2021 EAS Short Course Schedule

Pricing for 2021 Short Courses is $575 one-day and $850 two-day **before Oct. 15th** and $775 one-day and $1,175 two-day **after Oct. 15th** in addition to the Full Conferee registration fee. Full-Time Student Conferees - registration rates for short courses are $70.00 for one-day and $140.00 for a two-day course before Oct. 15th; regular pricing after Oct. 15th in addition to the Full-Time Student Conferee registration fee Limited space available for students in each course so sign up early! Courses are subject to changes/cancellations. Click here to register

*For complete descriptions of all EAS Short Courses, **click on the course name to link to the description.***

Two-Day Courses

Code	~ 2-Day Courses ~ Sunday, Nov. 14 – Monday, Nov. 15 8:30am - 5:00pm	Instructor(s)
E21-01	HPLC and UHPLC for Practicing Scientists 1 and 2: Fundamentals, Method Development, and Troubleshooting	Michael Dong, MWD Consulting
E21-02	Practical Gas Chromatography	Thomas Brettell, Cedar Crest College
E21-03	Basic Mass Spectrometry	Athula Attygalle, Stevens Institute of Technology
E21-04	Chemometrics without Equations Part 1 & 2	Donald Dahlberg, Lebanon Valley College Neal Gallagher, Eigenvector Research

Code	~ 2-Day Course ~ Monday, Nov. 15 – Tuesday, Nov. 16 8:30am - 5:00pm	Instructor(s)
E21-22	Practical LC-MS Method Development and Sample Preparation	Perry Wang, LC-MS Technical Expert

Code	~ 2-Day Courses ~ Tuesday, Nov. 16 – Wednesday, Nov. 17 8:30am - 5:00pm	Instructor(s)
E21-31	Cannabis Lab Essentials: Understanding the Cannabis Landscape and the Critical Process of Test Method Development and Validation	Susan Audino, S.A. Audino & Associates

One-Day Courses

Code	Sunday, November 14 8:30am - 5:00pm	Instructor(s)
E21-05	Chemometrics without Equation Part 1 ONLY	Donald Dahlberg, Lebanon Valley College Neal Gallagher, Eigenvector Research
E21-06	HPLC and UHPLC for Practicing Scientists Part 1 ONLY	Michael Dong, MWD Consulting
E21-07	Characterization of Biologics by Capillary Electrophoresis, Liquid Chromatography, and Mass Spectrometry	Li Tao, Bristol-Myers Squibb Ming Zeng, Bristol-Myers Squibb
E21-08	High-Performance Thin-Layer Chromatography an Alternative Approach to Quality: Standardization, Quantification and Automation	Eike Reich, HPTLC Association Wilmer Perera, CAMAG Scientific
E21-09	Practical Bioanalytical Method Validation by LC-MS	Perry Wang, LC-MS Technical Expert
E21-10	Process Analytical Technology: Out of the Lab & into the Line	James Rydzak, Specere Consulting
E21-11	Systematic Chromatography Maintenance and Troubleshooting	Merlin Bicking, ACCTA, Inc. Douglas Raynie, South Dakota State University
E21-12	History, Environmental Issues, and Characterization of Microplastics	Ashok Deshpande, NOAA
E21-13	Effective Communication for Multicultural Professionals	Dottie Li, TransPacific Communications

2021 EAS Short Course Schedule

One-Day Courses *continued*

*For complete descriptions of all EAS Short Courses, **click on the course name to link to the description**.*

Code	Monday, November 15 8:30am - 5:00pm	Instructor(s)
E21-14	Chemometrics without Equation Part 2 ONLY	Donald Dahlberg, Lebanon Valley College Neal Gallagher, Eigenvector Research
E21-15	HPLC and UHPLC for Practicing Scientists Part 2 ONLY	Michael Dong, MWD Consulting
E21-16	Learn Reversed Phase LC – What to Do When C18 Does or Doesn't Work	Merlin Bicking, ACCTA, Inc.
E21-17	Quality by Design (QbD) Fundamentals for Analytical Chemists: A Continuous Improvement Paradigm for the Analytical Laboratory	Zenaida Otero Gephardt, Otero Associates
E21-18	Intact and Top-Down Protein Characterization and Quantitation by Mass Spectrometry: Approaches for Pharmaceutical Drug Discovery, Development, & Bioanalysis	John Kellie, GlaxoSmithKline
E21-19	Analytical Sampling and Sample Preparation for Chromatography	Douglas Raynie, South Dakota State University
E21-20	Intellectual Property Fundamentals for Scientists	Matthew Klee, XO Associates
E21-21	Atomic Spectroscopy in the Pharmaceutical Laboratory	Lydia Breckenridge, Bristol Myers Squibb Sharla Wood, Bristol Myers Squibb

Code	Tuesday, November 16 8:30am - 5:00pm	Instructor(s)
E21-23	An Introduction to High Resolution Mass Spectrometry for Qualitative and Quantitative Analysis	Matthew Blatnik, Pfizer Graham West, Pfizer
E21-24	How to Develop Validated HPLC Methods: Rational Design with Practical Statistics and Troubleshooting	Brian Bidlingmeyer, Analytical Acumen Inc. Stanley Deming, Statistical Designs
E21-25	GC/MS Fundamentals for Operators	Matthew Klee, XO Associates
E21-26	Communicating Analytical Results in the Pharmaceutical Labs and Understand Human Errors in Maintaining Data Integrity	Kim Huynh-Ba, Pharmalytik
E21-27	Supercritical Fluid Chromatography: A Powerful and Greener Tool for Analytical and Preparative Separations	Yingru Zhang, Bristol Myers Squibb Michael Hicks, Merck & Co.
E21-28	Protein Therapeutics Immunogenicity	Robert Dodge, Novartis
E21-29	Portable Spectroscopy	Richard Crocombe, Crocombe Spectroscopic Consulting Pauline Leary, Federal Resources
E21-30	R Programming for Analytical Chemistry	David Gosser, City College of New York

Code	Wednesday, November 17 8:30am - 5:00pm	Instructor(s)
E21-32	Problems with FT-IR Spectra and How to Avoid Them	Ellen Miseo, TeakOrigin Jenni Briggs, Peak Technologies
E21-33	Getting the most from GC and GC/MS	Gregory Slack, PharmAssist Nicholas Snow, Seton Hall University
E21-34	Lifecycle Approach to Analytical Methods: Incorporating Quality by Design Concepts into Method Development, Validation, Verification and Transfer	Gregory Martin, Complectors Consulting
E21-35	Headspace-Gas Chromatography Fundamentals, Method Development and Method Transfer	Matthew Klee, XO Associates
E21-36	Safety in the Laboratory	James Kaufman, The Lab Safety Institute
E21-37	Uniting Analytical Technologies – TGA-IR-GCMS, LC-ICP-MS	Bill Hahn, PerkinElmer Brady Frill, PerkinElmer
E21-38	Sample Processing, Preparation, and Analysis the QuEChERSER Way	Steven Lehotay, US Department of Agriculture