

2018 LIST OF SHORT COURSES

Pricing for 2018 Short Courses is \$575 one-day and \$850 two-day before Oct. 1st and \$775 one-day and \$1,175 two-day after Oct. 1st; in addition to the Full Conferee registration fee.

Click on course title for description

#-Days	Course Names	Instructors
2-day	Practical LC-MS Method Development for Small Molecule Pharmaceuticals (NEW!)	Perry Wang, LC-MS Technical Expert
2-day	Modern HPLC/UPLC For Practicing Scientists Part 1 &/or 2: Fundamentals, Best Practices and Applications	Michael W. Dong, MWD Consulting
2-day	Quality-by-Design: A New Paradigm for the Analytical Lab Part 1 &/or 2	Zenaida Otero Gephardt, Rowan University
2-day	Practical Gas Chromatography	Eugene Barry, University of Massachusetts Thomas Brettell, Cedar Crest College
2-day	Troubleshooting Chromatographic Systems	Merlin K.L. Bicking, ACCTA, Inc. Douglas E. Raynie, SD State University
2-day	LC/MS: Theory, Instruments, and Applications	Guodong Chen, Bristol-Myers Squibb Ragu Ramanathan, Pfizer
2-day	How to Develop Validated HPLC Methods: Rational Design with Practical Statistics and Troubleshooting	Brian Bidlingmeyer, Analytical Acumen Inc. Stanley Deming, Statistical Designs
2-day	Chemometrics without Equations Part 1 &/or 2	Donald Dahlberg, Lebanon Valley College Neal Gallagher, Eigenvector
1-day	Process Analytical Technology: Out of the Lab and into the Line (NEW)	Jim Rydzak, Specere Consulting
1-day	HPLC and UPLC Troubleshooting (NEW)	Imad Haidar Ahmad, Merck & Co.
1-day	Develop Robust HPLC Methods for Pharmaceutical Analyses (NEW)	Jinjian Zheng, Merck & Co.
1-day	Practical NMR Spectroscopy (NEW)	Damodaran Achary, University of Pittsburgh
1-day	Analytical Sampling and Sample Preparation (NEW)	Douglas E. Raynie, SD State University
1-day	How Liquid Chromatography Works: Separation Principles Explained in Chromatograms (NEW)	Martin Gilar, Waters
1-day	Intact and Top-Down Protein Characterization and Quantitation by MS: Approaches for Pharmaceutical Drug Discovery, Development, and Bioanalysis (NEW)	John Kellie, GlaxoSmithKline Wenying Jian, Janssen R&D
1-day	Physical Characterization and Methods of Analysis of Pharmaceutical Solids: Essential Knowledge (NEW)	Stephen Byrn, University of Purdue Sean Chen, Antares Pharma
1-day	Optimizing HPLC Separations with Knowledge of Analyte Size, Column Pore Size, and Phase Chemistry (NEW)	Richard Henry, Consultant
1-day	Modern Portable Analytical Spectroscopy (NEW)	Richard Crocombe, Crocombe Spectroscopic Consulting Pauline Leary, Smiths Detection
1-day	SFC: A Powerful and Greener Tool for Analytical and Preparative Separations (NEW)	Yingr Zhang, Bristol-Myers Squibb Mike Hicks, Merck & Co.
1-day	Stability Studies: The Tools, Methods and Predictions during each Stage of Pharmaceutical Development (NEW)	Kenneth Waterman, FreeThink Technologies Peter Bonk, Reaction Analytics
1-day	Setting Data Quality Objectives and Determining, Reporting, and Interpreting Data Quality Indicators to Meet Scholarly Publication Requirements (NEW)	Ephraim Govere, Penn State University
1-day	Introduction to GPC/SEC for Polymer Analysis (NEW)	Yeja Li, Ashland Zheng Li, Ashland
1-day	Taking Advantage of the Power of Excel (NEW)	Scot Abbott, Phoenix First Response
1-day	Analytical Instrument Qualification from a Chemical Metrology Perspective (NEW)	Jerry Messman, Stranaska Scientific LLC
1-day	Keeping your Analytical Procedures in Compliance with the new FDA Validation Guidance	Kim Huynh-Ba, Pharmalytik
1-day	Getting the most from GC and GC/MS	Gregory Slack Nicholas Snow, Seton Hall University
1-day	Interpretation of Mass Spectra with Practical Solutions to Problems	Mike Lee, Milestone Development
1-day	Lifecycle Approach to Analytical Methods for Drug Products, Incorporating Quality by Design Concepts	Gregory Martin, Complectors Consulting
1-day	Evaluation of Trace/Ultratrace Impurities in Pharmaceuticals	Satinder (Sut) Ahjua, Ahjua Consulting
1-day	Introduction to Vibrational Spectroscopy for Real Time Analysis	John Wasylyk, Bristol-Myers Squibb Peter Larkin, Solvay Cytec Group