

2022 EAS Short Course Schedule

Pricing for 2022 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.

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. 13 – Monday, Nov. 14 8:30am - 5:00pm	Instructor(s)
E22-01	HPLC and UHPLC for Practicing Scientists 1 and 2: Fundamentals, Method Development, and Troubleshooting	Michael Dong, MWD Consulting
E22-04	Chemometrics without Equations Part 1 & 2	Donald Dahlberg, Lebanon Valley College Neal Gallagher, Eigenvector Research
Code	~ 2-Day Course ~ Monday, Nov. 14 – Tuesday, Nov. 15 8:30am - 5:00pm	Instructor(s)
E22-12	Practical LC-MS Method Development and Sample Preparation	Perry Wang, LC-MS Technical Expert

One-Day Courses

Code	Sunday, November 13 8:30am - 5:00pm	Instructor(s)
E22-02	HPLC and UHPLC for Practicing Scientists Part 1 ONLY	Michael Dong, MWD Consulting
E22-05	Chemometrics without Equation Part 1 ONLY	Donald Dahlberg, Lebanon Valley College Neal Gallagher, Eigenvector Research
E22-07	Supercritical Fluid Chromatography: A Powerful and Greener Tool for Analytical and Preparative Separations	Yingru Zhang, Lotus Separations Michael Hicks, Merck & Co., Inc.
E22-08	Prepare Your Analytical Laboratory for Quality Audit and Inspection	Kim Huynh-Ba, Pharmalytik, LLC
E22-09	Practical NMR Spectroscopy	Damodaran Achary, University of Pittsburgh
E22-10	The Importance of Microscopy in Microspectroscopy	Dale Purcell, Chemical Microscopy, LLC Brooke Kammrath, University of New Haven
E22-11	Portable Spectroscopy and Its Application in Forensic Science	Richard Crocombe, Crocombe Spectroscopic Consulting Pauline Leary, Federal Resources

Code	Monday, November 14 8:30am - 5:00pm	Instructor(s)
E22-03	HPLC and UHPLC for Practicing Scientists Part 2 ONLY	Michael Dong, MWD Consulting
E22-06	Chemometrics without Equation Part 2 ONLY	Donald Dahlberg, Lebanon Valley College Neal Gallagher, Eigenvector Research
E22-13	Modern Raman Spectroscopy Techniques and Applications in the Material and Biological Sciences	Alex Rzhetskii, Thermo Fisher Scientific
E22-14	The Fundamentals of Laboratory Management – Managing People	Scott Hanton, Lab Manager
E22-15	An Introduction to Quantitative Spectroscopic Analysis	Debbie Peru, DP Spectroscopy and Training, LLC
E22-16	Lifecycle Approach to Analytical Methods: Incorporating Quality by Design Concepts into Method Development, Validation, Verification and Transfer	Gregory Martin, Complectors Consulting

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One-Day Courses continued

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Code	Tuesday, November 15 8:30am - 5:00pm	Instructor(s)
E22-17	Intact and Top-Down Protein Characterization and Quantitation by Mass Spectrometry: Approaches for Pharmaceutical Drug Discovery, Development, & Bioanalysis	John Kellie, GlaxoSmithKline
E22-18	How to Develop Validated HPLC Methods: Rational Design with Practical Statistics and Troubleshooting	Brian Bidlingmeyer, Analytical Acumen Inc. Stanley Deming, Statistical Designs
E22-19	Process Analytical Technology: Out of the Lab & into the Line	James Rydzak, Specere Consulting
E22-20	Getting the most from GC and GC/MS	Gregory Slack, Boston Analytical Nicholas Snow, Seton Hall University
E22-21	Analytical Challenges of Emerging Contaminants for Young Research Professionals	Satinder Kaur Brar, York University Rama Pulicharla, York University
E22-22	Analytical Atomic Spectroscopy and its Environmental Applications	Dula Amarasiriwardena, Hampshire College
Code	Wednesday, November 16 8:30am - 5:00pm	Instructor(s)
E22-23	Systematic Chromatography Maintenance and Troubleshooting	Merlin Bicking, ACCTA, Inc. Douglas Raynie, SD State University
E22-24	Problems with FT-IR Spectra and How to Avoid Them	Ellen Miseo, TeakOrigin Jeff D'Agostino, Specac
E22-25	Quality by Design (QbD) Fundamentals for Analytical Chemists: A Continuous Improvement Paradigm for the Analytical Laboratory	Zenaida Otero Gephardt, Otero Associates

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