The year 2017 begins a new journey for EAS with our move to the Crowne Plaza Princeton - Conference Center in Plainsboro, NJ. We are very grateful for the past 25 years in Somerset, have many fond memories of the times we spent, and truly are appreciative of the consistency it afforded. However, over the past few years we have consistently heard feedback from our exhibitors and conferees that the facility no longer met the needs for EAS and that there was a desire to have the symposium under one roof. It has been years in the making and we are very excited to have identified the Crowne Plaza Princeton Conference Center which will allow us to have the entirety of the symposium (Exposition, Technical Program, and Short Courses) under one roof in a modern updated facility. Our hope is that there will be an increase in the level of interactions between conferees, speakers, exhibitors, and short course attendees. Please make sure to let everyone know about our change of venue.

The theme for EAS this year is “Building our Analytical Future” and hopefully you will recognize our desire to continue building Eastern Analytical Symposium into the premier analytical symposium. The theme design revolves around a blueprint, and as such, we are designing our program to offer a “blueprint” to the future of both EAS and analytical science as a whole. Our Plenary lecture on Monday will be given by our 2017 EAS Award for Outstanding Achievements in the Fields of Analytical Chemistry, Prof. Janusz Pawliszyn from the University of Waterloo. The lecture is open to all registered EAS attendees and all are encouraged to attend. Our Awards committee, led by Cecil Dybwowski, is continuing the tradition of presenting awards to distinguished leaders in multiple areas of the analytical disciplines. The invited program is taking shape as shown in the following sections (pages 3-6) and we encourage everyone to submit their oral and poster presentations for consideration. As you have come to expect, EAS 2017 will continue to offer an impressive assortment of Short Courses, Workshops, and Exhibitors; see the following pages for more details.

We hope that you will take the opportunity to build your analytical future alongside Eastern Analytical Symposium. I look forward to interacting with all of you both online and in person in Princeton, NJ this November 13-15.

Justin Pennington
EAS President

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2017 Registration Rates

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<tr>
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<th>After</th>
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<tbody>
<tr>
<td>Full Conferee</td>
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EAS is pleased to announce that recipient of the EAS Award for Outstanding Achievements in the Fields of Analytical Chemistry Prof. Janusz Pawliszyn, University of Waterloo will be the Plenary Speaker for EAS 2017.

The primary focus of Professor Pawliszyn’s research program is the design of highly automated and integrated instrumentation for the isolation of analytes from complex matrices and the subsequent separation, identification and determination of these species. The primary separation tools used by his group are gas chromatography, liquid chromatography and capillary electrophoresis coupled to a variety of detection systems, including a range of mass spectrometry techniques. Currently his research is focusing on elimination of organic solvents from the sample preparation step to facilitate on-site monitoring and in-vivo analysis. Several alternative techniques to solvent extraction are investigated including use of coated fibers, packed needles, membranes and supercritical fluids. Dr. Pawliszyn is exploring application of computational and modeling techniques to enhance performance of sample preparation, chromatographic separations and detection. The major area of his interest involves the development and application of imaging detection techniques for microcolumn chromatography, capillary electrophoresis and microchip separation devices. Visit our website for Prof. Pawliszyn’s full biography.

Join us to hear Prof. Pawliszyn’s plenary address:

Monday, November 13, 2017, 4:30 pm

The lecture will be immediately followed by a reception; all registered attendees of EAS are encouraged to attend.
### AWARD SESSIONS

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

**Sponsored by Bristol-Myers Squibb**

**Honoring Janusz Pawliszyn, University of Waterloo**
Chair: Nicholas Snow, Seton Hall University

**Growing Up with SPME**, Nicholas Snow, Seton Hall University

**Providing Rugged Methodology for Regulated Industries**, Mary Ellen McNally, DuPont Crop Protection

**Whole-Column Imaged Capillary Isoelectric Focusing (cIEF): From Academic Idea to Industrial Gold Standard**, Jiaqi Wu, Protein Simple

**Medical and Pharmaceutical Applications of Solid Phase Microextraction**, Barbara Bojko, Nicolaus Copernicus University

**EAS YOUNG INVESTIGATOR AWARD**

**Recent Advances in 2D-LC, Part 1: Fundamentals, Instrumentation, and Column Technology**

**Honoring Dwight Stoll, Gustavus Adolphus College**
Chair: William Barber

**Moving into the Mainstream – Reflections on Recent Developments in Two-Dimensional Liquid Chromatography**, Dwight Stoll, Gustavus Adolphus College

**Three-Dimensional and Higher Dimensional Separations**, Mark Schure, Kroungold Analytical

**Recent Developments in Active Temperature Control for Improved Chromatographic Performance**, Stephen Groskreutz, University of Pittsburgh

**A Research Adventure Behind Vacuum-Jacketed Chromatographic Columns: Curiosity, Theory, Development, and Applications**, Fabrice Gritti, Waters

**EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN CHEMOMETRICS**

**Sponsored by Eigenvector Research**

**Honoring Barry Lavine, Oklahoma State University**
Chair: Steven Brown, University of Delaware

**Mapping Polyethylene Reactor and Product Space Using Multivariable Analysis of Digital Distributions**, Paul DesLauriers, Chevron Phillips Chemical Company

**Stacking the Deck in Calibration: Better Models and Better Transfers with Stacked Calibration Methods**, Steven Brown, University of Delaware

**Investigation of Meteor and Meteor Impact Samples by Raman Spectroscopy and Multivariate Curve Resolution**, Karl Booksh, University of Delaware

**Multivariate Curve Resolution, Genetic Algorithms and Cross Correlation Library Searching in the Forensic Examination of Automotive Paints**, Barry Lavine, Oklahoma State University

### AWARD SESSIONS

**EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN MAGNETIC RESONANCE**

**Sponsored by Bruker BioSpin and New Era Enterprises**

**Honoring Bernhard Blümich, RWTH Aachen University**
Chair: Songi Han, University of CA-Santa Barbara

**Shrinking NMR: From the Laboratory Floor via the Tabletop to the Pocket?**, Bernhard Blümich, RWTH Aachen University

**Compact NMR in Clinical Diagnostics**, David Cistola, Texas Tech University

**Automation of NMR with Machine Learning**, Yi-Qiao Song, Schlumberger-Doll Research

**Structure and Function in Metal Organic Frameworks are Informed by Portable Magnet Relaxometry**, Thanks to Bernhard Blümich, Jeffrey Reimer, University of California-Berkeley

**EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN SEPARATION SCIENCES**

**Sponsored by Agilent Technologies**

**Honoring Christopher Welch, Welch Innovation, LLC**
Chair: Mirlinda Biba, Merck & Co.

**The Practice and Consequences of Ultrafast LC and SFC**, Daniel Armstrong, University of Texas-Arlington

**High-Speed Enantioselective Chromatography as the Second Dimension in Multiple Heart-Cutting and Comprehensive 2D-RPLC Analysis**, Erik Regalado, Merck & Co.


**Recent Progress and Emerging Challenges in Pharmaceutical Separation Science**, Christopher Welch, Welch Innovation, LLC

**EAS AWARD FOR OUTSTANDING ACHIEVEMENTS IN MASS SPECTROMETRY**

**Honoring Scott McLuckey, Purdue University**
Chair: Alice Pilo, Merck & Co.

**Gas-Phase Ion/Ion Reactions: Oxidation and the Dehydroalanine Effect**, Alice Pilo, Merck & Co.

**Top-Down Proteomics for Clinical Assay Development**, James Stephenson, Thermo Fisher Scientific

**Characterization and Optimization of Ion Trapping Fields in Toroidal Coordinates**, Stephen Lammert, PerkinElmer

**The Study of Protein Folding and Unfolding via Theta-Tip Nano-Electrospray Ionization**, Scott McLuckey, Purdue University
## 2017 EAS Invited Technical Sessions
### Preliminary List as of April 21, 2017

### AWARD SESSION
#### NEW YORK SECTION OF THE SOCIETY OF APPLIED SPECTROSCOPY GOLD MEDAL AWARD
Honoring: Richard Van Duyne, Northwestern University
Chair: Kathryn Lee, rap-ID

*Nanoscale Chemical Imaging with Tip-Enhanced Raman Spectroscopy, Richard Van Duyne, Northwestern University*

*Translating SERS into a Robust Detection Platform for Uranium in Complex Matrices, Amanda Haes, University of Iowa*

*Polymer-Enabled Analytical SERS Sensing, Christy L. Haynes, University of Minnesota*

* Imaging Mass Spectrometry on the Nanoscale with Cluster Ion Beams, Nick Winograd, Penn State University*

### AMERICAN MICROCHEMICAL SOCIETY
#### BENEDETTI PICHLER AWARD
Honoring: Somenath Mitra, NJ Institute of Technology
Chair: Robert Vetrecin

/session speakers to be announced/

### BIOANALYSIS

**Analysis of Peptides and Proteins in Biological Samples in Support of Drug Discovery and Development**
Chair: Wenyong Jian, Janssen

*Analytical Strategies and Challenges for Peptide Quantification Using LC-MS/MS in Support of GLP TK and Clinical PK Studies, Yang Xu, Merck & Co.*

*Assessing Drug-Target Engagement in Tissue Biopsies, Eugene Ciccimaro Jr., Bristol-Myers Squibb*

*Considerations for Assay Platform and Reagent Selection to Quantify Endogenous Protein Biomarker; a FGF21 Case Study, Yue Zhao, Bristol-Myers Squibb*

*Subunit-Level Analyses of Monoclonal Antibodies from In-Life Samples: A Whole-Molecule LC-MS Method for Quantitation, Quality Attributes, and Biotransformation, John Kellie, GlaxoSmithKline*

### VIBRATIONAL CHARACTERISTICS OF BIOLOGICS
Chair: Anna Luczak, Varsha.Ganesh, Bristol-Myers Squibb

*Plaque Detection Using Resonance Raman Spectroscopy, Robert Alfano, City University of New York*

*Concomitant Raman Spectroscopy and Dynamic Light Scattering for Therapeutic Protein Characterization, Chen Zhou, Eli Lilly*

*Use of Raman and Raman Optical Activity for the Structural Characterization of a Therapeutic Monoclonal Antibody Formulation Subjected to Heat Stress, Geetha Thiagarajan, Merck & Co.*

*Ligand-Receptor Binding Investigated by Tip-Enhanced Raman Spectroscopy, Lifu Xiao, University of Notre Dame*

*Vibrational Spectroscopic Imaging Applications to Investigate Exogenous Agent Perturbation and Spatial Distribution in Skin, Qihong Zhang, Rutgers University*

### CHROMATOGRAPHY

**Recent Advances in 2D-LC, Part 2: Solving Real-World Problems in the Pharmaceutical and Chemical Industries, sponsored by the Chromatography Forum of the Delaware Valley**
Chair: William Barber

*Fast Chiral Chromatography as the Second Dimension in 2D HPLC, Christopher Welch, Welch Innovation, LLC*

*Characterization of Synthetic Polymers Using Ultra-high Pressure Two-Dimensional Liquid Chromatography, Lu Bai, Dow Chemical*

*Expanding the Biologics CMC Analytical Toolkit with Two Dimensional Liquid Chromatography, Douglas Richardson, Merck & Co.*

*Application of 2D-LC-MS in Real-World Pharmaceutical Analysis, Cadapakam (CJ) Venkatramani, Genentech*

**Building the Future in Sample Preparation with Young Investigators, sponsored by the Chromatography Forum of the Delaware Valley**
Chair: Mary Ellen McNally, DuPont Crop Protection

*Improving Metabolite Coverage in Untargeted LC-MS Metabolomics, Dajana Vuckovic, Concordia University*

*Advances in Bioanalytical Sample Preparation, Jared Anderson, Iowa State University*

*The Role of Sample Preparation in Precision Medicine, Marcel Musteata, Albany College of Pharmacy and Health Sciences*

*What’s the Matter with Sample Prep? Novel Approaches and Solutions, Roy Helmy, Merck & Co.*

**Emerging Frontiers in High-Throughput Analysis for Process Research & Development**
Chair: Wes Schafer, Merck & Co.

*Enabling High-Throughput Experimentation through High-Throughput Analysis, Wes Schafer, Merck & Co.*

*Reactivity-Based High-Throughput Analysis of Heavy Metals, Kazunori Koide, University of Pittsburgh*

*Asymmetric Reaction Screening with Chiroptical Sensors, Christian Wolf, Georgetown University*

### CULTURAL HERITAGE
Organized by the New York Conservation Foundation

**Vibration Science and Technology in Cultural Heritage I**
Chair: William Wei, Netherlands Institute for Cultural Heritage

*Session speakers to be announced*

**Vibration Science and Technology in Cultural Heritage II**
Chair: Andrew Lins, Philadelphia Museum of Art

*Session speakers to be announced*

**Vibration Science and Technology in Cultural Heritage III**
Chair: William Wei, Netherlands Institute for Cultural Heritage

*Session speakers to be announced*

**Vibration Science and Technology in Cultural Heritage IV**
Chair: John Scott, New York Conservation Foundation

*Session speakers to be announced*
2017 EAS Invited Technical Sessions
Preliminary List as of April 21, 2017

ENVIRONMENTAL ANALYSIS

The Challenge of Testing for Mutagenic Impurities While Considering the Total Exposure
Chairs: James Stuart, University of Connecticut, Landon Greene, Bristol-Myers Squibb
Capturing Chemical Exposures: The Exposome and Human Health, Gary Miller, Emory University
Early Life Exposure to Environmental Chemicals and Health Trajectories, Manish Arora, Icahn School of Medicine at Mount Sinai
Volatile Genotoxic Impurity Determination in Oligonucleotide API at Sub-ppm Level, Dora Visky, Celgene Corporation
Novel Approaches to Identify Metabolite-Related Mutagenic Reactions, James Rusling, University of Connecticut
Monitoring Water Pollution to Prevent Future Flints
Chair: Satinder Ahuja, Ahuja Consulting
Impact of Flint Water Crisis on Public Safety, Ni Zhu, Virginia Tech
Combined Effect of Warming and Pollutants on Sex Determination, Bethany Decourten, University of North Carolina-Wilmington
Coal Use as a Cause of Water Quality Impairment, Larry Cahoon, University of North Carolina-Wilmington
Sustainable Pathways to Metals Contamination, Rakesh Sharma, Delhi University
Quality Data for Monitoring Pollution and Climate Change, organized by The Coblentz Society
Chair: Brandye Smith-Goettler, Merck & Co.
Simulation of the Entire Pathway from Atmospheric CO2 into Oceans into Microalgal Biomass, Frank Vogt, University of Tennessee
Exploring the Multidimensionality of High-Resolution Photoluminescence Spectroscopy for the Environmental Analysis of Polycyclic Aromatic Compounds, Andres Campiglia, University of Central Florida

FORENSIC ANALYSIS

Cannabionoids
Chair: Michelle Peace, Virginia Commonwealth University
The Natural State, Aron Lichtman, Virginia Commonwealth University
The Evolution of Synthetic Cannabinoids, Aron Lichtman, Virginia Commonwealth University
These Aren't Your Grandfather's Cannabinoids, Justin Poklis, Virginia Commonwealth University
Today’s Marijuana and MJ Products, Michelle Peace, Virginia Commonwealth University
Breaking Bad Chemistry: The Forensic Response to Clandestine Labs
Chair: Thomas Blackwell, US Drug Enforcement Administration
Clandestine Labs: A Walk Though Time, Ed Kovacs, US Drug Enforcement Administration
Chemistry of Clandestine Labs, Jarrod Wagner, Oklahoma State University

FORENSIC ANALYSIS (continued)

Research from our Emerging Forensic Scientists
Chair: Monica Joshi, West Chester University
Session speakers to be announced

LABORATORY ANALYSIS

In- or Out-Sourcing. That is the Question
Chair: Dennis Swijter, ALMA
Comparative Review of Keeping Special Microbiology in a Hospital Lab vs. Out-Sourcing to Reference Labs, Margaret Blaetz, Best Care Laboratories
Lab Workload Strategies: The In-Sourcing vs. Outsourcing Question, Kelley Copeland, Pace Analytical
Learnings from the 2016 National Burn Repository Report, Pascual Laguerra, Cintas Corporation, Brian Foy, DuPont
Best Ways to Interact with an Outsourcing Partner, Scott Hanton, Intertek

MASS SPECTROMETRY

Desorption Mass Spectrometry
Chair: Barbara Larsen, DuPont
Fundamentals and Applications of Matrix-Assisted Ionization: Zerp Energy Input Ionization, Charles McEwen, University of Sciences
Imaging Mass Spectrometry in Drug Development: Visualizing Tissue with a Molecular Lens, Reid Groseclose, GlaxoSmithKline
Improving Quantitation through a Fundamental Understanding of the MALDI Sample Preparation Process, Kevin Owens, Drexel University
Industrial Applications of Bruker™ MALDI-TOF Biotyper™ for Micro-organism Identification Suzanne Singles, DuPont

Innovations and Applications in Mass Spectrometric Analysis
Chair: Jim Shen, Bristol-Myers Squibb
Mechanistic Study of the Gas-Phase In-Source Hofmann Elimination of Doubly Quaternized Cinchona-Alkaloid Based Phase-Transfer Catalysts by (+)-Electrospray Ionization/Tandem Mass Spectrometry, Huaming Sheng, Merck & Co.
Implementation of an Agilent 6230B LC-TOF for the Dual Work Flow HRMS Analysis of ADCs and Small Molecules in a Walk-Up Environment, Michael Peddicord, Bristol-Myers Squibb

MICROSCOPY

Forensic Microscopy XI "What is it? Who does it?"
Chair: Thomas Kubic, John Jay College
The Forensic Microscopy of Dyed Beaver Furs, Michelle Miranda, SUNY - Farmingdale
Microscopy of Explosives, Peter Diaczuk, Penn State University
Forensic Analysis of Blue Glass Chips by Microspectroscopy and X-Ray Spectroscopy, Tiffany J. Millet, John Jay College, Mircea Comnenescu, Graduate Center - City University of New York
More Micro Raman Spectroscopy of Organic Gun Shot Residues and Explosive Residues, Jennifer Leonard, Graduate Center - City University of New York
### MICROSCOPY continued

**Industrial Applications of Atomic Force Microscopy (AFM)**

Chairs: Amanda Mann, Matthew Lamm, Merck & Co.

- Oil Reservoir Properties at the Nano-Scale: Using AFM in a Bulk Characterization Industry, Shannon Eichmann, Aramco Services Company
- Atomic Force Microscopy of Polymer Systems: From Morphology to Properties to Chemical Imaging and Spectroscopy, Gregory Meyers, Dow Chemical
- AFM in Pharmaceutical Formulation Development, Matthew Lamm, Merck & Co.
- Atomic Force Microscopy and Nano-IR Characterization of Composites, William Haseltine, Solvay

**NMR SPECTROSCOPY**

**Solid-State NMR of Natural Products: Life without Labels**

Chair: Youngchao Su, Merck & Co.

- Nanometer-Scale NMR Characterization of Functional Polymer Systems and Pharmaceutical Dispersions, Klaus Schmidt-Rohr, Brandeis University
- Electron Decoupling with Dynamic Nuclear Polarization and Frequency Tunable Gyrotrons, Alexander Barnes, Washington University-St. Louis
- *Multinuclear Quantitative Solid-state NMR of Crystalline and Disordered Pharmaceutical Solids*, Joe Lubach, Genentech
- Solid-State NMR Crystallography of Pharmaceuticals Utilizing Proton-Detected Techniques under Ultrafast Spinning, Xingyu Lu, Merck & Co.

**New Frontiers in Solid Analysis Spectroscopy**

Chair: Lydia Breckenridge, Bristol-Myers Squibb

- Laser Induced Breakdown Spectrometry vs. X-Ray Fluorescence, Sharla Wood, Bristol-Myers Squibb
- Nuclear Magnetic Resonance, Yongchao Su, Merck & Co.
- Laser Induced Breakdown Spectrometry/Laser Ablation, Matthieu Baudelet, University of Central Florida
- Matrix-Assisted Laser Desorption Ionization, Sarah Trimpin, Wayne State University

**NMR Small Molecules**

Chair: Dewey Barich, GlaxoSmithKline

Session speakers to be announced

### PHARMACEUTICAL ANALYSIS

**Challenges of Lifecycle Management for Method Validation**

Chairs: Kim Huynh-Ba, Pharmalytik and Karen Lucas, Janssen

- Lifecycle Management of Analytical Methods for Cleaning Verification Support, Mariann Neverovitch, Bristol-Myers Squibb
- Lifecycle Management: USP Perspectives, Gregory Martin, Comptectors Consulting

**Analytical Challenges in Assessment of Drug Formulation Performance and In-Vitro Drug Release**

Chair: Xujin Lu, Bristol-Myers Squibb

- Dissolution Testing from Biorelevant to Quality Control - Challenges and Gaps, Jian-Hwa Han, Abbvie
- Linking Dissolution Method Development and Clinical Relevance – When is a Method Appropriately Discriminating, Andre Hermans, Merck & Co.
- Using In-Vitro Dissolution to Support Post Approval Changes - Global Regulatory Expectatio, Amy Bu, Bristol-Myers Squibb
- Bridging Biopredictive and QC Methods - Framework and Approaches, David Curran, GlaxoSmithKline

**SPECTROSCOPY**

**Spectroscopic Applications of PAT in the Field of Biologics and Vaccines, organized by The Coblentz Society**

Chair: Brandye Smith-Goettler, Merck & Co.

- Process Control Using Real Time Molecular Weight Light Scattering, Bhumit Patel, Merck & Co.
- Raman-Based Nutrient and Metabolite Control in Bioprocessing Optimizes Product Quality and Peak Viable Cell Density, Karen Esmonde-White, Kaiser Optical Systems
- To be announced, John Bobiak, Bristol-Myers Squibb

**Spectroscopy for Counterfeit Detection, organized by The Coblentz Society**

Chair: Brandye Smith-Goettler, Merck & Co.

- Determination of Adulterated Neem and Flaxseed Oil Compositions by FTIR Spectroscopy and Multivariate Regression Analysis, Sayo Fakayode, North Carolina A&T State University
- Field-Deployable Applications of Raman Spectroscopy for Screening of Unapproved and Counterfeit, Jason Rodriguez, US Food & Drug Administration

**Ultrasensitive Spectroscopy, organized by NY/NJ SAS**

Chair: Gene Hall, Rutgers University

Session speakers to be announced
EAS short courses are designed to help the practicing analyst develop new skills and enhance knowledge. 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 of a new analytical technology, understand new regulations, explore a new analytical field, or just brush up a new concept in your area of expertise, there is a course for you. EAS will be offering half-day, one-day and two-day courses.

**Mariann Neverovitch, 2017 Short Course Chair**

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<tr>
<td>2-day</td>
<td>Modern HPLC/UHPLC for Practicing Scientists Part 1 &amp;/or Part 2: Fundamentals, Best Practices &amp; Applications (NEW!)</td>
<td>Dr. Michael W. Dong, MWD Consulting</td>
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<tr>
<td>2-day</td>
<td>Quality by Design (QbD): A New Paradigm for the Analytical Laboratory Part 1 &amp;/or Part 2</td>
<td>Dr. Zenaida Otero Gephardt, Rowan University</td>
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<td>2-day</td>
<td>Practical Gas Chromatography</td>
<td>Dr. Eugene Barry, University of Massachusetts Dr. Thomas Brettell, Cedar Crest College</td>
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<td>2-day</td>
<td>Troubleshooting Chromatographic Systems</td>
<td>Dr. Merlin K.L. Bicking, ACCTA, Inc. Dr. Douglas E. Raynie, SD State University</td>
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<tr>
<td>2-day</td>
<td>LC/MS: Theory, Instruments, and Applications</td>
<td>Dr. Guodong Chen, Bristol-Myers Squibb Dr. Ragu Ramanathan, Pfizer</td>
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<td>2-day</td>
<td>How to Develop Validated HPLC Methods: Rational Design with Practical Statistics and Troubleshooting</td>
<td>Dr. Brian Bidingmeye, Analytical Acumen Inc. Dr. Stanley Deming, Statistical Designs</td>
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<tr>
<td>2-day</td>
<td>Chemometrics without Equations Part 1 &amp;/or Part 2</td>
<td>Dr. Donald Dahlberg, Lebanon Valley College Dr. Neal Gallagher, Eigenvector</td>
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<td>1-day</td>
<td>PAT/QbD: Enhancing Effectiveness in the Analytical Laboratory (NEW)</td>
<td>Dr. Zenaida Otero Gephardt, Rowan University</td>
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<td>1-day</td>
<td>Analytical Development for Generics and Over-the-Counter Products (NEW)</td>
<td>Dr. Satinder Ahuja, Ahuja Consulting</td>
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<td>1-day</td>
<td>A Systematic Way for Analytical Chemists to Prepare for a Quality Audit or Regulatory Inspection (NEW)</td>
<td>Ms. Kim Huynh-Ba, Pharmalytik</td>
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<td>1-day</td>
<td>Update on New Analytical Requirements of USP General Chapters (NEW)</td>
<td>Mr. Gregory Martin, Complectors Consulting</td>
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<tr>
<td>1-day</td>
<td>Introduction to Atomic Force Microscopy (AFM) for Industrial Applications (NEW)</td>
<td>Dr. Dalia Yablon, SurfaceChar</td>
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<tr>
<td>1-day</td>
<td>Introduction to Basic Light and Electron Microscopy for Pharmaceutical Industry Quality Scientists (NEW)</td>
<td>Dr. Thomas Kubic, TAKA Instructional Agency</td>
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<td>1-day</td>
<td>Evaluation of Trace / Ultratrace Impurities in Pharmaceuticals (NEW)</td>
<td>Dr. Satinder Ahuja, Ahuja Consulting</td>
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<td>1-day</td>
<td>Getting the most from GC and GC/MS</td>
<td>Dr. Gregory Slack, Clarkson University Dr. Nicholas Snow, Seton Hall University</td>
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<tr>
<td>1-day</td>
<td>Interpretation of Mass Spectra with Practical Solutions to Problems</td>
<td>Dr. Mike Lee, Milestone Development</td>
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<tr>
<td>1-day</td>
<td>Introduction to GLP Regulations and Bioanalytical Method Validation by LC-MS/MS</td>
<td>Dr. Perry Wang, LC-MS Technical Expert</td>
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<tr>
<td>1-day</td>
<td>LC-MS Method Development for Small Molecule Pharmaceuticals</td>
<td>Dr. Perry Wang, LC-MS Technical Expert</td>
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<tr>
<td>1-day</td>
<td>Keeping Your Analytical Procedures in Compliance with the FDA: Validation, Documentation, Investigation</td>
<td>Ms. Kim Huynh-Ba, Pharmalytik</td>
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<tr>
<td>1-day</td>
<td>Introduction to Vibrational Spectroscopy for Real Time Analysis</td>
<td>Dr. John M. Wasylyk, Bristol-Myers Squibb Dr. Peter J. Larkin</td>
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<tr>
<td>1-day</td>
<td>The Chemistry of Drug Degradation</td>
<td>Dr. Gregory Sluggett, Pfizer Dr. Todd Zelesky, Pfizer Dr. Shane Eisenbeis, Pfizer</td>
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<tr>
<td>1-day</td>
<td>Lifecycle Approach to Analytical Methods: Incorporating QbD Concepts into Method Development, Validation, Verification and Transfer</td>
<td>Mr. Gregory Martin, Complectors Consulting</td>
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<tr>
<td>1-day</td>
<td>Two-Dimensional Liquid Chromatography for Pharmaceutical Analysis</td>
<td>Dr. Dwight Stoll, Gustavus Adolphus College</td>
</tr>
<tr>
<td>½ -day</td>
<td>Introduction to Drug Discovery/Development Process (NEW)</td>
<td>Dr. Michael W. Dong, MWD Consulting</td>
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2017 EAS Workshops & Employment Bureau

EAS is committed to your professional development, as well as the enhancement of knowledge. Our workshops include topics to help develop your professional skills, as well as to hone other skills critical for career success. These workshops such as "Recruiters' Secrets for Winning the Interview," and "Optimize your LinkedIn® Profile for the Best & Most Opportunities," will provide insight into the best techniques for presenting your background and relevant experience using both social media and traditional resume formats. **NEW for this year – Update your LinkedIn Photo** as part of the LinkedIn Workshop!! Pre-registration and a nominal fee are required – register early, attendance is limited!

Skills such as these are essential today, and EAS is the place to begin or continue developing them. We offer workshops each day, and this year’s selection is outstanding! Workshop descriptions and registration details will be posted on the EAS website in early June -stay tuned!

An **Employment Bureau** is available to provide ample opportunity for employees to meet prospective employers. The Employment Bureau is free to all registered attendees. Visit our website for more details and job seeker forms. www.EAS.org

**Sue Evans Norris**
Workshop & Employment Bureau Chair

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**Undergraduate and Graduate Student Awards**

EAS annually offers awards to recognize and encourage scientific promise and research talent in **undergraduate chemistry students**. The awardees should be students who are already involved in research, in the field of analytical chemistry.

EAS will also be offering an award to **GRADUATE 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 a minimum of a year, and who will not have graduated by the Fall 2017 semester.

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 students will receive free full-conferee registration for the EAS.

All nominations are due by **April 30, 2017** and should be submitted by e-mail to **student.awards@eas.org** or **grad.awards@eas.org**. Visit our website for details on how to nominate an undergrad and graduate student.

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**2017 Student Seminars**

The Eastern Analytical Symposium has an Outreach Program for high school chemistry and science teachers, collegiate undergraduates, as well as high school students.

On Sunday, November 12th, EAS will hold a **Free** professional development seminar offered exclusively to **high school teachers** on **POGIL Introductory Workshop for High School Science Teachers**.

EAS will also offer one Outreach Seminar each day, Monday, November 13 through Wednesday, November 15 for college undergraduate students and high school students. Each seminar will have recognized leaders from academia and industry presenting perspectives on careers in chemistry and fields of interest. More details on these seminars will be available in June.

Registration for the Outreach Seminars is required to reserve a space. High school students attending with their teacher may register for a Seminar for free. Information on seminar descriptions and schedules will be posted on our website as soon as they are finalized. Registration will open in early July.

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

**Shirley Fischer-Drowos**
Seminar 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.

Prof. Janusz Pawliszyn
University of Waterloo
EAS Award for Outstanding Achievements in the Fields of Analytical Chemistry

Prof. Bernhard Blümich
RWTH Aachen University
EAS Award for Outstanding Achievements in Magnetic Resonance

Prof. Barry Lavine
Oklahoma State University
EAS Award for Outstanding Achievements in Chemometrics

Dr. Christopher Welch
Welch Innovation, LLC
EAS Award for Outstanding Achievements in Separation Science

Prof. Scott McLuckey
Purdue University
EAS Award for Outstanding Achievements in Mass Spectroscopy

Prof. Dwight Stoll
Gustavus Adolphus College
EAS Young Investigator Award

Two other awards will be presented at the Annual Symposium in November under the auspices of the EAS sponsoring organizations

Prof. Richard Van Duyne
Northwestern University
NY/NJ Section of the Society for Applied Spectroscopy
Gold Medal Award

Dr. Somenath Mitra
NJ Institute of Technology
American Microchemical Society
Benedetti-Pichler 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 or by the jury members. Each award consists of an honorarium, travel expenses to EAS, a plaque, and the opportunity for the Awardee to present his or her work at EAS at an Award Symposium in his/her honor. Visit our website for full biographies for each Awardee.

Persons wishing to make a nomination for any of the awards given by EAS should send complete documentation of the candidate (nominating letter summarizing achievements, curriculum vita or resume, a statement of the nominee’s willingness to present an address as part of an EAS Award Symposium, and arrange for at least one seconding letter) electronically (single PDF file is preferred) to: awards@eas.org The length of the nomination packet should be commensurate with the nominee’s accomplishments, but should be limited to six to eight pages. The deadline for all 2018 award nominations is September 1, 2017.
Visitors to the 2017 Eastern Analytical Symposium & Exposition will experience a meeting deliberately choreographed to maximize interaction between meeting attendees and exhibitors. Having the exposition, technical program, short courses, workshops, employment bureau, and seminars all under one roof will allow attendees to flow easily from one function to another, making productive use of their time at the show.

Our newly reconfigured registration area will make obtaining your badge and registration materials quick and painless. Once you have received your badge and meeting materials, you will discover the exposition a few steps away in four separate rooms. The Lakeside Terrace Ballroom on the right side of the hall, and the Madison, Wilson, and Einstein rooms on the other side, all contain a mixture of standard booths and tabletop displays allowing attendees to easily move from one exhibitor to another. The 25 booths and 65 tabletop displays (see preliminary list of Exhibiting Companies on next page) represent a major departure from previous years when almost all exhibitors were in standard booths located in one large exhibit space. This new arrangement provides a relaxed environment for attendees and exhibitors to interact and discuss analytical instrumentation, products, services, and supplies. Instrument demo rooms, hospitality suites, and exhibitor seminar rooms are conveniently located in rooms on the first, second, and third floors of the conference center easily accessible to both exhibitors and attendees. Networking events like the Plenary Lecture and mixer on Monday afternoon and a mixer on Tuesday afternoon will allow everyone, attendees and exhibitors alike, to benefit from the relaxed environment, discovering practical solutions to analytical problems while socializing with friends, customers, and colleagues.

For information on exhibiting at the 2017 EAS, please contact me at 610-742-4981 (cell) or easinfo@aol.com. I look forward to seeing you all in November, as we work together Building Our Analytical Future.

A Special EAS Mixer
in the Exposition Area

Tuesday, November 14, 2017
from 4:00 to 5:30 pm

Mix, mingle, and meet with your colleagues! Enjoy free refreshments while visiting our exhibitors to learn about the latest in analytical instrumentation, supplies, and services. This Exposition Mixer is a wonderful opportunity to touch base with technology and a fun way to end the day at EAS. This event is open to all registered attendees.

More details will follow in the Preliminary Program and Final Program.
<table>
<thead>
<tr>
<th>Activated Research</th>
<th>MicroSolv</th>
</tr>
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<tbody>
<tr>
<td>Agilent Technologies</td>
<td>MilliporeSigma</td>
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<tr>
<td>American Laboratory</td>
<td>Metrohm USA</td>
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<tr>
<td>American Pharmaceutical Review</td>
<td>Mettler Toledo</td>
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<tr>
<td>Analytik Jena</td>
<td>New Era Enterprises</td>
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<tr>
<td>Arizona Instrument</td>
<td>New York Microscopical Society</td>
</tr>
<tr>
<td>Bruker Corporation</td>
<td>NJ Mass Spec Discussion Group</td>
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<tr>
<td>B&amp;W Tek</td>
<td>Omicron Scientific</td>
</tr>
<tr>
<td>CEM Corporation</td>
<td>Oxford Instruments</td>
</tr>
<tr>
<td>Chromatography Forum of DE Valley</td>
<td>Parker Hannifin</td>
</tr>
<tr>
<td>Coblentz Society</td>
<td>PerkinElmer Inc.</td>
</tr>
<tr>
<td>Defiant Technologies</td>
<td>Power 4, LLC</td>
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<tr>
<td>Distek</td>
<td>Quantum Analytics</td>
</tr>
<tr>
<td>Dissolution Technologies</td>
<td>Reichert Technologies</td>
</tr>
<tr>
<td>Elemental Scientific</td>
<td>Restek</td>
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<td>Entech Instruments</td>
<td>Rigaku Americas Corp.</td>
</tr>
<tr>
<td>ES Industries</td>
<td>Rudolph Research Analytical</td>
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<tr>
<td>Evolution Scientific</td>
<td>Sciei</td>
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<tr>
<td>Gerstel</td>
<td>Shimadzu Scientific Instruments</td>
</tr>
<tr>
<td>Gibraltar Laboratories</td>
<td>Spectrum Chemical Mfg. Company</td>
</tr>
<tr>
<td>Hi Scientific</td>
<td>Spex Sample Prep</td>
</tr>
<tr>
<td>INFICON</td>
<td>Sotax</td>
</tr>
<tr>
<td>JEOL</td>
<td>TA Instruments</td>
</tr>
<tr>
<td>Kinesis</td>
<td>Thermo Fisher Scientific</td>
</tr>
<tr>
<td>Lab Manager/LabX</td>
<td>US Pharmacopeial Convention</td>
</tr>
<tr>
<td>LCGC and Spectroscopy Magazines</td>
<td>Viavi Solutions</td>
</tr>
<tr>
<td>LGC Standards</td>
<td>VUV Analytics</td>
</tr>
<tr>
<td>Logan Instruments</td>
<td>Waters Corporation</td>
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<tr>
<td>Macherey-Nagel</td>
<td>Wyatt Technology</td>
</tr>
<tr>
<td>Mac-Mod Analytical</td>
<td>YMC America</td>
</tr>
<tr>
<td>Microliter</td>
<td>ZirChrom Separations</td>
</tr>
</tbody>
</table>

Limited exhibitor space remains for the 2017 EAS at the Crowne Plaza Princeton - Conference Center. For information, please contact Sheree R. Gold, Exposition Director at 610-742-4981 or easinfo@aol.com
# The 2016 Eastern Analytical Symposium – Facts and Statistics

## Table I

<table>
<thead>
<tr>
<th>2016 Registration at a Glance</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>2005</td>
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<tr>
<td>Full Conferee</td>
<td>1088</td>
</tr>
<tr>
<td>Exhibitor Personnel</td>
<td>450</td>
</tr>
<tr>
<td>Expo-Only</td>
<td>467</td>
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</tbody>
</table>

## Table II

<table>
<thead>
<tr>
<th>Employer Category of Those Attending the 2016 EAS</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Responding</td>
<td>1222</td>
</tr>
<tr>
<td>Industry</td>
<td>812</td>
</tr>
<tr>
<td>Academic (Student)</td>
<td>228</td>
</tr>
<tr>
<td>Academic (Faculty)</td>
<td>67</td>
</tr>
<tr>
<td>Other</td>
<td>46</td>
</tr>
<tr>
<td>Government</td>
<td>30</td>
</tr>
<tr>
<td>Self-Employed</td>
<td>23</td>
</tr>
<tr>
<td>No Response</td>
<td>12</td>
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<tr>
<td>Retired</td>
<td>4</td>
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## Table III

<table>
<thead>
<tr>
<th>Primary Job Responsibility of Those Attending the 2016 EAS</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Total Responding</td>
<td>1222</td>
</tr>
<tr>
<td>Chemist/Scientist</td>
<td>564</td>
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<tr>
<td>Student</td>
<td>228</td>
</tr>
<tr>
<td>Lab Manager</td>
<td>83</td>
</tr>
<tr>
<td>Sales/Marketing</td>
<td>62</td>
</tr>
<tr>
<td>Group Leader</td>
<td>51</td>
</tr>
<tr>
<td>Other</td>
<td>50</td>
</tr>
<tr>
<td>Lab Director</td>
<td>49</td>
</tr>
<tr>
<td>Instructor/Professor</td>
<td>41</td>
</tr>
<tr>
<td>Administration</td>
<td>39</td>
</tr>
<tr>
<td>Technician</td>
<td>31</td>
</tr>
<tr>
<td>No Response</td>
<td>19</td>
</tr>
<tr>
<td>Purchasing</td>
<td>5</td>
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</tbody>
</table>

## Table IV

<table>
<thead>
<tr>
<th>Primary Techniques/Interest of Those Attending the 2016 EAS*</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Responses</td>
<td>2808</td>
</tr>
<tr>
<td>Chromatography – Liquid/High Pressure Liquid</td>
<td>450</td>
</tr>
<tr>
<td>Chromatography – Gas</td>
<td>292</td>
</tr>
<tr>
<td>Chromatography – General</td>
<td>261</td>
</tr>
<tr>
<td>Spectrometry – Mass</td>
<td>245</td>
</tr>
<tr>
<td>Spectroscopy – General</td>
<td>123</td>
</tr>
<tr>
<td>No Response</td>
<td>100</td>
</tr>
<tr>
<td>Spectroscopy – Infrared/Mid-infrared/Raman</td>
<td>98</td>
</tr>
<tr>
<td>Microscopy</td>
<td>67</td>
</tr>
<tr>
<td>Lab Automation</td>
<td>65</td>
</tr>
<tr>
<td>Wet Chemistry</td>
<td>65</td>
</tr>
<tr>
<td>Spectroscopy – Ultraviolet/Visible</td>
<td>48</td>
</tr>
<tr>
<td>Other</td>
<td>47</td>
</tr>
<tr>
<td>Spectroscopy – Magnetic Resonance</td>
<td>45</td>
</tr>
<tr>
<td>Laboratory Information Management</td>
<td>36</td>
</tr>
<tr>
<td>Sampling</td>
<td>32</td>
</tr>
<tr>
<td>Chromatography – Size Exclusion</td>
<td>31</td>
</tr>
<tr>
<td>Thermal Analysis</td>
<td>29</td>
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<tr>
<td>Chemometrics</td>
<td>28</td>
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<tr>
<td>Chromatography – Ion</td>
<td>27</td>
</tr>
<tr>
<td>Chromatography – Other</td>
<td>23</td>
</tr>
<tr>
<td>Electrochemistry</td>
<td>21</td>
</tr>
<tr>
<td>Surface Analysis</td>
<td>18</td>
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<tr>
<td>Capillary Zone Electrophoresis</td>
<td>18</td>
</tr>
<tr>
<td>Spectroscopy – Atomic Absorption/Emission</td>
<td>17</td>
</tr>
<tr>
<td>Chromatography – Thin Layer</td>
<td>15</td>
</tr>
<tr>
<td>Spectroscopy – Fluorescence</td>
<td>14</td>
</tr>
<tr>
<td>Electrophoresis</td>
<td>11</td>
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</table>

*Respondents could select a maximum of two techniques/interests

## Table V

<table>
<thead>
<tr>
<th>Primary Applications of Those Attending the 2016 EAS</th>
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<tbody>
<tr>
<td>Total Responses</td>
<td>2553</td>
</tr>
<tr>
<td>Pharmaceutical Analysis</td>
<td>583</td>
</tr>
<tr>
<td>Lab Instrumentation</td>
<td>345</td>
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<tr>
<td>Biotechnology</td>
<td>243</td>
</tr>
<tr>
<td>Forensic Analysis</td>
<td>174</td>
</tr>
<tr>
<td>Environmental Analysis</td>
<td>154</td>
</tr>
<tr>
<td>Food Science</td>
<td>145</td>
</tr>
<tr>
<td>Polymer Analysis</td>
<td>134</td>
</tr>
<tr>
<td>Education</td>
<td>119</td>
</tr>
<tr>
<td>Flavors/Fragrances</td>
<td>108</td>
</tr>
<tr>
<td>Process Analysis</td>
<td>98</td>
</tr>
<tr>
<td>Cosmetics</td>
<td>94</td>
</tr>
<tr>
<td>ISO/GMP</td>
<td>90</td>
</tr>
<tr>
<td>No Response</td>
<td>86</td>
</tr>
<tr>
<td>Microscale/Nanoscale Analysis</td>
<td>54</td>
</tr>
<tr>
<td>Hazard Analysis</td>
<td>49</td>
</tr>
<tr>
<td>Other</td>
<td>40</td>
</tr>
<tr>
<td>Heritage Conservation</td>
<td>37</td>
</tr>
</tbody>
</table>
The Governing Board of EAS would like to thank the following sponsors for their support

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EXPOSITION DIRECTOR
Sheree Gold at easinfo@aol.com

EXECUTIVE SECRETARY
Bernadette Taylor at askeas@eas.org

IMPORTANT DATES
March 1  Abstract submission opens for contributed oral and poster abstracts
May 26   Abstract submission deadline for contributed oral abstracts
June 15  Invited speakers abstract submission opens
June 30  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 and presentation guidelines
July 15  Registration opens
July 31  Deadline for receipt of final abstracts for invited presentations
Aug. 1   Preliminary Program posted on www.EAS.org
Sept. 1  Abstract submission deadline for contributed poster abstracts
Oct. 1   Deadline to register for 2017 EAS at a reduced price
Nov. 1   Deadline to cancel registration and still receive a refund
Nov. 13-15  56th Eastern Analytical Symposium & Exposition at the Crowne Plaza Princeton-Conference Center, Plainsboro, NJ

How to contact us....
General Information
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