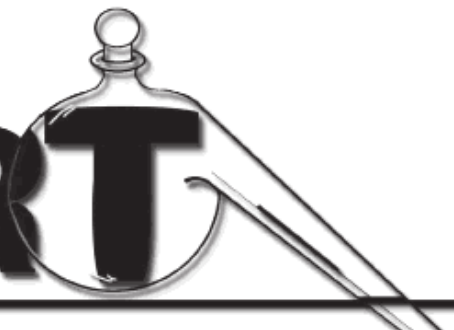




RETORT



March 2024

Newsletter of the Eastern Analytical Symposium & Exposition



November 18-20, 2024

EASTERN ANALYTICAL SYMPOSIUM & EXPOSITION

Partners in Problem Solving

Crowne Plaza Princeton Conference Center, Plainsboro, NJ

TECHNICAL PROGRAM • EXPOSITION • CAREER DEVELOPMENT OPPORTUNITIES



While it was only a few months ago that we celebrated the successful 2023 Eastern Analytical Symposium (EAS), we wanted to let you know that we have been hard at work planning for this year's event. Preparations for the symposium and exposition are well underway with a large, diverse, and dedicated group of volunteers working diligently.

This particular year is of special significance for me personally. I am humbled and honored for this is my second opportunity to be President of EAS. The first of which was 2017, the year we moved to the current facility, the Crowne Plaza Princeton Conference Center. I hope that you will mark your calendars and plan on attending this fall, November 18-20, 2024.

This year our theme is "Partners in Problem Solving" with the focus on how analytical scientists are uniquely positioned to build strong cross-functional partnerships and enable complex solutions through the use of data. One of my favorite related quotes is from Lord Kelvin "... when you cannot measure it, when you cannot express it in numbers, your knowledge is of a meager and unsatisfactory kind." Experimental science relies on our ability to produce and interpret data. The challenges of today are rarely solved by single techniques but are solved through application of complimentary approaches, which makes EAS an ideal place to interact and learn from all areas of analytical science. So whether you want to dive deep in a focused area or broaden your horizons, I'm confident EAS can be part of your game plan.

To that point, and new for us this November, we will offer a celebration of our EAS awards in a combined, all-attendee session designed to bring together and inspire everyone in attendance. We will continue to have exciting Technical Sessions, Short Courses, Workshops, Exposition, and all the other activities throughout the year that you are accustomed to participating in through EAS.

I sincerely hope that you will take the opportunity to join me this November 18-20 and continue to hone your craft as partners in problem solving.

Justin Pennington
EAS 2024 President



TABLE OF CONTENTS

Message from the President.....	1
Invited Technical Sessions.....	2-3
Short Courses.....	3
2024 Awardees.....	4
Student Award Nominations.....	5
Call for Papers.....	6
Virtual Student Symposium	7
Alvin Bober Student Seminars	7
Call for Student Volunrtters	7
Speed Mentoring	8
Workshops & Employment Bureau	8
Exhibiting Companies	9
Sponsors.....	10
Registration & Important Dates	11

2024 EAS Invited Technical Sessions

Note: This is a preliminary list of sessions. Contributed oral and poster sessions will be announced at a later date.

We invite you to plan to join us at the EAS 2024! This is also an invitation to contribute a paper to EAS in your own analytical subject area for review and acceptance. Complementary papers to the topics mentioned below are especially welcome but we encourage all areas of analytical chemistry.

Visit our website for more information about our **Call For Papers** from **March 1 - May 1** for **oral** abstracts and **March 1 - September 1** for **poster** abstracts at www.EAS.org/submit

CHROMATOGRAPHY

- Sustainability: Driving the Next Major Developments in the Analytical Laboratory; *sponsored by the Chromatography Forum of Delaware Valley*
Chair: Mary Ellen McNally, FMC Corporation
- Separations for Therapeutic Oligonucleotides and New Modalities, *sponsored by the Chromatography Forum of Delaware Valley*
Chair: Katie Grinias, GSK
- Predictive Sciences for Chromatographic Method Development
Chair: Pankaj Aggarwal, Merck & Co., Inc.
- High Throughput Analytical Experimentation: An Automated Approach
Chair: Sharon Matamoros, GSK
- New Detection Approaches in Separation Science; *sponsored by the ACS Division of Analytical Chemistry*
Chair: James Grinias, Rowan University
- The Critical Advancing Therapeutics: The Emerging Role of Oligonucleotides in Pharmaceutical Sciences
Chair: Yi He, John Jay College of Criminal Justice

CONSERVATION SCIENCE

- To be announced
Chair: John Scott, NY Conservation Foundation

ENVIRONMENTAL ANALYSIS

- Analytical Chemistry: Studies in Environmental Science
Chair: Alexander Greer, Brooklyn College-CUNY
- PFAS
Chair: Chuck Powley, PFA Solutions

FORENSIC ANALYSIS

- The Research from our Emerging Forensic Scientists
Chair: Monica Joshi, West Chester University of PA; *sponsored by New Jersey Association of Forensic Scientists*
- Leveraging Portable Instrument's to Solve Problems at the Sample Site
Chair: Pauline Leary, NOBLE
- Forensic Microscopy: Fusing Theory & Practice
Chair: Michelle Miranda, SUNY-Farmingdale

LABORATORY MANAGEMENT

- Challenges Managers Face Today
Chair: Dennis Swijter, ALMA

MASS SPECTROMETRY

- Advances in High Throughput Mass Spectrometry in Drug Discovery and Development
Chair: Preeti Mukherjee, Merck & Co., Inc.
- Method Development and Applications of Mass Spectrometry: Bioanalysis
Chair: Anthony Pitts-McCoy, Merck & Co., Inc.

MULTIDISCIPLINARY SCIENCES

- Data-Driven Discovery and Design for Modern Laboratories with Machine Learning and Artificial Intelligence: From Materials Discovery to Process Optimization
Chairs: Caelin Celani, University of Delaware, Michael George, University of Nottingham
- Chemical Data Science: Artificial Intelligence and Machine Learning Applied to Analytical Chemistry
Chair: Barry Lavine, Oklahoma State University

PHARMACEUTICAL ANALYSIS

- Molecular Puzzles: Navigating Analytical Challenges in Peptide, Protein, and Oligonucleotide Drug Products
Chair: Yongchao Su, Merck & Co., Inc.
- Impact of ICH Q14 on the Validation Lifecycle of Analytical Methods
Chairs: Kim Huynh-Ba, Pharmalytik, Isabelle Vu Trieu, Waters Corporation
- Nitrosamines Everywhere - Defining the Risk Level, How to Measure, How to Control
Chair: Leonardo Allian, Merck & Co., Inc.
- From Pixels to Insights: Hyperspectral Techniques in Analytical Chemistry and Biological Imaging Analysis
Chair: Vanessa Castro, Rutgers University

SPECTROSCOPY

- NY/NJ Section of the Society of Applied Spectroscopy Gold Medal Award
Chair: Dana Garcia
- Spectroscopy at Interfaces
Chair: Kenneth Knappenberger, Jr., Pennsylvania State University
- The Very Latest Capabilities in Atomic Spectrometry
Chair: Steven Ray, University of Buffalo
- Sub-Micron Infrared and Raman Spectromicroscopy
Chair: Samuel Tenney, Brookhaven National Laboratory
- Pushing the Boundaries of Structure Elucidation
Chair: Sloan Ayers, Bristol Myers Squibb

2024 SPECIAL EAS AWARD SESSION

EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN THE FIELDS OF ANALYTICAL CHEMISTRY

Honoring Jeanne Pemberton, University of Arizona

EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN SEPARATION SCIENCE

Honoring Nelu Grinberg

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EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN MASS SPECTROMETRY

Honoring Benjamin A. Garcia, Washington University-St. Louis

Sponsored by

RESTEK

EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN MAGNETIC RESONANCE

Honoring Rachel Martin, University of CA - Irvine

Sponsored by



EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN VIBRATIONAL SPECTROSCOPY

Honoring Igor Lednev, University at Albany

EAS YOUNG INVESTIGATOR AWARD

Honoring Ariel Furst, Massachusetts Institute of Technology

In-Person & Online Short Courses

EAS's 2024 in-person short courses will be offered November 17-20, 2024 at the Crowne Plaza Conference Center in Princeton, NJ. We will offer a variety of our courses online throughout the year.

The short course program has long been an integral part of EAS and provides a valuable service to both students and professionals who seek to refine or augment their scientific development. The Short Course committee strives to offer high caliber courses that align with EAS's mission and can include fundamental analytical techniques and principles, novel technologies and regulatory affairs. EAS short courses are designed to help the practicing analyst develop new skills and enhance knowledge and offer excellent content for new employees to get up to speed fast. Taught by experts, the short courses emphasize practical knowledge of a variety of important topics to help one keep current with best practices and new techniques. Whether you want to learn a new analytical technology, understand new regulations, explore an analytical field, or just brush up new concepts in your area of expertise, there is a course for you. EAS's short courses emphasize: A wide range of topics; interactive discussions; case studies for illustration; and practical and problem solving tips.

"The instructors were passionate on the subject they were teaching, and the interactions with the class were great. The class size was not overwhelmed so it was comfortable for the attendees to have enough time to ask questions."
2023 SC attendee.

Stay tuned for more details!

Brooke Kamrath
2024 Short Course Chair

[FREE WEBINAR SERIES]

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Overview

Join our webinar series as we explore the pressing analytical challenges of our time. Each episode will feature short presentations by distinguished panelists from the USP, leading industry partners and Waters Corporation and a moderated panel discussion.

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- Enhanced Method Development
- Impurity Profile Characterization
- Nitrosamine Impurities
- Monoclonal Antibodies Characterization
- Analysis of Complex Excipients

Speakers Include

- US Pharmacopeia: Amanda Guiraldelli, Edmond Biba, Christian Zeine, Joshua Bhattacharaya, Niomi Peckham, Anni Chang, Naiffer Romero, Peng Zhang
- Leading industry partners: Richard Verseput, S-Matrix Corporation
- Waters Corporation: Catharine Layton, Neil Lander, Henry Foddy, Fadi Alkhateeb, Marian Twohig

Scan the QR code or visit the link to view the topics and dates for this 2024 series.



www.waters.com/WatersUSP2024

TIME

1:00PM - 2:00PM EST

DATES

February - December 2024

ON24 WEBINAR SERIES

Questions? Additional
Information? Contact:

Isabelle_VuTrieu@waters.com

EAS Awards Program

Suzanne Schreyer, 2024 EAS Awards Chair

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



Professor Jeanne Pemberton
University of Arizona
*EAS Award for Outstanding
Achievements in the Fields of
Analytical Chemistry*



Professor Rachel Martin
University of California-Irvine
*EAS Award for Outstanding
Achievements in Magnetic Resonance*



Professor Igor Lednev
University of Albany
*EAS Award for Outstanding
Achievements in Vibrational
Spectroscopy*



Professor Nelu Grinberg
Retired
*EAS Award for Outstanding
Achievements in Separation Science*



Professor Benjamin Garcia
Washington University-St. Louis
*EAS Award for Outstanding
Achievements in Mass Spectroscopy*



Professor Ariel Furst
Massachusetts Institute of Technology
EAS Young Investigator Award

These other awards will be presented at the Annual Symposium in November under the auspices of the EAS Sponsoring Organizations

Awardee to be announced

*NY/NJ Section of the Society for Applied
Spectroscopy Gold Medal Award*

EAS Awards are selected by independent juries of experts in these respective fields from nominations received by the Award Committee from the scientific community at large. Each award consists of an honorarium, travel expenses to EAS, a plaque, and the opportunity for the Awardee to present their work at EAS at an Award Symposium in their honor. Visit our website for full biographies of Awardees. Persons wishing to make a nomination for any of the awards given by EAS should send complete documentation of the candidate (content of the nomination package detailed on the EAS website) electronically to: awards@eas.org. The deadline for all 2025 award nominations is September 1, 2024.

2024 EAS Undergraduate Student Award Nominations

The Eastern Analytical Symposium and Exhibition annually offers awards to recognize and encourage scientific promise and research talent in several under-graduate chemistry students. Each college may nominate one student who will be a senior in November of 2024. Nominate one of your students!

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

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

Student's postal and e-mail addresses for both the current spring semester and the summer. Nominations are due by **April 30, 2024**, and should be submitted by e-mail to student.awards@eas.org

2024 EAS Graduate Student Research Awards

EAS will be offering an award to graduate students to encourage and reward students who show outstanding talent for scientific research. This award will be open to graduate students who have been significantly involved in a research project at the graduate level for approximately a year or more, and who will not have graduated by the 2024 Fall semester. Nominate one of your students!

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

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

Nominations are due by **April 30, 2024**, and should be submitted by e-mail to grad.awards@eas.org



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CALL FOR PAPERS

November 18–20, 2024

EASTERN ANALYTICAL SYMPOSIUM & EXPOSITION

Partners in Problem Solving

Crowne Plaza Princeton Conference Center, Plainsboro, NJ

**EAS invites YOU to be a part of the Technical Program next year.
Contribute a paper for oral or poster consideration via our website:**

Online submission opens March 1:

www.eas.org/asubmit

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

Bioanalysis
Bioinformatics
Biotechnology
Cannabinoid Analysis
Capillary Electrophoresis
Cell and Gene Therapy
Chemometrics/Data Mining/Artificial Intelligence
Chiral Separation
Conservation Science
Counterfeit Analysis
Electrochemistry
Environmental Analysis
Extractables and Leachables Analysis
Food Analysis
Forensic Analysis
Gas Chromatography

Green Chemistry
HPLC/UHPLC
HPTLC (thin-layer chromatography)
ICP/MS
Immunochemistry
Ion Chromatography
Lab Automation
Lab Management
Lab Miniaturization
Large Molecules/Oligonucleotides
LC/MS, GC/MS
Mass Spectrometry
Microfluidics
Microscopy
Nanotechnology
Nitrosamines
PFAS

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Portable Instrumentation
Process Analytical Science
Proteomics & Metabolomics
Quality/Regulatory/Compliance
Quality-by-Design
Sample Preparation
Science Education
Sensors
Size Exclusion Chromatography
Solid State Analysis
Spectroscopy - Atomic
Spectroscopy - NMR
Spectroscopy - Vibrational
Supercritical Fluid Chromatography
Surface Science

2024 Virtual Student Symposium (VSS)

Call for Papers & Registration Opens March 1st

The EAS-VSS is a student-centered virtual symposium designed specifically for student needs. We offer the ability to present your cutting edge research to an audience of peers and experts over a convenient virtual format, avoiding the need of travel funds to still present your research, network, and add a line to your resume. In addition to presentation experience, the EAS-VSS also offers a networking hour to chat either alone or in breakout rooms with an array of analytical chemistry professionals spanning industry and academia. The best part about the EAS-VSS? It's **FREE** to present, it's free to attend, and it allows you to simultaneously present your research virtually AND submit a poster abstract to EAS 2024 (optional).

Let's get into some of the logistics:

Who can present? Students - both undergraduate and graduate

What is the presentation format? Slides or a poster, accompanied by an oral presentation

How long are presentations? 10-15 minutes plus 5-10 minutes for audience Q&A (20 minute time slots)

When is the EAS-VSS? **May 20**, 10:00 am - 4:00 pm EDT (end time tentative)

When are abstracts due? May 10, 11:59:59 pm

Who can register? Anyone! This includes: your peers, your PI, your family, etc.

Where can I submit an abstract? www.eas.org/asubmit

Where do I register? [Click here](#) to register for FREE

Who should I contact for more information? EAS Student Reps: Yongling Ai, yongling.ai@eas.org, or Vanessa Castro, vc496@scarletmail.rutgers.edu

2024 Alvin Bober Student Seminars

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

On Sunday, November 17th, EAS will hold a Professional Development Seminar catered towards high school teachers. Additionally, EAS will present two Outreach Seminars intended for high school / collegiate students during the conference. The seminars will focus on concepts intended to improve STEM outreach and will be taught by recognized industry and academia leaders in Chemistry.

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

Please contact Eastern Analytical Symposium for questions at askeas@eas.org or visit our website at EAS.org for more information.

Lasangi Dhanapala
Seminar Chair

Call for Student Volunteers

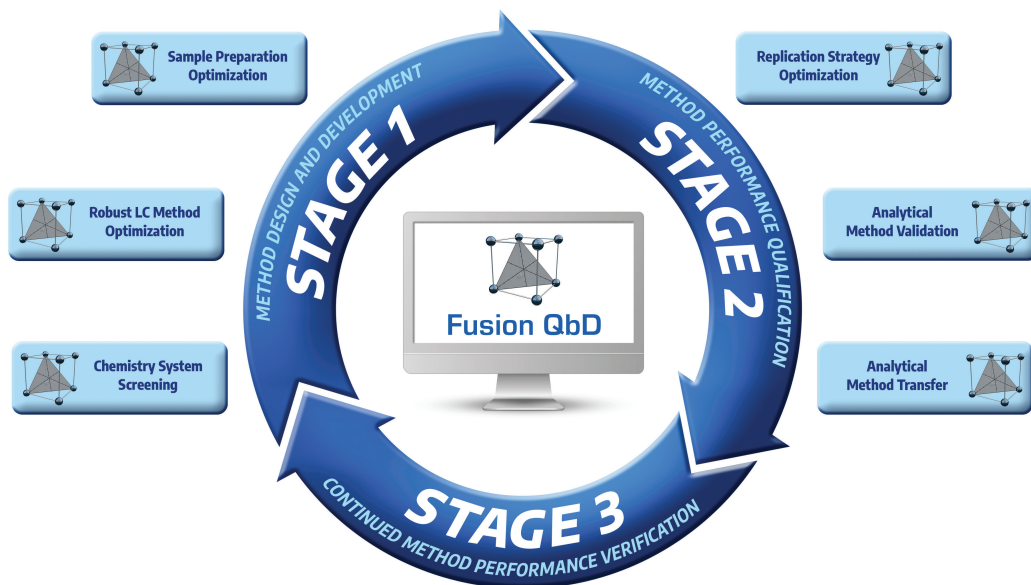
Are you a high school, undergraduate, or graduate student looking to get involved?

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

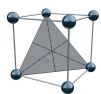
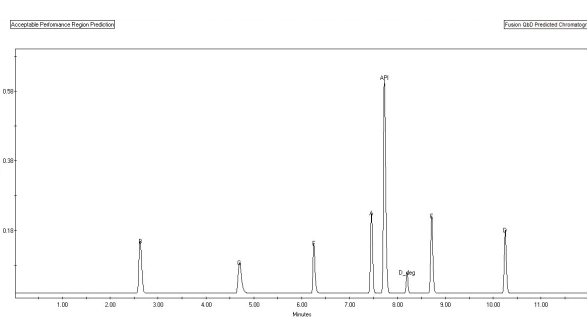
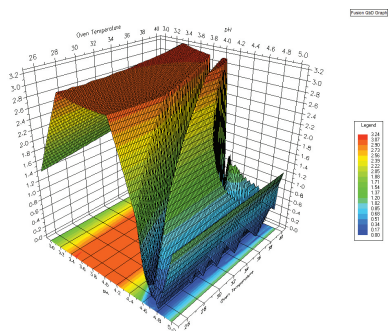
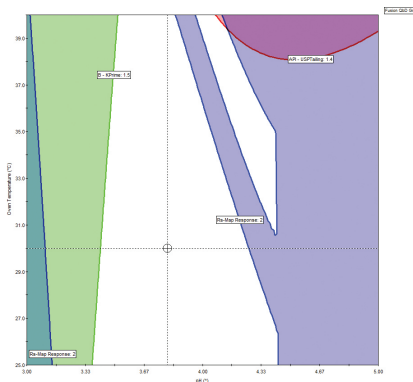
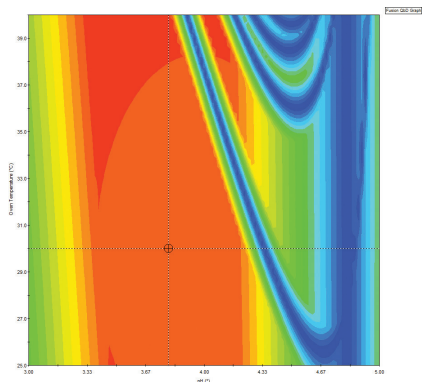
If you're interested in volunteering or have questions, email Caelin Celani at celanicp@eas.org, Student or Bernadette Taylor (askeas@eas.org)!

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Speed Mentoring at EAS

This year the Coblenz Society is bringing their Speed Mentoring activity to EAS!

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

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



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

These interactions can be the basis of an ongoing mentoring relationship, if that is of interest, and is a wonderful networking opportunity for job hunting or just getting a better understanding of life in various industries, government labs, and academic institutions. It's also a way for chemists to give back to the community by sharing your experiences. Mentors and mentees must register for the Eastern Analytical Symposium & Exposition. As part of the online registration process, you will need to respond to the question asking if you want to be a mentor or a mentee. Speed Mentoring will be offered one time only and will run approximately 1.5 hours in length; date/time to be announced. Space is limited and we encourage you to register in advance. Formal registration for EAS will open in July.

2024 EAS Workshops

EAS is committed to your professional development, no matter what stage of your career you are in. Whether you are looking to enhance your knowledge, develop your professional skills, or present your background and relevant experience to attract a specific audience, EAS has a workshop that will meet your needs. In today's workplace, the use of social media sites is an important component of networking and having the skills to navigate them is essential to career success. EAS Workshops, which are free to all registered attendees, are the place to begin, or continue, to develop these skills. Workshop descriptions and registration details will be posted on the EAS website in early June - stay tuned!

Employment Bureau

The EAS Employment Bureau, which is free to all registered attendees, is offered for those seeking employment. It is available to provide the opportunity for employees to view job postings and to correspond with prospective employers.

Kimberly Gorel
Employment & Workshop Chair

2024 EAS Exhibitors

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Anton Paar
Bettersize Technologies Co.
Ltd.
CAMAG Scientific, Inc.
DAICEL Chiral Technologies
Dissolution Technologies
GERSTEL, Inc.
HORIBA Scientific
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Lazar Scientific, Inc.
LECO Corporation
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S-Matrix Corporation
SCAT Americas Inc.
SCIEX
Shimadzu Scientific
Instruments, Inc.
SOTAX
Spectrum Chemical Mfg.
Corp.
Tecan
Ted Pella, Inc.
Thermo Fisher Scientific
Waters Corporation
Welch Materials, Inc.
Xylem Lab Solutions



We still have a few booth and tabletop spaces available.

For more information, please contact Janine Kishbaugh at exposition@eas.org.

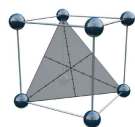
2024 EAS Exhibitors

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SOTAX

2024 Registration Types & Rates	Before	After
	Oct. 15	Oct. 15
Full Conferee	\$300	\$450
Exposition/Networking/Posters ONLY	\$125	\$125
Wednesday Only Full Conferee <i>(available onsite only on Nov. 20)</i>		\$150
Full-Time Student Conferee	\$50	\$50
High School Student with Seminar <i>(must register for a seminar)</i>	\$0	\$0
One-Day Short Course <i>(must register as Full Conferee in order to take course)</i>	\$650	\$900
One-Day Short Course - Student Rate <i>(must be a Full-Time Student in order to take course at Student Rate)</i>	\$100	\$425
Two-Day Short Course <i>(must register as Full Conferee in order to take course)</i>	\$950	\$1,300
Two-Day Short Course - Student Rate <i>(must be a Full-Time Student in order to take course at Student Rate)</i>	\$200	\$625
ONLINE Short Course Registration Fees* Two (2) hour course	\$125	\$200
ONLINE Short Course Registration Fees* Full Day course	\$650	\$900
ONLINE Short Course Registration Fees FULL-Time Student* Full Day course <i>(must be a Full-Time Student in order to take course at Student Rate)</i>	\$100	\$425

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

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

2024 EAS

November 18-20, 2024

Plainsboro, NJ

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 Immediate Former President: Frank Romano, Agilent Technologies
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Janine Kishbaugh at exposition@eas.org

EXECUTIVE SECRETARY

Bernadette Taylor at askeas@eas.org

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IMPORTANT DATES

March 1	Abstract submission opens for contributed oral & poster Papers for November & the Virtual Student Symposium (VSS)
May 1	Abstract submission deadline for contributed oral papers
May 1	Deadline to submit a poster for the Virtual Student Symposium
May 8	EAS Virtual Student Symposium (Free)
June 15	Presenters of invited presentations are contacted by email with session schedules & instructions for the submission of final abstracts
July 1	Presenters of contributed oral presentations are contacted by email with session schedules & presentation guidelines
July 15	Registration opens
July 31	Deadline for submission of final abstracts for invited presentations
Aug. 1	Preliminary Program posted on www.EAS.org
Sept. 4	Abstract submission deadline for contributed posters
Oct. 15	Deadline to register for 2023 EAS at a reduced price
Nov. 18-20	The 63rd Eastern Analytical Symposium & Exposition

How to contact us....

General Information
EAS Executive Secretary and Retort Editor
Eastern Analytical Symposium, Inc.
 PO Box 185
 Spring Lake, NJ 07762
 Email: askeas@eas.org

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