific Antibody Complexity: A Comprehensive Chromatographic Strategy*, Yinan Zhang, Linting Li, Xuyang Zhang, Ke Yang, Sepax Technologies
3:40pm	97	*Comprehensive Ion-Pair Reversed-Phase Workflow for Accelerated Oligonucleotide Separation in Pharmaceutical Development*, Mohamed Hemida, Erik L. Regalado, Rodell Barrientos, Emmanuel Appiah-Amponsah, Merck & Co., Inc., Davy Guillarme, Jonathan Maurer, University of Geneva

KEYNOTE LECTURE

Monday, November 16, 4:15pm; Amphitheatre; 1st Floor

Paper #98; The Case for Accuracy and Quality in the Age of Superhuman Measurement and Intelligence: Lessons Learned from the NIH Common Fund

Dr. Christopher Kinsinger, National Institutes of Health

TUESDAY MORNING, NOVEMBER 17

New York/New Jersey Section of the Society of Applied Spectroscopy Gold Medal Award **Honoring Richard Crocombe, Crocombe Spectroscopic Consulting** **Chairs: Deborah Peru, DP Spectroscopy and Training, LLC, Gabrielle Davis, Camfil USA Inc.**		
Room: Amphitheatre; 1st Floor		
9:00am	99	*Portable Spectroscopy – Quo Vadis?,* Richard Crocombe, Crocombe Spectroscopic Consulting
9:30am	100	*Community Engagement with Portable Spectroscopy*, Mary Kate Donais, Saint Anselm College
10:00am		Break
10:30am	101	*A Portable Revolution: Over-the-Horizon Spectroscopy*, Pauline Leary, NOBLE, Inc.
11:00am	102	*Networked Hyperspectral Raman Spectroscopy for Real-Time Detection of Drugs and Pharmaceuticals*, Ari Forman, SCATR, Inc.

Integrating Artificial Intelligence and Real-World Data into Pharmaceutical Development and Quality ***A session in recognition of Kim Huynh-Ba for her extraordinary contribution to EAS 2026*** **Chairs: Kim Huynh-Ba, Pharmalytik, Sudhakar Parthasarathy, International Food & Flavors**		
Room: Burr; 2nd Floor		
9:00am	103	*Data Governance in AI: From Chaos to Control*, Divya Reddy Bommana, Alkermes
9:30am	104	*Data Analytics in Batch Release: Leveraging AI for Faster and Smarter Decision Making*, Nikolai Makaranka, Daikon
10:00am		Break
10:30am	105	*Digital Twin—Enabling the Future of Development and Manufacturing of Pharmaceutical and Biopharmaceutical Products with Standardization and Consistency*, Desmond Hunt, United States Pharmacopeia
11:00am	106	*Audit Excellence: Leveraging AI to Transform GxP Audit Reporting while Maintaining Expert in the Loop*, Srilatha Endabetla, Bhaskar Aryasomayajula, Bristol Myers Squibb

Biophysical Analysis in Biopharmaceutical Product Development **Chair: Ying Wang, University of North Carolina-Wilmington**		
Room: Einstein; 1st Floor		
9:00am	107	*High-Throughput Small-Angle X-Ray Scattering for Biologics Developability Screening*, Pin-Kuang Lai, Stevens Institute of Technology
9:30am	108	*Enhanced Rational Protein Engineering to Reduce Viscosity in High-Concentration IgG1 Antibody Solutions*, Tyler Lefevre, Jenna Caldwell, Austin Gallegos, Qun Du, Erin Williams, Gilad Kaplan, Reza Esfandiary, AstraZeneca
10:00am		Break
10:30am	109	*Biophysical Characterization as a Decision-Enabling Tool in Biologics Development*, Ivan Budyak, Eli Lilly and Company
11:00am	110	*Comprehensive Biophysical Characterization of Targeted Lipid Nanoparticles (tLNP) to Access and Enhance Physical Stability*, Aaron Liao, Parvez Alam, Ronan Baynes, Shipra Malik, Christopher Uchechukwu, Dave Chu, AbbVie

Expanding Supercritical Fluids Extraction and Chromatographic Applications Beyond a Firm Foothold in Pharmaceuticals **Chair: Nick Mitchell, Sohve LLC**		
Room: 112; 1st Floor		
9:00am	111	*SFC Separation and Purification of Hemp Extracts from Analytical to Prep and Beyond*, Jeff Caldwell, Princeton Chromatography
9:30am	112	*The Use of Supercritical Fluids in the extraction and purification of Botanical Reference Standards*, René de Vaumas, Extrasynthese
10:00am		Break
10:30am	113	*From Production to Extraction & Analysis: A Chemical Perspective on Citrus*, Jeff Povelones, International Flavors & Fragrances
11:00am	114	*How to Detect Adulteration in Supercritical Fluid Extracts: Special Focus on Ginger CO_2,* Satyal Prabodh, Aromatic Plant Research Center

2026 Final Technical Oral Program

Tuesday Morning Continued

HILIC Fundamentals and Novel Applications **Chair: Fabrice Gritti, Waters Corporation**		
Room: Witherspoon C; 2nd Floor		
9:00am	115	*Molecular Simulation of Hydrophilic Interaction Chromatography (HILIC): How HILIC Works,* Mark Schure, Kroungold Analytical, Hsiao-Feng Liu, Chung-Kai Chang, J. Ilja Siepmann, University of Minnesota, Stephanie Schuster, Peter Pellegrinelli, William Miles, Advanced Materials Technology, Inc.
9:30am	116	*Insights into Hydrophilic Interaction Chromatography by Quantitative Assessment of Retention Mechanisms*, Yong Guo, Fairleigh Dickinson University
10:00am		Break
10:30am	117	*From Retention Mechanisms to Method Development: HILIC for Nucleic Acids*, Jonathan Maurer, Megane Aebischer, Agathe Depraz-Depland, Davy Guillarme, University of Geneva, Agathe Bousquier, Camille Malburet, Jean-François Cotte, Sanofi
11:00am	118	*Examples of Using Hydrophilic Interaction Liquid Chromatography for Small Molecule Analyses: A Case Study of Radiopharmaceutical Precursors*, Kenneth Berthelette, Waters Corporation

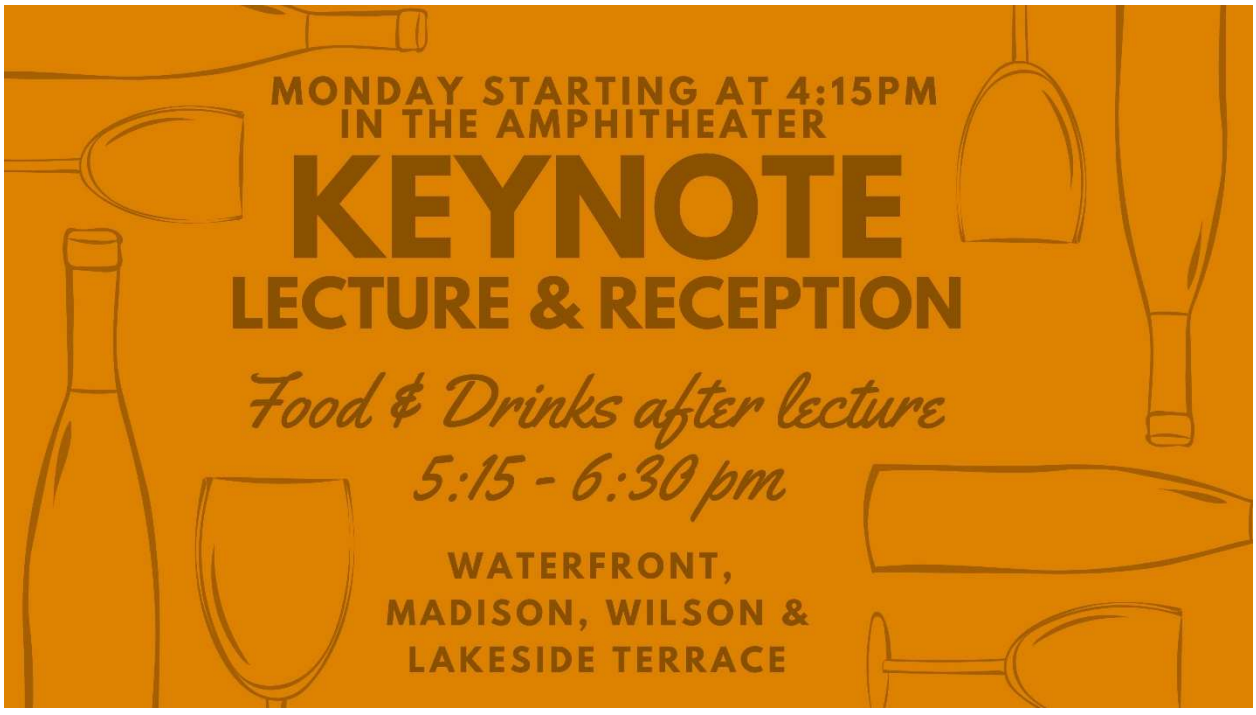
Green Innovations in Forensic Chemistry: Sample Preparation & Field and Lab Portable Spectroscopy & Chromatography **Chair: Tom Brettell, Cedar Crest College**		
Room: 110; 1st Floor		
9:00am	119	*Expanding Nontargeted Analysis with Hydrogen Carrier Gas for High Resolution Separations in Forensic Science*, Katelynn Perrault Uptmor, Kira M. Fisher, Emma L. Macturk, William & Mary
9:30am	120	*Green Extraction Methodologies for Drugs of Abuse,* Emanuela Gionfriddo, University of Buffalo-SUNY
10:00am		Break
10:30am	121	*Innovations in Forensic Applications of Portable Spectroscopy*, Brooke Kammrath, University of New Haven
11:00am	122	*Field and Lab Portable LC Instrumentation for Drugs of Abuse*, Ira Lurie, George Washington University

Student Speed Session **Chairs: Motunrayo Oladele, Marcelo Guzman, University of Kentucky, Fernanda Delgado Cornelio, University of Delaware**		
Room: Stockton B; 1st Floor		
9:00am	123	*Molecular-Level Understanding of the Interactions Between Model Nanoplastics and Phospholipid Vesicles (Liposomes)*, Kushani Mendis, Laura Kesner, Zeev Rosenzweig, University of Maryland Baltimore, Zeke Piskulich, Qiang Cui, Boston University
9:12am	124	*Quadrant-Based Large-Area SEM–EDS Mapping for Elemental and Morphological Characterization of PM2.5*, Motunrayo Oladele, Marcelo Guzman, University of Kentucky
9:24am	125	*Preparation of Standards and Spectroscopic Analysis of Wooden Furniture Finishes for Determining Period of Manufacture*, Ethan Radcliffe, West Chester University
9:36am	126	*Comparative MALDI-ToF/ToF Analysis of Digested and Non-Digested <10 kDa SerumPeptidomes for Early Detection of Breast Cancer*, Shaelee Torres, Sarah Abbott, Pathea Bruno, Costel Darie, Clarkson University
9:48am	127	*Understanding Mead Production via Comprehensive Two-Dimensional Gas Chromatography, Fermentation Kinetics, and Chemometric Analysis*, Sarah C. Foster, Katelynn A. Perrault Uptmor, William & Mary, Samuel W. Straight, Silver Hand Meadery
10:00am		Break
10:30am	128	*Fluorescence Sensing of Lamotrigine Enabled by Nitrogen-Doped Carbon Dots*, Leah Boone, Christa Colyer, Wake Forest University
10:42am	129	*Conformal Predictions of Synthetic Data for Pharmaceutical Analysis*, Levi Bielewicz, Karl Booksh, University of Delaware
10:54am	130	*Detecting Micro- and Nanoplastic Uptake in Human Cancer Cells with Spatially Resolved 3D Raman Spectroscopy*, Xavier Flaiz, Raghed Kurbaj, Ariel Alperstein, University of Delaware
11:06am	131	*Synthesis, Characterization and NMR Spectral Deconvolution Assignment of Ir(III) Cyclometalated Complexes Using 2,3-diphenylquinoxaline Derivatives*, Daniela Moncada, Nataly Areosa Suarez, Gary Martin, Wyatt Murphy, Seton Hall University
11:18am	132	*Multidimensional NMR Assignment of Cyclometalated Iridium(III) Complexes Enabled by a Fluorinated Analogue*, Nataly Areosa Suarez, Daniela Moncada, Gary Martin, Wyatt Murphy, Seton Hall University

Tuesday Morning Continued

Gas Chromatography for Sensitive and Reliable Chemical Analysis **Chair: Mariann Neverovitch, Bristol Myers Squibb**		
Room: Nash; 2nd Floor		
9:00am	133	*Overcoming Helium Supply Issues by Adopting Hydrogen as a Carrier Gas for GC/MS and GC/MS/MS Techniques in Environmental Laboratories*, Gustavo Serrano Izaguirre, Bruce Quimby, Samuel Haddad, Agilent Technologies
9:20am	134	*Improved Baseline Stability and Sensitivity in GC–MS Using a Novel Column with an Uncoated Interface Section*, Ramkumar Dhandapani, Restek, Javier Arrebola, University of Almeria
9:40am	135	*Ultra-Low Bleed and High Inertness in the Next Generation of 5%-Phenyl Gc Columns: Improving Trace-Level Quantification in GC/MS*, Gustavo Serrano Izaguirre, Samuel Haddad, Ashlee Gerardi, Agilent Technologies
10:00am		Break
10:30am	136	*Towards the Development of Advanced Identification Methodologies of Counterfeited Perfumes: Programmable Temperature Vaporization (PTV) Inlet-GC-MS/MS of Fragrances*, Alexander Bulsiewicz, Nicholas Snow, Seton Hall University
10:50am	137	*Monograph Testing for Compressed Gases in the Pharmaceutical Industry - What is Required?*, Ralph Ciotti, Atlantic Analytical Laboratory

Mass Spectrometry-Based Proteomics & Metabolomics **Chair: Costel Darie, Clarkson University**		
Room: Stockton C; 2nd Floor		
9:00am	138	*Mass Spectrometric Investigation of Sera from Women with Breast Cancer for Identification of Potential Early-Stage Protein Biomarkers*, Zachary Ely, Danielle Whitham, Pathea Bruno, Costel Darie, Clarkson University
9:20am	139	*Membrane Proteomics of Small Extracellular Vesicles Unveils the Role of the Aged Host Microenvironment in Ovarian Cancer Progression*, Reihaneh Safavisohi, Seton Hall University
9:40am	140	*Untargeted, Quantitative Metabolomics Analysis Using ZT Scan Data Independent Analysis*, David Colquhoun, Paul Baker, SCIEX
10:00am		Break
10:30am	141	*Metabolic Characterization of Common Bacterial Growth Media*, Emma Guiberson, Caroline Lawler, Josephine Dolan, Yuhang Wu, Middlebury College
10:50am	142	*Mass Spectrometry-Based Proteomic Analysis of Breast Milk for Early Breast Cancer Detection*, Aneeta Arshad, Costel C. Darie, Clarkson University, Kathleen F. Arcaro, University of Massachusetts



2026 Technical Poster Program

Tuesday, November 17: E-Poster Student Awardee Session; 11:30am – 12:25pm	
Paper #	***Location: Bridge to the Hotel***
143	*Modified Nanomaterials Engaging in Halogen Bonding Toward Explosive Detection Interfaces for Sensor Development*, Benjamin Edelman, Lucas Chuidian, Carol Parish, Michael Leopold, University of Richmond
144	*Differentiating Pepper Spray Products using GC×GC and Tile-Based Fisher Ratio Metrics,* Sarah C. Foster, Mika L. Smoyer, Kira M. Fisher, Katelynn A. Perrault Uptmor, William & Mary
145	*Investigation of Altered Glycosylation in Endometriosis: Toward Improved Biomarker Discovery,* Iris Liebman, Alexandra Steigmeyer, Stacy Malaker, Yale University, Ell Handy, Mariko Morimoto, University of Notre Dame
146	*Scaling Up Real-Time Precision Opto-Control,* Ishaan Singh, Chi Zhang, Purdue University
147	*Analysis of Membrane Protein Mixtures Using Capillary Electrophoresis-Mass Spectrometry*, Noah Gould, Alexander Ivanov, Northeastern University
148	*Understanding Neuronal Excitability Using Mass Spectrometry Imaging of SCN2A-deficient Organoids,* Alyssa Moore, Xiaoling Chen, Yang Yang, Julia Laskin, Purdue University
149	*Towards a Bioinorganic Programming Language: X-Ray Crystallography of Metalated DNA*, Karol Woloszyn, Simon Vecchioni, Yoel Ohayon, James Canary, Ruojie Sha, New York University, Lynn Rothschild, NASA
150	*Rapid Determination of Drug-to-Antibody Ratios in Antibody–Drug Conjugates Using Ultrafast Microdroplet Digestion Technology*, Yongqing Yang, Juana Perez, Timothy Yaroshuk, Md Tanim-Al Hassan, Praneeth Ivan Joel FNU, Hao Chen, New Jersey Institute of Technology, Harsha Gunawardena, Johnson & Johnson, Munkhtsetseg Baatar, National University of Mongolia

Tuesday, November 17: E-Poster Morning Session; 11:30am – 12:25pm	
Paper #	***Location: Bridge to the Hotel***
151	*Scaling Electrochemiluminescence with Electroactive Surface Area in a Multiplexed Electrochemical Biosensing Platform*, Sophie Mathewson, Kieran Cross, Jasper Pearcy-Kahn, Kira Rahn, Middlebury College
152	*Facilitating Science-Based Extraction Solvent Selection Through Solvent Compatibility Assessment in Medical Device E&L Studies*, Justin Krasnomowitz, Christina Peruzzi, Zheng Li, Johnson & Johnson MedTech, Robert Potter, Actalent, Xianggeng Liu, Insight Global
153	*Peptide Adsorption Profiling: Evaluation of Commercially Available Peptides for Enhance Filtration Efficiency,* Jose Elias Rodriguez Caceres, Peggy Arthur, Chey Jones, Natalia Subelzu, Merck & Co., Inc.
154	*Analysis of Fentanyl in Illicit Drug Mixtures Using the Scatr, a Portable Raman Hyperspectral Imaging Instrument*, Nathaniel Daley, Jason Fontes, Brooke Kammrath, University of New Haven, Desmond Brown, Pauline Leary, NOBLE, Ari Foreman, Scatr, Richard Crocombe, Crocombe Spectroscopy Consulting
155	*Method Development for the Determination of Fentanyl, its Cutting Agents and Selected Metabolites in Whole Blood Using LC-MS/MS*, Haley Kennedy, West Chester University of PA
156	*Extracting Molecular Information from Single-Molecule Fluorescence Blinking*, Chloe Autry, Jonathan Stashenko, Reagan McGrath, Dylan Jones, Kristin Wustholz, Elizabeth Harbron, William & Mary
157	*An Integrated Chromatographic Platform for Comprehensive Analytical Characterization of Bispecific Antibodies,* Xuyang Zhang, Yinan Zhang, Linting Li, Xingrong Zhu, Ke Yang, Sepax Technologies, Inc.
158	*Quantification of Inorganic Counterions using Hydrophilic Liquid Chromatography Coupled with Charged Aerosol Detection,* Margaret Maziarz, Stephanie Harden, Paul Rainville, Waters Corporation
159	*Expanding Biotherapeutic Characterization Across Modalities: Rapid LC-UV-MS Analysis of Peptide Biologics and LNP Lipids Using Next-Generation Wide-Pore RP 230Å Columns,* Natalia Kozlova, Venkata Siva Suryanarayana Gurram, Emery Domain, Hua Yang, Caitlin Hanna, Steve Shiner, Balasubrahmanyam Addepalli, Waters Corporation
160	*Automated Benzoyl Chloride Derivatization of Amines Using an OT-2 Liquid Handling Robot Integrated with a Custom-Built Sonicator,* Siddhi Patel, Dulcemaria Shinault, Sadeepa Mallikarachchi, Taylor Barrow, Christopher Piccolo, James P. Grinias, Rowan University

New this year at EAS – The **Chromatography Forum of Delaware Valley** (CFDV) will be having a **Poster Contest** for related to chromatography for full-time students. The author of the winning poster will receive **$500**!

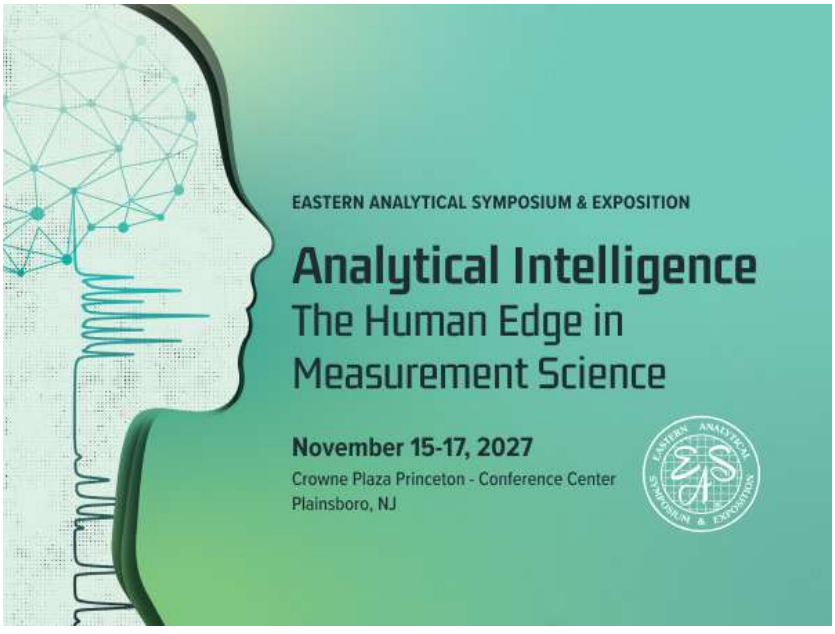
One of the key missions of the CFDV is providing a venue to educate and promote the field of chromatography within the scientific community. With the current student body being the next generation of scientists, the CFDV is sponsoring a $500 award for the best student poster at EAS 2026 related to the field of chromatography. The award will be judged by members of the CFDV Executive Committee with an emphasis on four key areas. They are as follows:

Scientific merit of the project.
Problem solving.
Execution of experiments
Presentation of results.

The awardee will be notified via email following the conference and will be highlighted on our website at CFDV.org to socialize the accomplishment.

2026 Technical Poster Program

Tuesday, November 17: E-Poster Afternoon Session; 12:30pm – 1:25pm	
Paper #	***Location: Bridge to the Hotel***
161	*Bioanalytical Challenges, Practical Solutions, and Establishment of Reliable PK Profiles for a Volatile 6F-NDEA Impurity in a Mouse Pharmacokinetic Study*, Yu-Sheng Sung, DeAnne Stolarik, Natalia Belikova, James Kath, Paige Ebert, Donna Strasburg, Yueli Liu, Yemin Liu, Gary Jenkins, Kennan Marsh, Qin Ji, Yi Yang, AbbVie
162	*Development of an LC-MS/MS Method to Detect and Quantify Free Oligonucleotides in Antibody-Oligo Conjugate (AOC) Serum Samples,* Joel Praneeth, Richa Vartak, Nabin Panth, Rabiul Islam, Bhaskar Kusuma, Suresh Anaganti, Julien Dugal-Tessier, Naresh Jain, NJ Bio, Inc.
163	*Optimization and Validation of a Robust rCE-SDS Method for Drug Substance Purity Assessment of Protein Nanoparticles in Potassium-Based Formulations*, Haofu Huang, Victoria Ng, Maritess Arancillo, Darnell Pierre, Sean Bristow, Igoris Cajevskis, Ray McClain, Sarah Aubert, Merck & Co., Inc.
164	*Efficient and Simplified REE Analysis with Combined ICP-OES and ICP-QQQ-MS*, Ana Garcia Gonzalez, Bert Woods, Agilent Technologies
165	*Ensuring High-Quality Trace Element Data for Environmental Samples Using Microwave-Assisted Acid Digestion,* Alicia Stell, Samuel Heckle, Elaine Hasty, CEM Corporation
166	*Extractables and Leachables Screening Standard for GC by Perkin Elmer Clarus NOVA*, Thomas Mancuso, Perkin Elmer AES
167	*Fan-Free Micro Slurry Direct Air Capture with Ion-Exchange Sorbents and Seawater-Enabled Regeneration*, Haibo Liu, Arup SenGupta, Lehigh University
168	*Navigating Analytical Challenges in the Characterization of a Reactive Raw Material used in the Manufacture of an ADC Drug Linker*, Casey Dougherty-Gunsch, Scott Schultz, Heather Wang, David Schenk, Frank Bernardoni, Merck & Co., Inc.
169	*Effect of Pore Size on Plate Height for 23-mer Oligonucleotides Separated Using Fully Porous Particles and Ion-Pairing Reversed-Phase Liquid Chromatography,* Nolan Eckmann, Daniel Meston, Ronard Pabi, Dwight Stoll, Gustavus Adolphus College, Bob Pirok, University of Amsterdam, Matt Sorensen, Todd Maloney, Eli Lilly and Company
170	*Evaluation of Portable Mass Spectrometry Platforms for Field-Based Detection of Fentanyl Analogues and Novel Psychoactive Substances*, Lauryn Cammarata, Brooke Kammrath, University of New Haven, Pauline Leary, NOBLE, Eric Wallis, Seth Fisher, 1st Detect Corp.
171	*Nanoparticle-Assisted MALDI-TOF Mass Spectrometry for Peptide Analysis*, Nichole Donofrio, Vala Muhaxhiri-Zeka, Salonee Swain, Reihaneh Safavi-Sohi, Seton Hall University
172	*Using Analytical Modeling to Rapidly Develop Robust Chromatography Methods with Fewer Experiments: A Model-First Approach*, Catherine Mihalec, Jessica Conforti, Li Zhu, Adrian Doggett, Jimmy DaSilva, Bristol Myers Squibb
173	*cVSSI Enhances Microflow UPLC–MS Metabolomics in Negative-ion Mode*, Olanrewaju Awoyemi, West Virginia University, Yixiang Wang, Hong Kong Polytechnic University, Herbi Yuliantoro, Peng Li, Lehigh University, Stephen Valentine, University of Louisville
174	*Proteomics Approach to Investigate Age-Related Macular Degeneration*, Victor Njoku, Costel C. Darie, Clarkson University



We want YOU to be part of the 2027 Eastern Analytical Symposium!

SAVE THE DATE!
Call for Papers Opens March 1, 2027

2026 Final Technical Oral Program

TUESDAY AFTERNOON, NOVEMBER 17

EAS will be honoring ALL 6 of our awardees in a special award session on Tuesday, November 17 in the afternoon from 1:15pm – 4:30pm. All registered attendees and exhibitors are invited to attend.

Room: Amphitheatre
Chair: Long Yuan, Biogen

1:15pm; EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN THE FIELDS OF ANALYTICAL CHEMISTRY
Honoring Richard van Breemen, Oregon State University
Paper #175; Invention, Development and Application of Affinity Selection-Mass Spectrometry
Sponsored by

Bristol Myers Squibb™

1:45pm; EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN SEPARATION SCIENCE
Honoring David Bell, Phiex Technologies
Paper # 176; Fundamental Retention Mechanisms in HILIC: A Foundation for Robust Method Development
Sponsored by

NanoChrom

2:15pm; EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN MASS SPECTROMETRY
Honoring Joshua Coon, University of Wisconsin-Madison
Paper # 177; From Systems to Structure: How Mass Spectrometry Drives Biological Discovery
Sponsored by

American Microchemical Society

2:45pm – 3:00pm Break

3:00pm; EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN MAGNETIC RESONANCE
Honoring Robert Schurko, Post-Humous
Paper #178; Remembering Rob Schurko's Myriad Contributions to NMR Crystallography,
Sean Holmes, Florida State University
Sponsored by

BRUKER NEWERA

3:30pm; EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN VIBRATIONAL SPECTROSCOPY
Honoring Brooke Kammrath, University of New Haven
Paper #179; Solving Problems with Vibrational Spectroscopy
Sponsored by

Coblentz SOCIETY

4:00pm; EAS YOUNG INVESTIGATOR AWARD
Honoring Xin Yan, Texas A&M University
Paper #180; Precision Lipidomics by Mass Spectrometry: From Lipid Isomeromics to Lipid–Protein Interactions
Sponsored by

AMGEN

2026 Final Technical Oral Program

WEDNESDAY MORNING, NOVEMBER 18

Instrumental Analysis in Cultural Heritage ***Sponsored by Kenescott Fdn*** **Chairs: Zachary Voras, West Chester University of Pennsylvania, John Scott, New York Microscopical Society**		
Room: Stockton C; 1st Floor		
9:00am	181	*Characterization of an Unattributed Jefferson Declaration Desk Facsimile*, Zachary Voras, Ethan Radcliffe, West Chester University of Pennsylvania
9:30am	182	*Reviving a Collection: Technical Insights into the MFA Boston's Tibetan Thangkas*, Marcie Wiggins, Hsin-Chen Tsai, Jacki Elgar, Museum of Fine Arts Boston
10:00am		Break
10:30am	183	*Using the Method of Continuous Variation to Elucidate the Effects of pH and Ionic Strength on the Metal:Dye Stoichiometry of Lake Pigments*, Jessica Heimann, Salisbury University
11:00am	184	*Technical Investigation of Piet Mondrian's Transatlantic Paintings: Materials, Chronology, and Revision*, Abed Haddad, Museum of Modern Art New York

Integrating Automation into Chemical Analysis ***Sponsored by ACS Division of Analytical Chemistry*** **Chair: James Grinias, Rowan University**		
Room: Nash; 2nd Floor		
9:00am	185	*3D Printed Sample Processing and Handling Platforms for Scaling up Mass Spectrometry Experiments*, Peng Li, Lehigh University
9:30am	186	*Innovating Excipient Analysis Through End-to-End Automation on an Integrated Robotic–HPLC-ELSD System*, Sharon Matamoros, GSK
10:00am		Break
10:30am	187	*A Modular and Affordable Electrochemical Self-Driving Lab Enables Fully Autonomous Electrode Modification and Characterization*, Michael Pence, Griffyn Sgro, Bingxin Yang, Long Luo, University of Utah
11:00am	188	*High Throughput Optical Characterization of Single Plasmonic Nanostructures*, Katherine Willets, Temple University

Nanoplastics and Endocrine Disruptors in the Environment and their Health Implications **Chairs: Genoa Warner, New Jersey Institute of Technology, James Stuart, University of Connecticut**		
Room: 110; 1st Floor		
9:00am	189	SERS Imaging and ICP-MS Quantification of the Biological Translocation of Nanoplastics Using a Dual-Detectable Model Nanomaterial, Huiyuan Guo, Mingjiu Liu, Binghamton University-SUNY, Anupam Das, Florida Gulf Coast University
9:30am	190	*Lifecyle of Micro- and Nanoplastics in the Body and their Contribution to Alzheimer's Disease*, Jaime Ross, University of Rhode Island
10:00am		Break
10:30am	191	*Female Reproductive Impacts of Real-World Endocrine Disruptor Mixtures*, Shuo Xiao, Rutgers University
11:00am	192	*Phthalates and Nanoplastics Disrupt the Mouse Placenta*, Genoa Warner, New Jersey Institute of Technology

AI in Spectroscopy **Chair: Barry Lavine, Oklahoma State University**		
Room: Burr; 2nd Floor		
9:00am	193	*Artificial Neural Networks for Discrimination of Automotive Clear Coats by Motor Vehicle Manufacturer*, Barry Lavine, Collin White, Douglas Heisterkamp, Oklahoma State University
9:30am	194	*Conformal Predictions: More than just a Confidence Interval Machine*, Karl Booksh, Helder Carneiro, Caelin Celani, University of Delaware, Erin McClure-Price, USFS, Barry Lavine, Oklahoma State University
10:00am		Break
10:30am	195	*Extracting Chemical Information from Infrared Images of Polymers to Detect Contaminants and other Defects Essential for Quality Control*, George Affadu-Danful, Arkema Inc., Barry Lavine, Elizabeth Donkor, Oklahoma State University, Thomas Hancewicz, THM Associates
11:00am	196	*Accelerating Pharmaceutical Development via Machine Learning-Enabled Process Analytical Technology*, Joseph Smith, Merck & Co., Inc.

2026 Final Technical Oral Program

Wednesday Morning Continued

Advances in Solid-State NMR Characterization of Pharmaceuticals **Chair: Eric Munson, Purdue University**		
Room: 112; 1st Floor		
9:00am	197	*Utilizing 19F Solid-State NMR to Understand Form Changes in Pharmaceutical Solids*, Joseph Lubach, Genetech
9:30am	198	*Solid-State NMR Investigation of Co-Crystals and Solid Solutions in Structurally Related Model Compounds,* Yunhua Chen, Rodger Henry, AbbVie
10:00am		Break
10:30am	199	*New Insights into Quantitation and Detection in Drug Product Formulations Using Solid-State NMR Spectroscopy*, Michael Hanrahan, Kansas Analytical Services
11:00am	200	*Non-Destructive Evaluation of Lyophilized Products Using Solid-State NMR Spectroscopy*, Nicholas Huls, Eric Munson, Purdue University

Pharmaceutical and Biopharmaceutical Techniques and Application **Chair: Kang Chen, United States Food & Drug Administration**		
Room: Einstein; 1st Floor		
9:00am	201	*Rapid Characterization of Antibodies, Mutated Antibodies and Antibody–Drug Conjugates Using Ultrafast Microdroplet Digestion Technology*, Hao Chen, New Jersey Institute of Technology
9:20am	202	*Myths and Half-Truths in HPLC and Pharmaceutical Analysis*, Michael Dong, MWD Consulting
9:40am	203	*Advancing Small-Molecule Identification: Standards-Free Structural Assignment Using Molecular Rotational Resonance (MRR) Spectroscopy*, Kanchan Sonkar, Alexander V. Mikhonin, Suresh Konda, Chris Thompson, BrightSpec, Inc.
10:00am		Break
10:30am	204	*In-Situ Investigation of Monoclonal Antibody Crystallization Kinetics for Designing High-Concentration Protein Drug Products*, Raymond Flax, University of North Carolina-Chapel Hill, Courtney David, Zhaoxi Zheng, Peter Walsh, Richard Cheng, Guangli Hu, Yufang He, Aaron Cote, Peter Wuelfing, Yongchao Su, Merck Sharp & Dohme LLC
10:50am	205	*Effects of Zinc (II) Ion on Structure, Stability, and Activity of Semaglutide in Prefilled Syringe Formulations,* Emilia Doran, Rickey Su, Ying Wang, University of North Carolina-Wilmington
11:10am	206	*Methyl Proton Spin Relaxation (R2/R1): A Sensitive NMR Method for pH-Dependent Oligomerization of GLP-1 Analogs, Complementing DLS and DOSY-NMR*, Kang Chen, United States Food & Drug Administration

Analytical Techniques for Sensing, Metrology, and Materials Characterization **Chair: Peter Bratin**		
Room: Witherspoon C; 2nd Floor		
9:00am	207	*THz-TDS Evaluation of Water Content in Flax-Based Natural Fiber-Reinforced Composites for Aircraft Applications*, Eric Tucker, Nour Hakim, Matthew Webster, Luke Post, Karina Hafeez, NASA Langley Research Center
9:20am	208	*Improving Sensitivity of a Microfluidic Electrochemiluminescence Biosensor*, Kira Rahn, Kieran Cross, Sophie Mathewson, Christopher Clyne, Edith Mauch, Middlebury College
9:40am	209	*Unified T-Ray Volumetric Metrology and Its Necessity: Advancing Beyond SEM, TEM, AFM, and SIMS Methodologies*, Anis Rahman, Applied Research & Photonics, Inc.
10:00am		Break
10:30am	210	*The Batch Nature of Continuous Flow Production via Natural-Abundance Stable Isotopes*, John Jasper, Molecular Isotope Technologies, LLC, Patrick Fricke, Mans Andreasson, Michael Guerzoni, Oleg Epstein, Staffan Karlsson, Charles Elmore, AstraZeneca, Ann Pearson, Harvard University
10:50am	211	*Analysis of 3D Printing Resins via Thermal Analysis Methods*, Alexis Weber, Justin Lang, PerkinElmer

Chromatographic and Spectroscopic Methods for Forensic Analysis **Chair: Michelle Case, Bristol Myers Squibb**		
Room: Stockton B; 1st Floor		
9:00am	212	*Vibrational Spectroscopic Detection of Bodily Fluids in Fingermarks for Forensic Applications, Mohamed Amin, Lillian Christensen*, Igor Lednev, University at Albany, Badr Genaei, Bessy D'Cruz, Entesar Al-Hetlani, Kuwait University
9:20am	213	*A Study in Spectra: Non-Destructive Estimation of Late Postmortem Interval Using Portable UV–Vis–NIR Spectroscopy*, M. Isabel Sanchez-Melo, Bristol Myers Squibb, Carlo R. Alberto, Raiven Cirio, Kayla A. Modesto, Marlene T. Muhammad, Anjilena J. Osenenko, Dakshata Ravinder, Sevda Selman, Emma D. Szaro, Vasilisa Yukhno, Sara C. Zapico, New Jersey Institute of Technology
9:40am	214	*The Effect of Water Temperature and Type on the Evolution of Decomposition Volatile Organic Compounds from Mammalian Tissue*, Virginia Weina, Katelynn Perrault-Uptmor, William & Mary
10:00am		Break

2026 Final Technical Oral Program

Wednesday Morning Continued

Extractables & Leachables in Pharmaceutical Development **Chair: Michelle Case, Bristol Myers Squibb**		
Room: Stockton B; 1st Floor		
10:30am	215	*Ultra-Sensitive Trap Headspace GC-MS/MS for Trace Analysis of Leachable NDBA and Other Small Molecule Nitrosamines in Infusion Bags*, Kevin Nyhuis, Dujuan Lu, Danny Hower, SGS Pharma, Yoshiro Hiramatsu, Brad Coopersmith, John D'Alessio, Crystal Cheong, Jonathan Soffer, Shimadzu Scientific
10:50am	216	*Using Copilot to Support Unknown Identification in Extractables and Leachables Studies*, Yunyun Yuan, Ying Jiang, Yijun Lu, J&J
11:10am	217	*Managing Extractables & Leachables in ADC Development and Manufacturing*, Bin Sun, Cytiva

2026 Technical Poster Program

Wednesday, November 18: E-Poster Morning Session; 11:30am – 12:25pm	
Paper #	***Location: Bridge to the Hotel***
218	*Chemometric Evaluation of Plasma N-Glycomes for Time-Sensitive Drug Administration in High-Fat Diet Mice,* Max Kapetanakis, Reihaneh Safavisohi, Seton Hall University
219	*Enhanced Electrocatalytic Performance of Metal-Doped Boron Nitride for Nitrate Reduction*, Meisu Wang, Princeton High School, Rehan Qureshi, Xianqin Wang, New Jersey Institute of Technology
220	*FeBN Electrocatalyst for High-Performance Nitrate Reduction and Sustainable Ammonia Synthesis*, Rehan Qureshi, Xianqin Wang, New Jersey Institute of Technology
221	*Revealing What Thermalgravimetric Analysis Misses: TG-IR-GC/MS,* Samantha Nania, PerkinElmer US LLC
222	*Development of a HILIC-MS Method for Quantification of Residual EPPS in Pharmaceutical Process Organic Layer*, Van Truong, Merck & Co., Inc.
223	*Analysis of Biopharmaceutical Critical Quality Attributes Using Capillary Scale Liquid Chromatography*, Joe Creery, Samuel Foster, Milton Lee, John Stimus, Axcend
224	*Robust Size-Exclusion Analysis of Lipid Nanoparticles Using Polymer-Based 3000 Å SEC*, Linting Li, Yinan Zhang, Xuyang Zhang, Ke Yang, Sepax Technologies, Inc.
225	*Evaluation of System Performance Parameters for Quality Control in GC×GC-TOFMS Systems,* Jackson Webb, Katelynn Perrault Uptmor, William & Mary
226	*Analysis of Extracellular Vesicles Using Matrix-Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry,* Kenneth Tomkovich, Matthew Leinfuss, Reihaneh Safavi-Sohi, Seton Hall University
227	*Guiding the Molnupiravir Tablet Formulation Using Physiologically Based Biopharmaceutics Modeling and Successfully Establishing Dissolution Safe Space*, Thomas Morrow, Nicole Jarvi, Madeline Halota, Cheng Sun, Prapti Kafle, Rachel King, Grace Okoh, Sanjaykumar Patel, Tycho Heimbach, Merck Sharp & Dohme LLC
228	*Investigating the Effects of Overexpression and Downregulation of Human Jumping Translocation Breakpoint Protein (hJTB) Using In-Gel and In-Solution Digestion-Based Proteomics in HEK293 Cells,* Anya Bansal, Benjamin Priest, Taniya Jayaweera, Madhuri Jayathirtha, Costel Darie, Clarkson University, Anca-Narcisa Neagu, University of Iași
229	*Breast Milk Proteome Alterations Associated with Breast Cancer Revealed by a Longitudinal Mass Spectrometry-Based Time-Course Proteomics Study*, Paidamoyo Goredema, Lilly Reape, Aneeta Arshad, Costel Darie, Clarkson University, Kathleen Arcaro, Brian Pentecost, University of Massachusetts
230	*Mass Spectrometry–Based Proteomic Analysis of Combined Left- and Right-Breast Milk (9v9) for Breast Cancer Biomarker Discovery*, Ashanti Jones, Aneeta Arshad, Kathleen Arcaro, Costel Darie, Clarkson University
231	*Using Density Functional Theory Methods to Probe the Energetics of the Quinone Intermediates of the Photosynthetic Reaction Center, Photosystem I*,* Summer Henson, Patrick Landry, K. V. Lakshmi, Rensselaer Polytechnic Institute, Vasily Kurashov, John H. Golbeck, Pennsylvania State University, Christopher Gisriel, University of Wisconsin-Madison, Mrinal Shekhar, Broad Institute of MIT and Harvard
232	*Copper-Porphyrin Aluminum Metal-Organic Framework, Sorption of Diethyl Sulfide from Air, Kinetics, Mechanism, and Stoichiometric Adsorption Complex*, Alexander Samokhvalov, Mohammad Ahmad, Morgan State University
233	*Stoichiometric Binary Complexes of Pharmacological Terpenes with Metal-Organic Framework: Synthesis, Bonding, Delayed Release, and Nanocolloids*, Alexander Samokhvalov, Kamala Panthi, Morgan State University
234	*Application of Raman Spectroscopy for the Development of High Crystallinity and Oriented Polyethylene Films*, Ryan Li, Sophie Jedrysek, Daniel Beekman, Anjeli Santillan, Brandon Cevallos, Ronald Demartino, Michael Jaffe, Lingfen Rao, New Jersey Institute of Technology

WEDNESDAY AFTERNOON, NOVEMBER 18

Solutions for Complex Analytical Challenges ***Sponsored by Amgen*** **Chairs: Wesley Barnhart & Kevin Crossley, Amgen**		
Room: Witherspoon C; 2nd Floor		
1:00pm	235	*Enabling Purification of Challenging Samples Through Advanced Chromatographic Strategies*, Kevin Crossley, Jonathan Gutierrez, Ayesha Seth, Wes Barnhart, Imad Haidar Ahmad, Amgen
1:20pm	236	*Recent Advances in the Use of the Charged Aerosol Detector at the Discovery Stage of Pharmaceutical Research*, Wesley Barnhart, Troy Handlovic, Yue Xin, Imad Haidar Ahmad, Amgen
1:40pm	237	*Ensuring Quality Data for Organochlorine Pesticide Analysis by Using an Optimized Dual Bed Sample Extract Cleanup Cartridge*, Diego Lopez, Alexis Shelow, Jason Thomas, Jason Hoisington, Ramkumar Dhandapani, Restek Corporation
2:00pm	238	*Capillary Electrophoresis Based Separation of Virus-Like Particles and Nano-Emulsions for Vaccine Development*, Yousef Hassan Elshamy, Caleb Kinsey, Richard Rustandi, Adam Sutton, Merck & Co., Inc.
2:20pm	239	*Simultaneous SIM/Scan P&T-GC/MSD: High-Confidence, High-Sensitivity VOC Quantitation*, Thomas Hartlein, Teledyne Tekmar, Jessica Lehman, Agilent Technologies
2:40pm	240	*The Role of Surface Deactivation for the Analysis of Low Level Acidic, Basic, and Neutral Compounds for EPA 8270E*, Ramkumar Dhandapani, Chris English, Restek Corporation

Advances in Analytical Development of Antibody Drug Conjugates **Chair: Yuan Ren, Bristol Myers Squibb**		
Room: Einstein; 1st Floor		
1:00pm	241	*In-Process Analytical Support for Conjugation Process Development of Antibody Drug Conjugates*, Lianjia Ma, Yuan Ren, Ziqing Lin, Galina Bulgakova, Michael Peddicord, Huiyuan Li, Andrew McClain, Hao Luo, Guoyong Sun, Xiaoxia Gong, Catherine Mihalec, Zhongrui Zhang, Yingchen Chen, Bristol Myers Squibb
1:30pm	242	*Control of Free Drug and Related Impurities: A Case Study to Address Challenges of Complex Mixtures*, Guoyong Sun, Prianka Saha, Xiaolu Liao, Li Zhu, Ziqing Lin, Lianjia Ma, Hao Luo, Ming Zeng, Bristol Myers Squibb
2:00pm	243	*From Stability to Control Strategy: Analytical Lessons Learned for Complex ADC Drug-Linkers*, Suji Lee, Andrew Semple, Tao Wang, Yiyang Liu, Daniel Zewge, Ryan Cohen, Jackson Hall, Mirlinda Biba, Jing Xu, Eric Phillips, Erica Schwalm, Thomas Niedringhaus, Merck & Co., Inc.
2:30pm	244	*Comprehensive LC-MS & LC-MALS Assays for Antibody-Drug Conjugated (ADC) and Antibody-Oligonucleotide Conjugate (AOC) Characterization*, Samantha Ippoliti, Ying Qing Yu, Waters Corporation

Advances in Benchtop NMR for Materials Characterization and Process Monitoring **Chair: Michael Hall, SABIC**		
Room: 112; 1st Floor		
1:00pm	245	*Quantitative Benchtop Nuclear Magnetic Resonance for Vaccine Development*, Adam Sutton, Richard Rustandi, Merck & Co., Inc.
1:30pm	246	*Benchtop NMR as a PAT Sensor: Enabling Process Understanding and Real-Time Control*, Anh Le-McClain, Magritek Inc.
2:00pm	237	*Development of Online Low-Field Benchtop NMR Coupled to High-Performance Liquid Chromatography for Pharmaceuticals*, Noah Menard, Bita Firoozbakht, Kevin Schug, University of Texas-Arlington, Jonathan Ferguson, Masayuki Nishimura, Scott Kuzdza, Shimadzu Scientific Instruments, Inc., John Frost, John Price, Q Magnetics, LLC
2:30pm	248	*3M Benchtop NMR: Applications and Capabilities*, Travis Gregar, 3M

Integrating Modeling and Experimentation for High Concentration Biologic Drug Products **Chair: Pin-Kuang Lai, Stevens Institute of Technology**		
Room: Stockton C; 1st Floor		
1:00pm	249	*High-Throughput Small Angle X-Ray Scattering Reveals Structure Factor Transitions Linked to High-Concentration Antibody Viscosity*, Pin-Kuang Lai, Stevens Institute of Technology
1:30pm	250	*Development and Delivery of Subcutaneous Formulations: Insights from Molecular Simulation and In-Vitro Simulators*, Hao Lou, University of Kansas
2:00pm	251	*wNMR Relaxometry for the In Situ Assessment of High-Concentration Biologics and Product Security*, Marc Taraban, University of Maryland
2:30pm	252	*Predicting High Concentration Viscosity in Multi-Specific Antibody Solution*, Sudeep Adhikari, Pin Kuang Lai, Stevens Institute of Technology

2026 Final Technical Oral Program

Wednesday Afternoon continued

Analysis of Cannabis Products **Chair: Greg Sotzing, University of Connecticut**		
Room: Nash; 2nd Floor		
1:00pm	253	*Fluorescence from Natural Resource Cannabinoids for Biomedical Imaging,* Greg Sotzing, Pragati Rout, University of Connecticut
1:30pm	254	*Intraarticular Sustained Release of Dicannabidiol for Prolonged Osteoarthritic Pain Relief in Monoiodoacetate Induced Osteoarthritis in Rat Model*, Lakshmi Nair, Erick Orozco Morato, Pragati Rout, Joseph Walker, Gregory Sotzing, University of Connecticut
2:00pm	255	*Cannabinoids and Addiction*, Steven Kinsey, University of Connecticut
2:30pm	256	*Cannabinoid Therapeutics*, Mark Scialdone, St. Michael's College

Green Chemistry: Sustainable and Modern Solutions **Chair: Shirley Fischer-Drowos, Widener University**		
Room: 110; 1st Floor		
1:00pm	257	*Sustainable Method Evaluation throughout the Lifetime of an Agricultural Product*, Mary Grace Guardiean, Austin Whittington, Anna Grifo, Xiaoyan Wang, Mary Ellen McNally, FMC Corporation
1:20pm	258	*Green Chemistry in Forensics: Utilizing AGREEprep Scoring for Method Comparisons and Development*, Kira Bochard, Shayna Kasher, NMS Labs
1:40pm	259	*DOZN™3.0 - A Quantitative Green Chemistry Evaluator for Sustainable Future,* Ettigounder Ponnusamy, MilliporeSigma
2:00pm	260	*Green Analytical Chemistry: Importance and Guidance for Industry and Academia*, Mike Hicks, Merck & Co., Inc., Isamir Martinez, American Chemical Society, Keith Gaylan, Abbvie Pharmaceuticals, Matthew Osborne, AstraZeneca, Mark Zell, Takeda Pharmaceuticals, Paul Ferguson, SEDA Pharmaceutical Development Services

Spectroscopy: New Techniques and Applications **Chair: Gene Hall, Rutgers University**		
Room: Stockton B; 1st Floor		
1:00pm	261	*3D Confocal Raman Imaging of PFOA Bioaccumulation in Trehalose-Immobilized DOPC Giant Unilamellar Vesicles*, Kaleb Sharrer, Dawson Dodd, Venkat Bhethanabotla, Theresa Evans-Nguyen, University of South Florida
1:20pm	262	*Towards Super Resolution Two-Dimensional Infrared (2DIR) Spectroscopy*, Olivia Tancredi, Audrey Carson, Saul Tonalli Rodriguez Vazquez, Ariel Alperstein, University of Delaware
1:40pm	263	*Revealing the Fugitive Palette in Art using Surface-Enhanced or Single-Molecule Spectroscopy*, Kristin Wustholz, Alisha Khodabocus, Chloe Autry, William & Mary
2:00pm	264	*Direct, Selective Analysis of Ethylene Oxide and Acetaldehyde in Complex Food Matrices by Molecular Rotational Resonance Spectroscopy*, Kristine Bissell, Chris Thompson, Alexander V. Mikhonin, Voislav Blagojevic, BrightSpec, Inc.
2:20pm	265	*Quantitative Screening of Isomeric Impurities in Small Molecule Raw Materials Using Targeted MRR,* Kanchan Sonkar, Alexander Mikhonin, Suresh Konda, Christopher Thompson, BrightSpec, Inc.

Data-Driven Analytical Chemistry: From Chemometrics to Artificial Intelligence **Chair: Suzanne Schreyer, Rigaku Analytical Devices**		
Room: Burr; 2nd Floor		
1:00pm	266	*Uncovering Hidden Trends in Analytical Data Using PCA*, Michelle D'Souza, Karl Nedwed, Ty Abshear, Graeme Whitley, Wiley
1:20pm	267	*Optimizing Solvent Selection and Dimensionality Reduction Workflows For GC×GC Fire Debris Analysis,* Madison O'Brien, Katelynn Perrault-Uptmor, William and Mary, Mike Dereviankin, Onterris
1:40pm	268	*Integrating Conformal Prediction with Laser-Induced Breakdown Spectroscopy for Hardwood Species Identification*, Katelyn Blair, Fernanda Delgado Cornelio, Karl Booksh, University of Delaware
2:00pm	269	*Artificial Intelligence–Assisted LC–MS Method Development for Screening Triglycerides in Vegetable Oils and Animal Fats*, Mark Wang, Scott Huffman, Ravi Kalyanaraman, Bristol-Myers Squibb
2:20pm	270	*Evaluation of Generative AI to Assist with NMR Pulse Programming*, Ryan Cohen, Merck & Co., Inc.

2026 EAS Awards

EAS will be honoring ALL 6 of our awardees in a special award session on
Tuesday, November 17 from 1:15pm – 4:30pm 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 Richard van Breemen, Oregon State University; *sponsored by Bristol Myers Squibb*

1:15pm: Invention, Development and Application of Affinity Selection-Mass Spectrometry



Richard van Breemen is Professor of Pharmaceutical Sciences in the College of Pharmacy, serves on the faculty of the Linus Pauling Institute, and is a founding member of the Global Hemp Innovation Center at Oregon State University. Richard received his B.A. in chemistry from Oberlin College in 1980 and his Ph.D. in Pharmacology and Experimental Therapeutics from the Johns Hopkins University School of Medicine with Catherine Fenselau in 1985. He then carried out post-doctoral research in laser desorption mass spectrometry at Johns Hopkins University with Robert Cotter. After teaching chemistry at North Carolina State University and medicinal chemistry and pharmacognosy at the University of Illinois at Chicago, Richard joined the faculty of Oregon State University and the Linus Pauling Institute in 2018. Previously, Richard received the Harvey W. Wiley Award from the AOAC International in 2008, the Varro E. Tyler Prize from the American Society of Pharmacognosy in 2017, Researcher of the Year at the University of Illinois at Chicago in 2015, and the Oregon State University Impact Award for Outstanding Scholarship in 2023. Richard is a Fellow of the International Carotenoid Society and the AOAC International and is a member of the USP Dietary Supplements Admission, Evaluation, & Labeling Expert Committee. He has served on several scientific journal editorial boards including the *Journal of AOAC International, Biomedical Chromatography, Combinatorial Chemistry and High Throughput Screening,* and *Assay and Drug Development Technologies*. Richard's research concerns the discovery of pharmacologically active natural products using affinity selection-mass spectrometry, the discovery and development of natural products that prevent cancer and neurological degenerative diseases, and the safety and efficacy of botanical dietary supplements, especially those used by menopausal women. His research group pioneered several affinity-selection mass spectrometry drug discovery techniques including pulsed ulrafiltration and magnetic microbead affinity selection screening. He has published over 400 research papers and book chapters concerning natural products, botanical dietary supplements and the use of mass spectrometry for drug discovery and development from natural product sources, and he has mentored over 80 graduate students and postdoctoral fellows.

EAS Award for Outstanding Achievements in Separation Science, honoring Dr. David Bell, Phiex Technologies; *sponsored by NanoChrom*

1:45pm: Fundamental Retention Mechanisms in HILIC: A Foundation for Robust Method Development



Dr. David S. Bell has devoted more than thirty years to exploring and improving the science of chromatography, approaching the field with curiosity, persistence, and a genuine desire to help others succeed. His work has supported the development of novel separation technologies, strengthened the organizations he has served, and contributed to the broader scientific conversation. Dave currently serves as Director of Applied R&D at Phiex Technologies and is also the owner and lead consultant of ASKkPrime, LLC, a company dedicated to fostering new separation technologies. In both roles, he works at the intersection of scientific rigor, practical application, and thoughtful guidance, supporting ideas and products with the potential to benefit the broader community. His career has included leadership positions such as Research Fellow and Director of GC Solutions at Restek Corporation, as well as Senior Manager of Separations Technology and Workflow Development at MilliporeSigma. Before entering the chromatography industry, he spent a decade in the pharmaceutical sector supporting drug development through analytical method development and validation. These experiences have grounded his work in both scientific depth and real-world need. An active contributor to the chromatography community, Dave writes regularly as a columnist and serves on the editorial board of *LCGC International*, sharing insights drawn from years of hands-on research and collaborative problem-solving. He has authored over 95 peer-reviewed and trade publications. He has presented his work at numerous scientific meetings around the world—opportunities he views as both a privilege and a responsibility to support continued growth in the field.

EAS Award for Outstanding Achievements in Mass Spectrometry, honoring Professor Joshua Coon, University of Wisconsin-Madison; *sponsored American Microchemical Society*

2:15pm: From Systems to Structure: How Mass Spectrometry Drives Biological Discovery



Professor Joshua Coon grew up in rural Michigan, where he enjoyed fly fishing and woodworking, even building several riverboats during high school and college. His interest in analytical chemistry stemmed from a love of building chemical instrumentation. After earning his Ph.D. from the University of Florida in 2002, he moved to the University of Virginia, where he co-invented electron transfer dissociation (ETD). Coon joined the University of Wisconsin-Madison in 2005 , where he is currently a professor of chemistry and biomolecular chemistry and holds the Thomas and Margaret Pyle Chair at the Morgridge Institute for Research. He also directs the NIGMS National Center for Quantitative Biology of Complex Systems. His program specializes in novel chemical instrumentation for studies ranging from basic biochemical questions to translational human research. To date, he has published over 400 peer-reviewed manuscripts with over 38,700 citations. His contributions have been recognized with numerous awards, including the Biemann Medal from the American Society for Mass Spectrometry (2012), the Donald F. Hunt Distinguished Contribution Award (US HUPO, 2025), and the ACS Chemical Instrumentation Award (2023). Coon has mentored 39 Ph.D. graduates and 12 postdoctoral scholars and currently serves as the chair of the NIH Study Section MCST-56.

EAS Award for Outstanding Achievements in Magnetic Resonance, honoring Professor Robert Schurko, Florida State University, Post-Humous; *sponsored by Bruker BioSpin and New Era Enterprises*

3:00pm: Remembering Rob Schurko's Myriad Contributions to NMR Crystallography, Sean Holmes, Florida State University



Robert W. Schurko was a Professor of Chemistry at the Florida State University and Director of the NMR/MRI User Program at the National High Magnetic Field Laboratory (MagLab). His research has helped redefine what is experimentally possible in solid-state NMR (SSNMR), spanning fundamental methodology, high-field instrumentation, and transformative applications in inorganic chemistry, materials science, and pharmaceuticals. Schurko is the author of more than 165 refereed publications and has secured over $25M in competitive research funding. He is widely recognized for pioneering ultra-wideline SSNMR methods that enable routine study of "unreceptive" nuclides, including those that are quadrupolar, low-γ, and low-abundance, and/or that exhibit extreme broadening due to anisotropic interactions. This is accomplished through innovations in pulse-sequence design, broadband excitation/detection strategies, and probe hardware. His development of pulse sequences such as WURST-CPMG, BRAIN-CP, and PROSPR has opened new analytical capabilities across large regions of the periodic table, allowing his group to conduct experiments on more than 80% of NMR-active nuclides. A major theme of his work is applying advanced SSNMR and first-principles quantum chemical calculations to problems that challenge diffraction-based structure determination. Notably, his group has established powerful NMR crystallography workflows for pharmaceutical salts and complex solid forms, using highly sensitive quadrupolar observables (e.g., 35Cl, 14N, 17O electric field gradient (EFG) tensors) as structural reporters for hydrogen bonding, polymorphism, and dosage-form composition. His honors include election as a Fellow of the International Society for Magnetic Resonance (2025) and the Florida Academy of Sciences, Engineering, and Medicine (2025), and well as receiving the Regitze R. Vold Memorial Prize for sustained innovation in SSNMR (2023).

EAS Award for Outstanding Achievements in Vibrational Spectroscopy, honoring Professor Brooke Kammrath, University of New Haven; *sponsored by the Coblentz Society*

3:30pm: Solving Problems with Vibrational Spectroscopy



Brooke W. Kammrath, Ph.D., ABC-GKE is a Professor of Forensic Science at the University of New Haven and Co-Executive Director of the Henry C. Lee Institute of Forensic Science. In addition, she works as a consulting criminalist where she is a qualified expert in both state and federal courts. Professor Kammrath is certified with the American Board of Criminalistics (ABC), is on the Board of Directors for the Eastern Analytical Symposium (EAS), is an elected member of the Governing Boards of the Society for Applied Spectroscopy (SAS) and the Coblentz Society, is the past-president of the New York Microscopical Society (NYMS), and is a member of several professional organizations (including the American Academy of Forensic Sciences and the Northeastern Association of Forensic Scientists). She is an Associate Editor of the Journal of Forensic Sciences and Applied Spectroscopy Practica. Dr. Kammrath is the co-editor of the books Portable Spectroscopy and Spectrometry I and II withRichard Crocombe, PhD., and Pauline Leary, PhD. and Solving Problems With Microscopy: Real Life Examples in Forensic, Life and Chemical Sciences with John A. Reffner, PhD, and the co-author of the books Blood Traces with Peter R. DeForest and Peter A. Pizzola, PhD and Forensic Science: Laboratory Manual and Workbook, 4th Edition with Nicholas Petraco and Thomas Kubic. She has also co-authored 2 university laboratory manuals, 10+ book chapters, 30+ journal articles, 4 encyclopedia articles, and over 100 professional conference presentations.

EAS Young Investigator Award, honoring Professor Xin Yan, Texas A&M University; *sponsored by AMGEN*

4:00pm: Precision Lipidomics by Mass Spectrometry: From Lipid Isomeromics to Lipid–Protein Interactions



Professor Xin Yan is an associate professor of chemistry at Texas A&M University and holds the endowed Ray A. Rothrock '77 Faculty Research Fellowship. She earned her Ph.D. in Chemistry with Prof. Graham Cooks from Purdue University and pursued postdoctoral research with Prof. Richard Zare at Stanford University before joining Texas A&M in 2018. Her research focuses on reactive microdroplet mass spectrometry, developing innovative strategies to advance lipidomics and accelerate the discovery of transition metal catalysis. Dr. Yan's work has been recognized with numerous prestigious honors, including the National Science Foundation CAREER award, National Institutes of Health MIRA (Maximizing Investigators' Research Award), Sloan Research Fellowship, ACS Arthur F. Findeis Award, Emerging Innovator Award from the IUPAC, and the ASMS Research Award. As a dedicated educator, she received the Montague Center for Teaching Excellence Scholar Award and the Association of Former Students College-Level Distinguished Teaching Award.

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

On Tuesday, November 17 at 9:00am, **Dr. Richard Crocombe, Crocombe Spectroscopic Consulting**, will receive the New York Society for Applied Spectroscopy Gold Medal Award.



Dr. Richard Crocombe: Since his arrival in the US for a postdoc position at the University of Knoxville, Dr. Crocombe has helped bring numerous instrument concepts from the research stage into reality. His early work at Axsun, Thermo Fisher Scientific, and PerkinElmer led to major developments in their business strategies. In addition to benchtop instrumentation development, Dr. Crocombe has carved out a niche for himself in portable and handheld spectroscopy. Since 2017, he has been working as an independent consultant focused on portable, handheld, and miniature instrument development, commercialization, and market strategy. n addition, Dr. Crocombe has also dedicated much of his time to helping and advocating for the spectroscopy community at large. He has been a co-chair of SPIE's "Next Generation Spectroscopic Technologies" for over ten years and is a Fellow of the SAS, having served as SAS president in 2020. Crocombe was the driving force behind the creation of the "Early Career" membership category at SAS, making it easier for those starting their careers to benefit from joining the society. He was also the inaugural editor-in-chief of Applied Spectroscopy Practica, a journal useful to spectroscopists in industry, government, and academia alike.

2026 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 2026, four undergraduates and four graduate students have been selected based on these criteria to receive EAS Student Awards. The following outstanding students have been chosen from a very worthy field of candidates:

UNDERGRADUATE STUDENTS



Ben Edelman
University of Richmond
Nominated by Prof. Michael Leopold



Sarah Foster
William & Mary
Nominated by Prof. Katelynn Perrault Uptmor

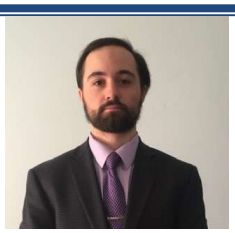


Iris Liebman
Yale University
Nominated by Prof. Stacy Malaker



Ishaan Singh
Purdue University
Nominated by Prof. Jesse Chi Zhang

GRADUATE STUDENTS



Noah Gould
Northeastern University
Nominated by Prof. Alexander Ivanov



Alyssa Moore
Purdue University
Nominated by Prof. Julia Laskin



Karol Woloszyn
New York University
Nominated by Prof. James Canary



Yongqing Yang
New Jersey Institute of Technology
Nominated by Prof. Hao Chen

The Governing Board of the 2026 EAS congratulates these awardees for their outstanding achievements.

The Student Awardees' posters will be presented on Tuesday, November 17, 2026, in the Poster Area on the bridge to the hotel from 11:30am – 12:25pm

2026 EAS Short Course Schedule

Short Courses are an **additional fee** and space is limited; registration is required

Date	Course Title	Instructor(s)
Nov. 15-16	Practical LC-MS/MS Method Development and Sample Preparation	Perry Wang, LC-MS Technical Expert
Nov. 15-16	HPLC and UHPLC for Practicing Scientists 1 and 2: Fundamentals, Method Development, and Troubleshooting	Michael Dong, MWD Consulting
Nov. 15	Analytical Method Validation and Lifecyle Management – FDA, ICH and USP Expectations, Kim Huynh-Ba, Pharmalytik, LLC	Kim Huynh-Ba, Pharmalytik, LLC
Nov. 15	Introduction to Quantitative Spectroscopy for Quality Assurance in the R&D and Manufacturing Environments	Debbie Peru, DP Spectroscopy & Training, LLC
Nov. 15	Chemometrics without Equations (or Hardly Any)	Neal Gallagher, Eigenvector Research
Nov. 15	Supercritical Fluid Chromatography	Larry Miller, Novartis J. David Pinkston, SuperSep Consulting, LLC
Nov. 16	Practical NMR Spectroscopy	Damodaran Achary, University of Pittsburgh
Nov. 16	Getting the most from GC and GC/MS	Gregory Slack, Consultant Nicholas Snow, Seton Hall University
Nov. 16	Sample Preparation for Chromatography	Douglas Raynie, South Dakota State University
Nov. 16	Nitrosamine Risk Assessment and Control for Pharmaceutical Products	Jinjian Zheng, Merck & Co., Inc.
Nov. 17	Best-Practice Data Analysis for Reliable Chromatographic Results	Merlin Bicking, ACCTA, Inc.
Nov. 17	Successfully Implementing Key Elements of the USP and ICH Guidances in an Enhanced Analytical Procedure Development Workflow	Richard Verseput, S-Matrix Corporation
Nov. 18	Systematic HPLC Troubleshooting: A Practical, Case-Study-Driven Approach	Merlin Bicking, ACCTA, Inc.
Nov. 18	Painless Gas Chromatography Bootcamp - Show Your GC Who's Boss	Lee Polite, Axion Analytical Laboratories
Nov. 18	Regulatory Requirements for Therapeutic Peptides	Shreekant Karmarkar, DAT Pharma Consulting
Nov. 17 **½ day PM**	Analytical and Bioanalytical Aspects in ADC Drug Development and Subsequent Regulatory Submission (1:00 PM – 4:30 PM)	Xiaohui (Sophia) Xu, Daiichi Sankyo Zhi Chen, Bristol Myers Squibb

Don't forget your Souvenir!



PICK UP YOUR *EAS TOTE BAG* AT THE SOUVENIR BOOTH LOCATED DOWNSTAIRS IN *WATERFRONT*

CAREER DEVELOPMENT WORKSHOPS

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

"Nobody Told Me this was Part of the Job: Learning as a Career Strategy"

Jan Peters, Ph.D., Principal Scientist, Merck & Co., Inc

Monday, November 16; 12:00 pm – 1:00 pm; Room: Einstein

The transition from formal education into a scientific career often feels like reaching the finish line—when in reality, it's just the starting point. In a rapidly evolving landscape across academia, industry, and government, continuous learning and development is not optional; it is nowadays essential for staying relevant, innovative, and feeling fulfilled.
This interactive session invites early-career and seasoned scientists alike to reflect on how they approach their growth beyond degrees. Through open discussion, shared experiences, and practical examples, we'll explore how to identify skill gaps, adapt to changing environments, and build a mindset of lifelong learning.

The Unwritten Rules of Success: Time, Allies, Productivity—and Yes, Manners

Erin Ennis Ballinger, Ph.D. & Mary Ellen McNally, Ph.D., FMC Corporation

Tuesday, November 17; 12:00 pm – 1:00 pm; Room: Einstein

Success in the analytical sciences increasingly depends not only on technical expertise but also on the ability to navigate complex professional environments with intention and agility. In this interactive workshop, Erin Ennis, Ph.D., and Mary Ellen McNally, Ph.D. will share practical career learnings centered on four critical dimensions of professional effectiveness: time management, productivity, allies, and—often overlooked but essential—manners. from their diverse experiences across industry and professional organizations, the presenters will explore strategies for prioritizing work in high-demand settings, aligning daily activities with long-term goals, and distinguishing between urgency and importance. Attendees will learn approaches to improving productivity without burnout, including planning, boundary-setting, and leveraging everyday actions to support consistent progress. Equally important, the session highlights the role of professional relationships. Participants will learn how to identify, cultivate, and sustain allies. Emphasis will be placed on building authentic connections across hierarchies and disciplines. The workshop will underscore the power of manners as a strategic asset rather than a formality. Small interpersonal interactions—respectful communication, follow-through, and acknowledgment—can significantly influence reputation, trust, and career trajectory. This is not your elevator speech, this is how you behave outside the elevator every day.

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

Gaurav Chopra, Ph.D., Founder & CEO, LINKTON & Purdue University

Wednesday, November 18; 12:00 pm – 1:00 pm; Room: Einstein

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



ALVIN BOBER STUDENT SEMINARS

Pill Coating Experiment: A Hands-On Activity for Students

Sean Wasylyk, Bristol Myers Squib
Tuesday, November 17 from 10:00 am - 12:00 pm for High School Students
Room 207; 2nd Floor

'Pill Coating - chemical engineering challenge' (preferably 3 to 4 students per group). Understand the importance of enteric coating pills & tablets in order to maintain stability of Active Pharmaceutical Ingredient. Bonus activity will include handheld spectrometer demo and discussion of counterfeit pharmaceuticals.

After Ground Zero: Science, Resolve and the Unprecedented Quest to Identify the Missing

Bianca Brandon, Staten Island Technical High School
Scott Rubins, Northeastern Association of Forensic Scientists
Wednesday, November 18, 10:00 am - 12:00 pm for High School Students
Room 207; 2nd Floor

The terrorist attack on the World Trade Center was an immeasurable tragedy that left in its wake one of the most complex mass fatality investigations in history, resulting in a decades-long effort to identify the missing. Forensic DNA testing continues to this day, playing a central role in identifying the victims of this attack.

In this workshop, students will learn the challenges faced during the recovery and how this hindered making positive identifications. The presenters will focus on two types of analysis: comparison of ante mortem (prior to death) and post-mortem dental x-rays; and STR-based forensic DNA testing and kinship analysis, comparing the DNA profiles of victims to those of potential parents in order to make an identification. Students will practice each of these techniques in an interactive series of questions at the end of the session.

Looking for Career Advice?
Join us for SPEED MENTORING!

The Coblentz Society will offer an in-person Speed Mentoring event on Monday, November 16 from 11:45 AM – 1:15 PM on the **Lower Level of the Holiday Inn Express Hotel**. 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.

EMPLOYMENT BUREAU

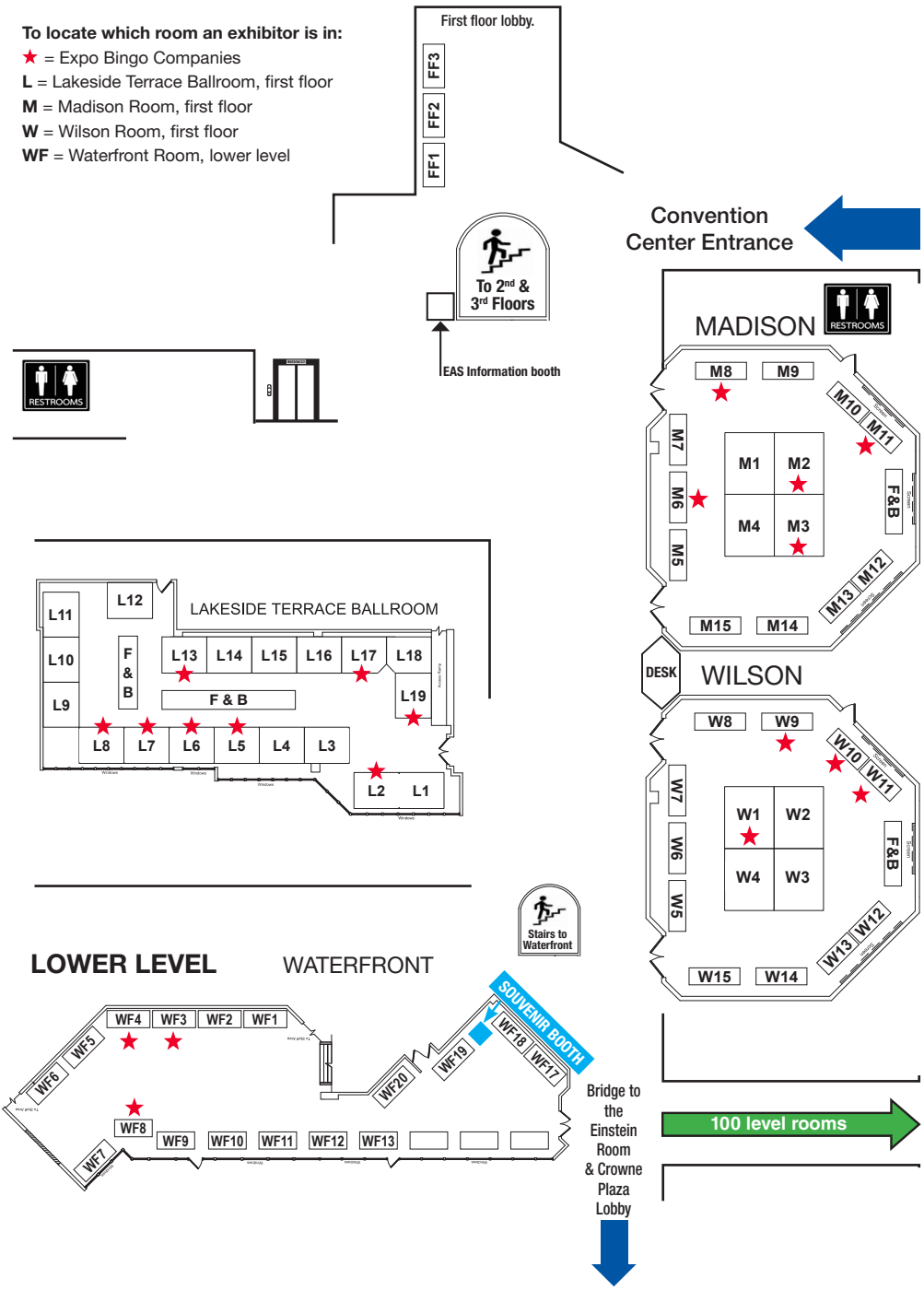
The 2026 EAS Employment Bureau has gone virtual! All EAS attendees who wish to review posted jobs can access them via the Virtual Employment Bureau, which is available on signage throughout the symposium. Exhibitors have QR Code(s) for their specific job posting(s), which are available at their exhibitor 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.

EAS Exhibitors 2026

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AnalytiChem
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Waters Corporation

2026 Exposition Floor Plan

To locate which room an exhibitor is in:
★ = Expo Bingo Companies
L = Lakeside Terrace Ballroom, first floor
M = Madison Room, first floor
W = Wilson Room, first floor
WF = Waterfront Room, lower level



EAS Exhibitors 2026

Monday, November 16th	**10:00 am to 6:30 pm**
Tuesday, November 17th	**10:00 am to 6:00 pm**
Wednesday, November 18th	**10:00 am to 1:00 pm**

Expo Bingo

Each attendee will receive a Bingo card containing the names, locations, and logos of the Expo Bingo participants. By visiting these companies, you will learn more about their products and services. At each exhibitor, receive a sticker to cover that company's logo on your Bingo card. Once you have visited the participating companies and all Bingo squares are covered, turn your Bingo card into the EAS Souvenir Booth, located in the Waterfront Room, to get a special gift. Additionally, your completed Bingo card will also be entered in a grand prize drawing with 3 chances to win. Each winner will have their choice of 1 of 3 prizes: EAS 2027 Registration, a $100 Amazon Gift Card, or a 2027 EAS Short Course (requires EAS Registration). **Participants will also be able to play Expo Bingo using the EAS Mobile App.**

Keynote Reception
Monday, November 16th
5:15 pm - 6:30 pm

Immediately following the Keynote Lecture, EAS invites all registered attendees to join us at the Keynote Reception that takes place in the exposition halls. Take this time to enjoy food and drinks while visiting the exhibits and networking with other attendees. Thank you to S-Matrix for sponsoring the open bar.

Exposition Mixer
Tuesday, November 17th
4:30 pm - 6:00 pm

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

EAS Exhibitors 2026

Demonstration Rooms

Waters Demo Room 109: Experience the Benefits of Pioneering Science

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 to 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

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

Verder Scientific Demo Room 111

Open during exposition hours

Visit our dedicated demo room for live, hands-on demonstrations of advanced analytical technologies for pharmaceutical and materials characterization. Explore solutions for dissolution testing, particle sizing, powder characterization, density, stability, elemental analysis, and related laboratory testing applications.

Our specialists will be available throughout the symposium to demonstrate instrument capabilities, discuss application requirements, and help identify the right solutions for your laboratory. Stop by for one-on-one conversations tailored to your analytical challenges.

Navigate to SOCIAL TIMES IN THE EXPO



COFFEE

10:00 a.m. to 10:30 a.m.
Monday, Tuesday & Wednesday
Sponsored by S-Matrix



SNACKS

2:30 p.m. to 3:00 p.m. Monday & Tuesday
Sponsored by S-Matrix

11:30 a.m. to 12:30 p.m. Wednesday



RECEPTION

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

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

Waterfront, Madison, Wilson & Lakeside Terrace

EAS Exhibitors 2026

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for their continued support of the Eastern Analytical Symposium

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2026 Final Technical Oral Program

To locate which room an exhibitor is in:

L = Lakeside Terrace Ballroom, 1st floor
M = Madison Room, 1st floor
W = Wilson Room, 1st floor
WF = Waterfront Room, lower level

ALMA **WF15**
PO Box 146,
Tenafly, NJ 07670-0146
http://labmanagers.org
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.

Advanced Materials Technology **W10**
3521 Silverside Road, Suite 1-K Quillen Bldg
Wilmington, DE 19810
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http://www.acalgroup.biz
ACG is a thriving service and distribution company focused on providing quality service to analytical laboratories around the country. We provide instrument onsite services, and instrument sales. Our focus is field service of analytical laboratories and instrumentation HPLC - UPLC GC - GCHS – GCMS ICPMS and ICP-OES and AA HEPA filter and Clean Room certifications CHNSO analyzers UVVIS, FTIR, Titrators LCMS Refrigeration services for Stability chambers, Incubators, Refrigerators

American Chemical Society, NY Local Section **WF16**
928 Summit Avenue,
Jersey City, NJ 07307
http://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.

AnalytiChem **W6**
21800 Ave Clark-Graham
Baie d'Urfé, QC H9X4B6, Canada
https://www.analytichem.com/
AnalytiChem was formed through the integration of companies specializing in laboratory applications, combining decades of manufacturing expertise and complementary technologies. We support labs worldwide with equipment, reagents, and consumables designed for precise measurements in analytical chemistry and microbiology. Our portfolio includes culture media, reference materials, and sample prep solutions. With 600+ employees globally, our brands include Redipor, Conostan, OREAS, and AnalytiChem.

Axcend **M5**
3301 N. Thanksgiving Way, Suite 175
Lehi, UT 84048
http://axcendcorp.com
Axcend delivers advanced liquid chromatography solutions, including the Axcend Focus LC®, AutoFocus™, InFocus™, and FocusArray™. These robust, easy-to-use systems provide real-time, accurate data with a small footprint, while reducing operating costs and solvent consumption.

BrightSpec, Inc. **W2**
770 Harris St., Suite 104b
Charlottesville, VA 22903
http://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 **WF17**
170 Oberlin Ave North, Suite 5
Lakewood, NJ 08701
http://www.ceelantech.com
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.

CFDV **WF14**
http://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 **W11**
3501 Tricenter Blvd, Suite C
Durham, NC 27713
http://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.

Daicel Chiral Technologies **W7**
1475 Dunwoody Drive, Suite 310
West Chester, PA 19380
http://www.chiraltech.com
Daicel Chiral Technologies is the world's most trusted source of chiral chromatography solutions for optical isomer separation. Our extensive and expanding portfolio of Daicel chiral stationary phases are the first choice of pharmaceutical R&D and production teams and academic researchers worldwide for unmatched quality, innovation, and performance. We help our customers succeed with expert technical support and customer service, and scalable separation services.

Dissolution Technologies **M8**
9 Yorkridge Trail
Hockessin, DE 19707
http://www.dissolutiontech.com
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.

Distek, Inc. **L18**
121 North Center Dr
North Brunswick, NJ 08902
http://www.distekinc.com
Celebrating 50 years in business, Distek delivers reliable, user-friendly dissolution testing instruments backed by practical innovation and responsive support. The portfolio includes the new OLERA Dissolution Platform, media preparation and dispensing, autosampling, in-situ fiber optic UV analysis, dissolution control software, and validation services—all designed to simplify laboratory workflows, improve productivity, and deliver dependable performance for laboratories worldwide.

Ellab Inc. **M4**
303 E 17th Ave, Suite 10
Denver, CO 80203
https://www.ellab.com/
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.

F-DGSi **M12**
365 Av. De Rio,
lieusaint, 77127 France

http://www.f-dgsi.com
F-DGSi is a French manufacturer of gas generators for laboratory and industrial use. Since 2006, it has designed and produced reliable solutions in France for hydrogen, nitrogen, zero air and liquid nitrogen, offering a safe, sustainable and cost-effective alternative to gas cylinders.

GERSTEL, Inc. **L5**
701 Digital Drive, Ste. J
Linthicum, MD 21090
http://www.gerstelus.com
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.

Green Chemistry Group **WF19**
700 River Ave, Suite 314
Pittsburgh, PA 15212
https://web.cvent.com/event/c7c2ae2f-4756-41b5-b97a-d1a1aa455a03/summary
The Green Chemistry Group was founded in 2007 as a nonprofit organization dedicated to the advancement of SFC and environmentally sustainable chemical research and development worldwide. We organized the first International Conference on SFC, in 2008 in Pittsburgh, PA. Since then we have organized more than 20 conferences throughout the US, Europe, and Asia. Our 2027 meeting is planned for October in Boston, MA.

HORIBA **M14**
20 Knightsbridge Road
Piscataway, NJ 08854
http://www.horiba.com
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.

Innovative Lab Services **WF7**
6909 Columbus Rd.
Granville, OH 43023
https://www.innlabserv.com/about/
Innovative Lab Services is a leading laboratory services company specializing in highly technical repair of analytical instruments as well as laboratory services. ILS has a dedicated team of engineers and clinical scientists professionally trained for installation, maintenance, compliance, validation and other consulting services on lab equipment from numerous manufacturers. Providing multi-vendor analytical instrument service with direct field support across LC/LCMS, GC/GCMS, HPLC, and ICP-MS.

JASCO Inc. **WF8**
28600 Marys Court
Easton, MD 21601
http://jascoinc.com
JASCO: The Japanese Spectroscopy Company has been developing precision instruments for?molecular spectroscopy and chromatography since 1958?within the academic, pharmaceutical, forensics, biotechnology, and industrial markets worldwide. Our spectroscopy line includes FTIR, portable IR, UV-Vis/NIR, Fluorescence, Raman, Polarimetry, & Circular Dichroism. For chromatography, we offer HPLC, UHPLC and SFC.

JEOL USA **L19**
11 Dearborn Rd
Peabody, MA 01960
https://www.jeolusa.com/
JEOL is a global leader in NMR Spectroscopy, Mass Spectrometry (DART/MS, GC/MS, MALDI/MS), and Electron Microscopy (SEMs and TEMs). The JEOL ECZL NMR spectrometer family offers easy to use walk-up user mode. The JEOL ROYAL HFX NMR probe is the only NMR probe to offer no compromise performance for both HX and HFX data collection. The JEOL AccuTOF-DART-4G MS unit also allows walk-up high-resolution MS analysis with no sample preparation. We also offer single quad and triple quad GC/MS systems.

Keyence Corporation of America **WF20**
500 Park Blvd
Itasca, IL 60143
http://www.keyence.com/VHX
KEYENCE's microscope and measurement systems ensure that users can meet quality requirements. High-resolution imaging, ISO-certified roughness, elemental analysis, and 2D/3D measurement combined with easy-to-use interfaces create an elevated inspection experience. We offer on-site demonstrations, sample testing, training, and short lead times to help your processes improve as quickly as possible.

LECO Corporation **L6**
3000 Lakeview Ave
St. Joseph, MI 49085
http://www.leco.com
LECO's instruments resolve the most complex chemistries and deliver complete results using our suite of GC, GCxGC, GCMS, and high-resolution time-of-flight systems. Our unique combination of easy-to-use software and advanced instrumentation provide solutions for today's most demanding industries such as food safety, flavor/fragrance, pharmaceutical, petroleum, environmental, and metabolomics. Visit www.leco.com to learn more about how we can help your solve problems in your lab.

LNI Swissgas **M2**
50 Inwood Rd, Suite 104
Rocky Hill, CT 06067
http://www.lni-swissgas.com
LNI is a multinational specialist in the manufacturing of premium gas generators for on-site hydrogen, zero air and nitrogen gas production, premium gas mixers and premium gas calibrators. LNI is ISO 9001 and ISO 14001 certified. To ensure the highest quality, LNI has received ISO 17025 accreditation of its Gas Flow Standard laboratory.

MAC-MOD Analytical **L10**
103 Commons Court
Chadds Ford, PA 19317
http://www.mac-mod.com
MAC-MOD supplies HPLC/UHPLC columns and accessories to all industries as well as now providing our NEW Monodisperse Fully Porous Particle Columns We also offer safety caps which prevent hazardous materials from evaporating into your lab, keeping you safer. Stop by booth L10 to learn more about our products and application guides or for questions about your toughest separations. We look forward to speaking with you.

MACHEREY-NAGEL Inc. **WF10**
924 Marcon Blvd., Ste 102
Allentown, PA 18109
http://www.mn-net.com/us
MACHEREY-NAGEL provides optimal and reliable solutions for your laboratory work in sample preparation, method development, and routine analysis. Our chromatography product line ranges include SPE, sample filtration, vials & caps, Flash, TLC, GC, and HPLC/UHPLC. Our HPLC/UHPLC products contain ultra-high purity silica phases NUCLEODUR, the established standard silica NUCLEOSIL and the modern Core-Shell material NUCLEOSHELL. Stop by to learn about our products for PFAS analysis.

Martel Instruments LLC **M10**
Unit 9, Stanelaw Way, Tanfield Lea Ind Estate
Stanley, Durham, DH9 9XG, England
http://www.martelinstruments.com
We are an experienced manufacturer helping our clients manage data generated from their devices. With over 40 years of designing products to help with results data management, we have created VIDA Labbox, in consultation with lab managers worldwide. Labbox works to eliminate the fines associated with inaccurate data reports and has recorded 100% accuracy in all lab trials to date. Whether you want to print, store or transfer your results data, we have a solution that meets your exact process.

Metrohm USA **L11**
9250 Camden Field Parkway
Riverview, FL 33578
http://www.metrohm.com
Metrohm offers a complete line of analytical laboratory and process systems for titration, ion chromatography, electrochemistry and spectroscopy. From routine moisture analysis to sophisticated quantification, we are ready to help you develop your method and configure the optimum system. Move your analysis from the lab to the production line with our dedicated process analyzers. At Metrohm we provide systems that find solutions.

MilliporeSigma **WF13**
400 Summit Drive,
Burlington, MA 01801
http://www.milliporesigma.com
MilliporeSigma, the life science business of Merck KGaA, Darmstadt, Germany, is a leading company for innovative and high-tech products in healthcare and life science. MilliporeSigma has created the Supelco® portfolio of best in class analytical products, putting quality and compliance at the forefront to ensure your results are reproducible and accurate. Our robust portfolio of analytical products enable scientist to provide accurate and reliable results, every time.

Molnár-Institute for Appled Chromatography **L3**
Schneegloeckchenstr. 47
Berlin, 10407, Germany
http://www.molnar-institute.com
Founded in 1981, Molnár-Institute develops DryLab®, a software for (U)HPLC modeling for a world-wide market. Its powerful modules allow for the most sophisticated method development as required across pharma industries. Analytical scientists use DryLab to understand a method's chromatographic interactions, reduce runtimes and assess robustness while conforming to Analytical Quality by Design (AQbD) standards.

NJ Bio, Inc. **WF6**
350 Carter Rd
Princeton, NJ 08540
http://www.njbio.com
NJ Bio, Inc. is a U.S.-based CRO/CDMO specializing in integrated chemistry, bioconjugation, analytical, biology, and translational services for ADCs and complex bioconjugates. We support programs from discovery through clinical development with rapid timelines and high-quality outcomes. Our analytical services include method development & validation, product characterization, QC and release testing, stability studies, bioanalysis and impurity profiling.

NanoChrom Technologies (Suzhou) Co., Ltd **W5**
Building NE-37, 99 Jinjihu Ave, Suzhou Industrial Park
Suzhou, 215123, China
http://www.nanochrom.com
NanoChrom Technologies (NanoChrom) is a technology-driven company, specializing in the design, development, and manufacturing of chromatography consumables and related applications. NanoChrom offers a comprehensive chromatography consumables portfolio, for separating small molecules, biologics, and enantiomers. Our solutions cater to a diverse array of industries, including pharmaceuticals, biotechnology, food and beverage, environmental, and chemicals.

New York Microscopical Society **FF3**
c/o John Scott, PO Box 20098
New York, NY 10011
http://www.nyms.org
The New York Microscopical Society (NYMS) was established in 1877 with its mission being the promotion of theoretical and applied microscopy and the promotion of education and interest in all phases of microscopy.

New York/New Jersey Regional Section of SAS **FF2**
Lebanon, NJ 08833
https://www.s-a-s.org/
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 at EAS.

Oakwood Chemical **WF2**
730 Columbia Hwy N
Estill, SC 29918
http://www.oakwoodchemical.com
Oakwood Chemical, a U.S.-based manufacturer and distributor, supplies research chemicals to the pharmaceutical, agrochemical, and materials research communities. Our 30+ years of experience in the research chemicals market has given us a deep understanding of what you need, responsive customer service, reliable supply chains, quality assured products, safe and sensible packaging, reasonable pricing, and prompt and dependable delivery.

Peak Scientific **L16**
210 Littleton Road, Suite 110
Westford, MA 01886
http://www.peakscientific.com/
PEAK Scientific is a global leader in nitrogen and hydrogen gas generators for LC-MS, GC, GC-MS, and other lab applications. We help reduce operational costs, lower environmental impact, and eliminate the hassle of recurring gas supply with reliable in-house gas generation solutions—putting our customers first in everything we do.

PerkinElmer **WF12**
710 Bridgeport Avenue,
Shelton, CT 06484
http://www.perkinelmer.com

Pharm Ops **W9**
101 Broad St.
Phillipsburg, NJ 08865
http://pharmops.com
Pharm Ops is a full-service CDMO specializing in contract development, manufacturing, and analytical testing, with expertise that includes support for Schedule I product development. We produce tablets, capsules, powders, topicals, liquids, and medical devices across all dosage forms, offering services spanning formulation, stability, GMP manufacturing, packaging, storage, and distribution. We partner with startups and emerging companies to transform ideas into high-quality products.

Photothermal Spectroscopy Corp **M7**
325 Chapala St.
Santa Barbara, CA 93101
https://www.photothermal.com/
Photothermal Spectroscopy Corp (PSC) pioneered the breakthrough technique of Optical Photothermal Infrared (O-PTIR) technology eliminating key limitations of traditional IR Spectroscopy providing submicron spatial resolution for IR and transmission-like FTIR quality spectra in non-contact reflection mode. PSC has developed the world's first simultaneous Infrared plus Raman microscope and imaging system, providing IR and Raman data from the same spot, same time, same submicron spatial resolution.

Pursuit Scientific **W13**
900 Ocean Drive, #122
Cape May, NJ 08204
http://pursuitscientific.com
Expert Sample Vial Solutions—Direct from the US Manufacturer. With decades of expertise in glass forming, surface treatments, and precision plastics, we've been the trusted maker behind sample vials used by leading analytical instrument companies. Now we deliver that same premium quality directly to scientists and labs. With expertise in applications and manufacturing, Pursuit Scientific brings premium quality straight to scientists—direct, fast, and without distributor markups.

Regis Technologies **M11**
8210 Austin Ave
Morton Grove, IL 60053
http://www.registech.com
Regis Technologies provides innovative chromatography columns and specialty reagents for the separation scientist. Regis offers high purity derivatizing, ion pairing and buffers, and diagnostic and imaging reagents with proven results for a variety of applications, including drugs of abuse testing. Rely on an experienced manufacturer that prioritizes delivery in days. Visit table M11 to learn more about our full portfolio of specialty reagents and chromatography products

Renishaw, Inc. **M9**
1001 Wesemann Drive
West Dundee, IL 60118
http://www.renishaw.com/raman
Renishaw is a recognized leader in Raman spectroscopy, producing high performance Raman systems for a range of applications. We have decades of experience developing flexible Raman systems that give reliable results, even for the most challenging measurements. Whatever your Raman analysis requirements, Renishaw's teams of scientists and engineers are here to provide you with expert advice, as well as product, technical, and applications support.

Restek Corporation **M6**
110 Benner Circle
Bellefonte, PA 16823
http://www.restek.com
Founded in 1985, we are a leading developer and manufacturer of chromatography columns, sample preparation and collection products, reference standards, and instrument accessories. We work with analysts around the world, providing them with tools to monitor the quality of air, water, soil, foods, botanicals, pharmaceuticals, and chemical and petroleum products. Our customers' work makes the world safer and healthier - we are excited and grateful for the chance to help you make a difference!

Rigaku Americas Corporation **L12**
9009 New Trails Drive
The Woodlands, TX 77381
http://www.rigaku.com
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.

Rudolph Research Analytical **L17**
55 Newburgh Road
Hackettstown, NJ 07840
http://rudolphresearch.com
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

S-Matrix Corporation **W4**
1594 Myrtle Ave
Eureka, CA 95501
http://www.smatrix.com
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.

SCAT Americas Inc. **WF1**
6100 Orr Road
Charlotte, NC 28213
http://www.scalabsafety.com
SCAT Americas provides innovative safety solutions for laboratories, specializing in the safe handling, storage, and disposal of hazardous chemicals. Our products are designed to protect both personnel and the environment, ensuring compliance with safety standards. From solvent waste systems to custom lab safety equipment, we focus on enhancing operational safety and efficiency. With SCAT, you can rely on quality solutions that help maintain a safe and compliant lab environment!

SCIEX **M1**
250 Forest St.
Marlborough, MA 01752
http://www.sciex.com
SCIEX helps to improve the world we live in by enabling scientists and lab analysts find answers to the complex analytical challenges they face. SCIEX's global leadership and world-class service and support in the capillary electrophoresis and liquid chromatography-mass spectrometry industry have made it a trusted partner to thousands of the scientists and lab analysts worldwide who are focused on pharmaceutical drug discovery and development, food and environmental testing, and forensics

SciY **M15**
40 Manning Road
Billerica, MA 01821
http://www.sciy.com
Designed to support your digitalization journey, the SciY Digitalization Suite integrates best-in-class technologies and capabilities originally developed by Mestrelab (including Mnova), Optimal, ZONTAL, Arxspan and LOGS, harmonized within the Bruker ecosystem. The vendor-agnostic platform supports life sciences research, development, manufacturing automation and QC functions – with easy-to-integrate, flexible, and user-centric solutions.

Sciencix, Inc. **WF4**
110 Brady Court
Cary, NC 27511
http://www.sciencix.com
Sciencix is a globally recognized, award-winning business founded in 1985 and is a trusted manufacturer of HPLC & Mass Spec parts that are engineered, tested, and proven as comparable to the top brand OEMs in fit, form, and function for up to 30% less cost. We are ISO9001:2015 certified, and our products are proudly made in the USA and ship same-day from our 28,000 sq. ft. facility in Burnsville, MN to our customers in 100+ countries. We are known as the "Napa Auto Parts" supplier for labs.

Scientech Laboratories, LLC **W8**
107G Corporate Blvd.
South Plainfield, NJ 07080

http://www.scientech-labs.com
Scientech 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. Scientech supports product safety with extractables & leachables, nitrosamines, microbiology, and heavy metals testing.

Sepax Technologies, Inc. **M3**
Booth/Tabletop #: M3
5 Innovation Way
Newark, DE 19711
http://www.sepax-tech.com
Sepax provides advanced chromatography solutions that enable scientists to address complex challenges in biopharmaceutical development. Sepax offers a portfolio of high-performance HPLC columns, resins, and specialty media for both analytical and preparative applications. Our technologies support key modalities, including mAbs, ADCs, peptides, LNPs, and VLPs. We collaborate with researchers and industry leaders to accelerate drug development and improve therapeutic outcomes.

Shimadzu Scientific Instruments, Inc. **L2**
7102 Riverwood Dr.
Columbia, MD 21046
http://www.ssi.shimadzu.com
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.

Situs Light LLC **L1**
130 Catskill Court
Belle Mead, NJ 08502
https://situslight.com/
Situs Light is a photonic company specialized in the development and production of customized, cables, probes, and bundles for scientific, medical, industrial, and space applications across the 0.2–17 µm range. We also design advanced spectroscopic fiber probes for key methods including MID-IR ATR absorption, UV-Vis-NIR transmission and diffuse reflection, Raman, and fluorescence—along with integrated multi-spectral combi-probes and spectrometer-matched probe couplers.

SOTAX **L8**
2400 Computer Drive
Westborough, MA 01581
http://www.sotax.com
Delivering results you can trust, SOTAX solutions are a unique combination of smart testing instruments, powerful data management software that seamlessly integrates into existing IT ecosystems (LIMS / MES / ERP), contract research & outsourcing services by three GMP-certified labs, and 360° instrument lifecycle support. Our instruments, software, and services are at the very heart of mission-critical quality control processes such as dissolution testing and automated sample preparation.

SPECTRO Analytical Instruments **M13**
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Wilmington, MA 01887
http://www.spectro.com
SPECTRO, A Division of AMETEK, is a global leader in Elemental Analysis Spectrometers. SPECTRO offers a full range of ICP-OES, ICP-MS, ED-XRF, Arc-Spark and Hand-Held XRF spectrometers. The SPECTRO ARCOS and SPECTROGREEN ICP-OES models offer unique advantages including reduced argon consumption, no need for an external chiller, and new Dual Side-On Interface plasma viewing that offers twice the sensitivity. Come by and discuss our ICP and XRF spectrometers and visit is at www.spectro.com.

Spectrum Chemical Mfg. Corp. **W12**
769 Jersey Ave
New Brunswick, NJ 08901
http://www.SpectrumChemical.com
Spectrum Chemical has been providing chemical solutions to our customers in the analytical, pharma, biopharma, food tech, and personal care industries for over 50 years. Spectrum Chemical offers over 45,000 chemicals, bulk items, over 1,200 USP-NF-FCC-BP-EP-JP grade chemicals, and bioCERTIFIED™ products for biopharma. All chemicals undergo in-house testing in cGMP-compliant, United States-based facilities. We also distribute laboratory consumables and supply and equipment items.

Springer Nature **WF18**
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System One **WF3**
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https://www.systemone.com/clinical-science/equipment-services/
System One is a single-source provider for equipment services across pharmaceutical, consumer products, chemical manufacturing, and other regulated environments. Our capabilities include equipment validation, calibration, maintenance, asset management, lab relocation and more. All services are backed by our ISO 9001:2015 certified Quality Management System and ISO 17025:2017 Accreditation, giving clients peace of mind with every engagement.

Ted Pella, Inc. **WF9**
4595 Mountain Lakes Blvd
Redding, CA 96003
http://www.tedpella.com
We manufacture and sell instruments and supplies to serve laboratories dedicated to a variety of types of microscopy: Transmission and Scanning Electron Microscopy, Electron Microprobe Analysis, Atomic Force Microscopy, and Light Microscopy. We serve a diverse set of fields including Aerospace, Automotive, Biotechnology, Chemical Engineering, Energy, Food and Beverages, Forensics, Histology, Materials Science, Metallurgy, Nanotechnology, Neurosciences, Pharmaceuticals, and Semiconductors.

The Coblentz Society **FF1**
c/o 1836 Hardman Ave,
Napa, CA 94558-1409
https://www.coblentz.org

Thermo Fisher Scientific **L13**
168 Third Ave
Waltham, MA 02451
http://www.thermofisher.com
Thermo Fisher Scientific is the world leader in serving science. Our mission is to enable our customers to make the world healthier, cleaner & safer. We offer laboratory solutions that incorporate chromatography, mass spectrometry, elemental analysis, software, consumables, & support. Our products are used by scientists across applications & market segments. Every day, they use our powerful platforms to test everything from water to air to medication for their safety to ensure quality of life.

Tosoh Bioscience LLC **W15**
3604 Horizon Drive, Suite 100
King of Prussia, PA 19406
https://separations.us.tosohbioscience.com/home
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.

Trajan Scientific Americas- LPP **L7**
909 Aviation Parkway, Suite 600
Morrisville, NC 27560
https://www.palparts.com/
Trajan LPP helps analytical laboratories keep workflows moving with chromatography products, consumables, and technical support. Our portfolio includes syringes, vials and caps, well plates, tubing, fittings, valves, columns, and instrument parts. Trajan's CHRONECT® automated workstations connect sample preparation with analysis, helping labs reduce manual steps and improve consistency. Explore solutions for reliable analytical workflows at www.palparts.com.

Unchained Labs **L9**
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VELP Scientific, Inc. **L14**
40 Burt Drive - Unit 1,
Deer Park, NY 11729
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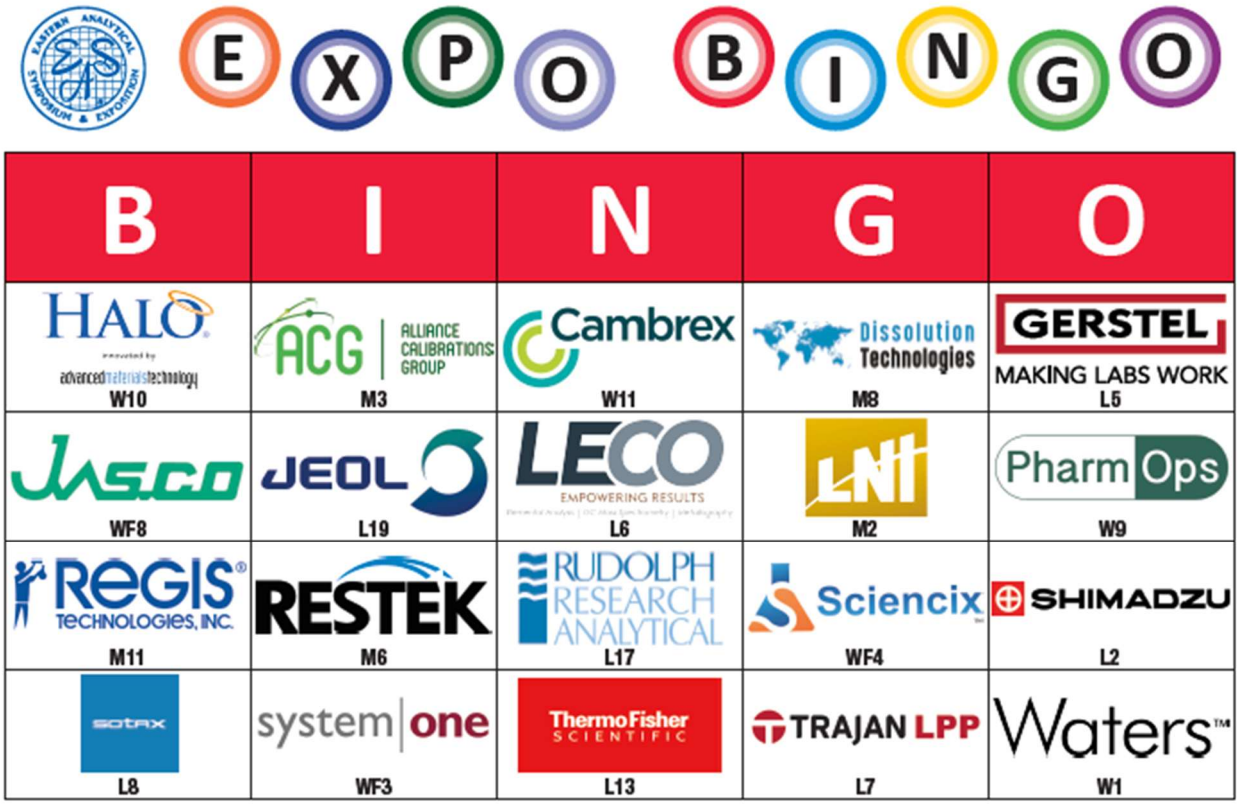
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VUV Analytics **WF11**
Booth/Tabletop #:
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Cedar Park, TX 78613
http://www.vuvanalytics.com
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Verder Scientific Inc. **L15**
11 Penns Trail, Suite 300
Newtown, PA 18940
http://www.verder-scientific.com
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225 Franklin St., Fl. 26.
Boston, MA 02110
http://www.virscidian.com
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http://www.waters.com
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Each attendee will receive a Bingo card containing the names, locations, and logos of the participating Expo Bingo companies. Visit each exhibitor to learn more about their products and services and receive a stamp to cover that company's logo on your Bingo card. Once you have visited all participating companies and each of the Bingo squares are covered, turn your Bingo card into the EAS Souvenir Booth located in the exposition hall to receive a special gift. Your completed Bingo card will also be entered in a grand prize drawing with 3 chances to win.

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Each attendee will download the EAS Mobile App and navigate to the "Play Virtual Expo Bingo!" tab. In the gaming details you will find a list of the exhibitor names and booth locations of the Expo Bingo companies. Visit each exhibitor to learn more about their products and services and scan their QR Code. Once you have visited all the participating companies and your total score is 20, take your cell phone to the EAS Souvenir Booth located in the exposition hall to receive a special gift. Additionally, your name will automatically be entered in a grand prize drawing with 3 chances to win.

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- $100 Amazon Gift Card
- Free 2027 EAS Registration ($450 value)
- Free 2027 EAS Short Course Registration ($900-$1,300 value; requires purchase of EAS Full Conferee Registration)

AUTHOR INDEX

A
Abbott, Sarah 49
Adhikari, Sudeep 252
Affadu-Danful, George 195
Ali, Muhammad 28
Amin, Mohamed 212
Areosa, Nataly 132
Armentrout, Peter 66
Arshad, Aneeta 142
Autry, Chloe 156
Awoyemi, Olanrewaju 173

B
Baker, Christopher 68
Bansal, Anya 228
Barnhart, Wesley 236
Bell, David 53, 177
Berthelette, Kenneth 32, 118
Bielewicz, Levi 129
Bissell, Kristine 264
Blair, Katelyn 268
Bochard, Kira 258
Booksh, Karl 77, 194
Brettell, Thomas 4
Bruno, Pathea 29
Budyak, Ivan L. 109
Bulsiewicz, Alexander 136

C
Calderon, Christopher 14
Caldwell, Jeff 111
Cammarata, Lauryn 170
Champion, William 1
Chan, Julianne 52
Chazukow, Katie 38
Chen, Hao 201
Chen, Kang 206
Chen, Shawn (Xiaoyun) 86
Chen, Yunhua 198
Ciotti, Ralph 137
Cohen, Ryan 270
Colón, Luis 21
Colquhoun, David 140
Cooks, Graham 65
Coon, Joshua 176
Creery, Joe 223
Crocombe, Richard 99
Cross, Kieran 45
Crossley, Kevin 235

D
Daley, Nathaniel 154
Darie, Celeste 63
de Vaumas, René 112
Delgado Cornelio, Fernanda 36
Dhandapani, Ramkumar 134, 240
Dick, Thomas 51
Donais, Mary Kate 100
Dong, Michael 202
Donkor, Elizabeth 76
Donofrio, Nichole 171
Dougherty-Gunsch, Casey 168
Druy, Mark 87
D'Souza, Michelle 266

E
Eckmann, Nolan 169
Edelman, Ben 143
Ely, Zachary 138
Endabetla, Srilatha 106

F
Ferraro, John 54
Fikiet, Marisia 17
Flaiz, Xavier 130
Flax, Raymond 204
Forman, Ari 102
Foster, Sarah 127, 144
Fu, Dan 15

G
Garcia Gonzalez, Ana 39, 164
Gionfriddo, Emanuela 88, 120
Glajch, Joseph 2
Goredema, Paidamoyo 229
Gould, Noah 147
Gregar, Travis 248
Gritti, Fabrice 7, 93
Guiberson, Emma 141
Gunsch, Matthew 46
Guo, Huiyuan 189
Guo, Yong 116

H
Haddad, Abed 184
Hanrahan, Michael 199
Harrison, Dale 69
Hartlein, Thomas 239
Hassan, Yousef 238
Heimann, Jessica 183
Hemida, Mohamed 97
Henson, Summer 231
Hesser, Morgan 56
Hicks, Michael 260
Holmes, Sean 179
Hoskins, Jessica 12
Huang, Haofu 163
Huang, Richard 9
Huls, Nicholas 200
Hunt, Desmond 105

I-J
Ippoliti, Samantha 244
Islam, Syed 48
Jalali, Jacob 90
Jasper, John 210
Ji, Qin 6
Jian, Wenying 8
Jones, Ashanti 230

K
Kahr, Bart 82
Kammrath, Brooke 121, 178
Kapetanakis, Max 218
Kennedy, Haley 155
Keyhani, Nazanin 41
Khatri, Kenny 73
Kinsey, Steven 255
Kinsinger, Christopher 98
Kissell, Lyndsay 19
Kozlova, Natalia 159
Krasnomowitz, Justin 152
Krushinski, Lynn 95

L
Lai, Pin-Kuang 107, 249
Lance, Kevin 44
Larkin, Peter 84
Lavine, Barry 78, 193
Layton, Catharine 42
Leah, Boone 128
Leary, Pauline 101
Lednev, Igor 18
Lee, Suji 243
Lefevre, Tyler 108
Le-McClain, Anh 246
Leng, Mingwan 43
Li, Jie 57
Li, Linting 224
Li, Peng 185
Li, Ryan 234
Liao, Aaron (Shu-Yu) 110
Liebman, Iris 145
Liu, Haibo 167
Lopez, Diego 237
Lou, Hao 250
Lubach, Joe 197
Lurie, Ira122

M
Ma, Lianjia 241
Makaranka, Nikolai 104
Mancuso, Tom 40, 166
Matamoros, Sharon 186
Mathewson, Sophie 151
Maurer, Jonathan 117
Maziarz, Margaret 58, 158
McBee, Joshua 33
McHale, Conner 34
McNally, Mary Ellen 3, 67, 257
Menard, Noah 247
Mendis, Kushani 123
Mihalec, Catherine 172
Moncada, Daniela 131
Moore, Alyssa 25, 148
Morrow, Thomas 227
Muhammad, Marlene 72

N-O
Nair, Lakshmi 254
Nania, Samantha 221
Njoku, Victor 174
Nyhuis, Kevin 215
O'Brien, Madison 267
Oladele, Motunrayo 124
Oxley, Jimmie 71

P
Palenik, Christopher 20
Patel, Siddhi 160
Patzer, Grace 75
Pellegrinelli, Peter 94
Pence, Michael 187
Perrault Uptmor, Katelynn 22, 119
Philips, Laura 13
Ponnusamy, Ettigounder 259

Povelones, Jeff 113
Prabodh, Satyal 114
Praneeth, Joel 162

Q-R

Quan, Yifan 89
Qureshi, Rehan Ali 220
Radcliffe, Ethan 125
Radpour, Roxanne 79
Rahman, Anis 209
Rahn, Kira 208
Reddy Bommana, Divya 103
Rodriguez, Jose Elias 153
Ross, Jaime 190

S

Safavisohi, Reihaneh 139
Samokhvalov, Alexander 232, 233
Sanchez-Melo, M. Isabel 213
Sardana, Dhwani 60
Satyal, Prabodh 37
Schure, Mark 115
Schuster, Stephanie 92
Scialdone, Mark 266
Serrano Izaguirre, Gustavo 133, 135
Sharrer, Kaleb 27, 261
Simpson, Garth 80
Singh, Ishaan 146
Smikle, Raymond 74
Smith, Joseph 196
Sonkar, Kanchan 203, 265
Sotzing, Greg 253
Stell, Alicia 47, 165
Stoll, Dwight 23
Su, Rickey 61
Sun, Bin 217
Sun, Guoyong 242
Sung, Yu-Sheng 161
Sutton, Adam 245

T

Tancredi, Olivia 262
Taraban, Marc 251
Tattrie, Emily 55
Telikepalli, Srivalli 16
Tokarz, Danielle 83
Tomkovich, Kenny 226
Torres, Shaelee 126
Truong, Van 222
Tucker, Eric 207

V

van Breemen, Richard 175
Vatteroni, Marisa 91
Verseput, Richard 30, 35
Viggers, Jared 26
Villanueva-Lopez, Vladimir 11
Voras, Zachary 181

W

Wahab, M. Farooq 70
Wang, Kai 5
Wang, Mark 269
Wang, Meisu 219
Wang, Ying 205
Warner, Genoa 192
Webb, Jackson 225
Weber, Alexis 211
Weina, Virginia 214
Wiggins, Marcie 182
Willets, Katherine 188
Woloszyn, Karol 149
Wustholz, Kristin 263

X-Y

Xiao, Shuo 191
Xu, Fiona Xi 85
Xu, Jinheng 64
Yan, Elsa 81
Yan, Xin 180
Yang, Peilin 24
Yang, Yongqing 150
Yin, Rose 10
Yuan, Jasmine 216
Yuliantoro, Herbi 62

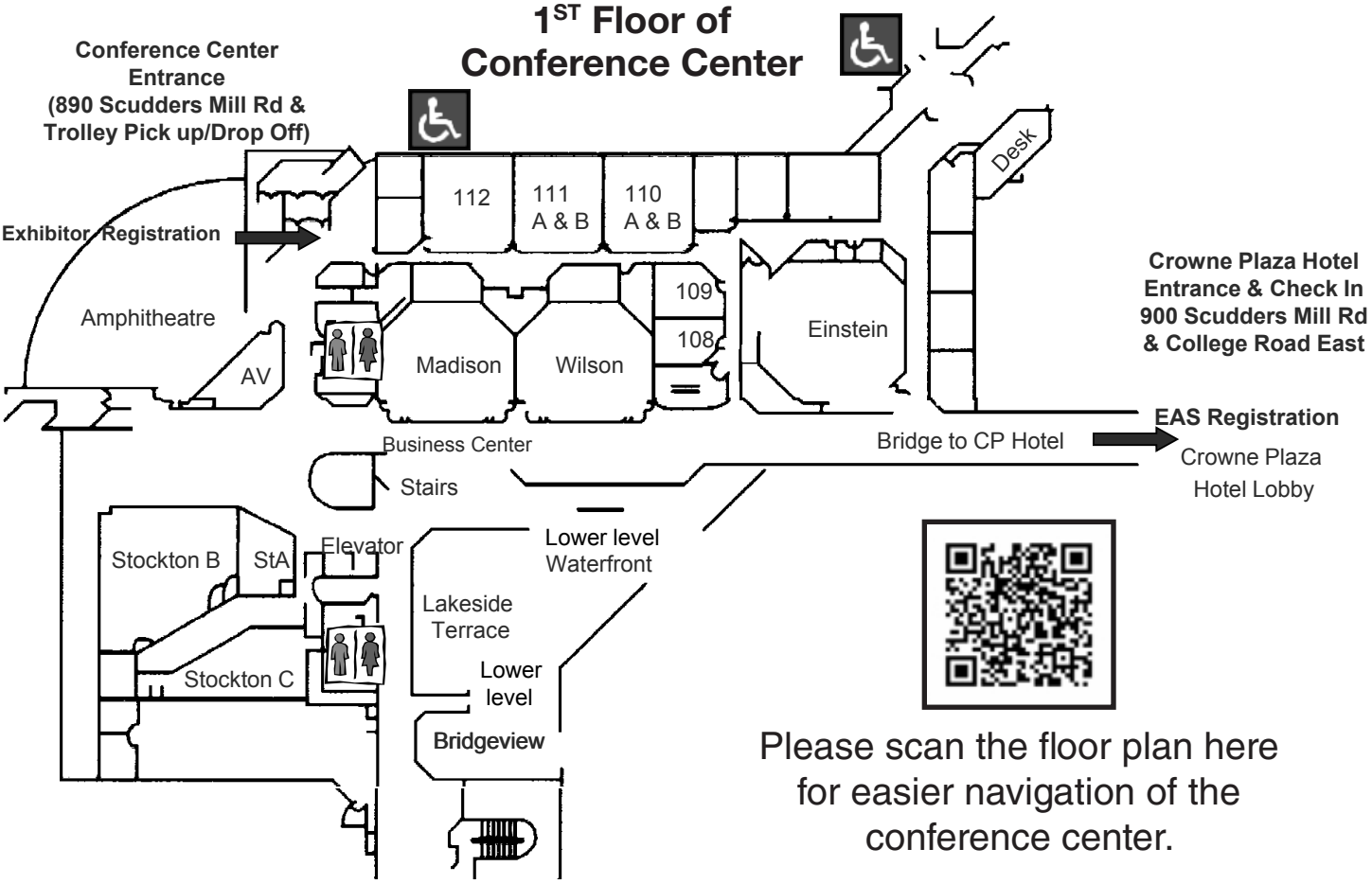
Z

Zhang, Xuyang 157
Zhang, Yinan 59, 96
Zimmermann, Nicolas 50
Zöldhegyi, Arnold 31

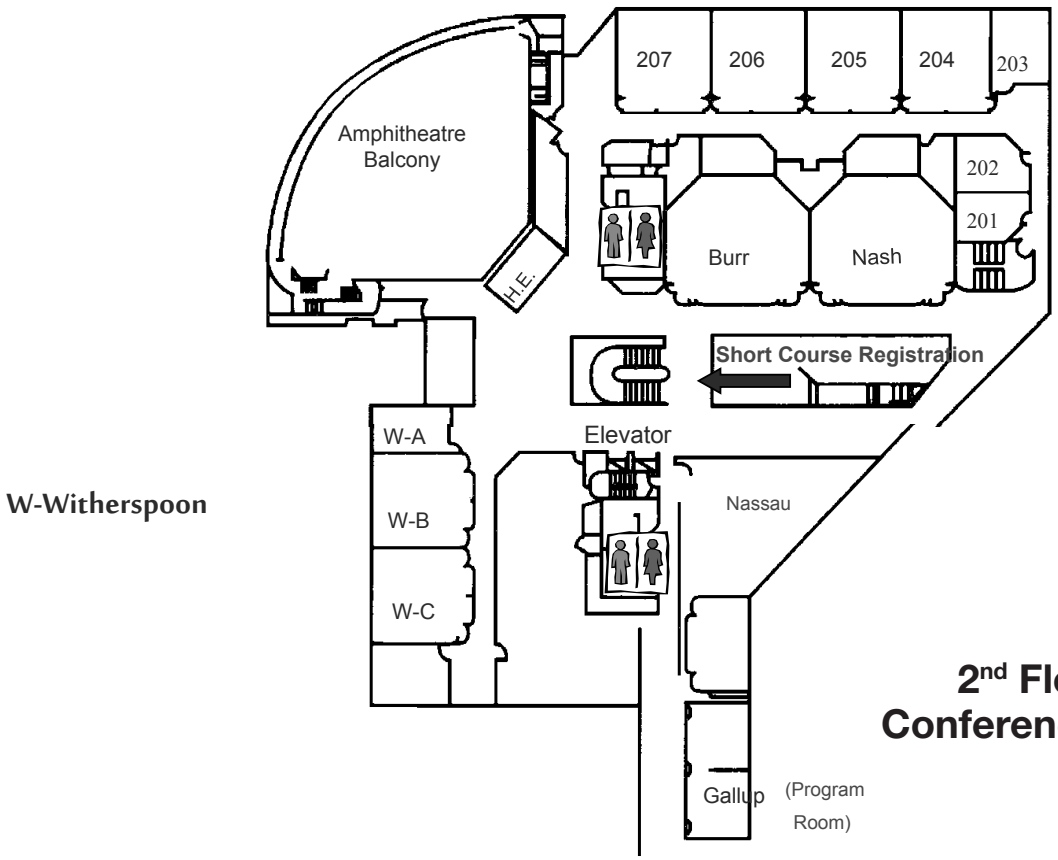


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