Bioanalytical & Life Science

Applications of Portable Spectroscopy in Pharma, Forensics and Law Enforcement
Richard Crocombe, Crocombe Spectroscopic Consulting

CSI-Pittcon - Introduction to MS Interpretation
Robert Kobelski, Resolution Sciences LLC

High-Throughput and High-Resolution Mass Spectrometry for Drug Discovery and Clinical Research
Yu Zhou, Centers for Disease Control and Prevention

Introduction to Python Programming in the Laboratory
William Neil, NeilLabAuto

Multivariate Analysis for Beginners: Pre-Processing and Data Analysis of Raman/IR Spectra in the Matlab Environment (LAPTOP REQUIRED)
Cassio Lima, University of Liverpool

Practical LCMS Instrument and Method Troubleshooting with Case Studies
Eugene Chang, U.S. Food and Drug Administration

Problems with FT-IR Spectra and How to Avoid Them
Ellen Miseo, Miseo Consulting

Sampling and Sample Preparation for Chromatography
Doug Raynie, South Dakota State University

Cannabis & Psychedelic

A Deep Dive into Quantitative and Qualitative Microbial Methods for Cannabis Testing
Morgan Keefer, A2LA

Comprehensive Cannabis Crash Course - Understanding Testing from Start to Finish and Everything in Between - PART 1
Jini Glaros, Modern Canna Labs

Comprehensive Cannabis Crash Course - Understanding Testing from Start to Finish and Everything in Between - PART 2
Jini Glaros, Modern Canna Labs

Optimizing Performance and Maximizing Productivity When Measuring Heavy Metals in Cannabis and Hemp by ICP-MS
Robert Thomas, Scientific Solutions

Environment & Energy

Analysis of Microplastics in Water
Damia Barcelo, University of Almeria

Data Analytics and Statistics in Quantitative Chemical Analysis – Chemometric Workflow Using R
Mike Dereviankin, Dereviankin Consulting Inc.

Green Analytical Chemistry
Doug Raynie, South Dakota State University

Laboratory Waste Management 2025
Russ Phifer, WC Environmental, LLC

Instrumentation & Nanoscience

A Hands-On Example on How to Develop PLS Regression Models
Jose Andrade, University of A Corunna

Accurate Analysis by Mass Spectrometry--LC/MS and Interpretation of Mass Spectra of Unknowns and Small Molecules
Michael Thurman, University of Colorado

Applications and Techniques Using Combustion Ion Chromatography
Jay Sheffer, Metrohm

Applied HPLC & LC-MS Maintenance
Giles Edwards, Anthias Consulting Ltd

Applied Maintenance & Troubleshooting for GC & GC-MS
Diane Turner, Anthias Consulting Ltd

Applied Method Development for GC & GC-MS
Diane Turner, Anthias Consulting Ltd

Applied Troubleshooting for HPLC & LC-MS
Giles Edwards, Anthias Consulting Ltd

Creating a Successful Method Using Ion Chromatography
Jay Sheffer, Metrohm

Exploring Material Properties with Rheology
Philip Rolfe, NETZSCH Instruments

Handheld Near-Infrared Spectroscopy for Identification, Authentication and Discrimination of Materials: Anywhere, Anytime by Anybody
Heinz Siesler, Department of Physical Chemistry, University Duisburg-Essen

HPLC and UHPLC for Practicing Scientists: Fundamentals, Method Development, and Troubleshooting
Michael Dong, MWS Consulting

How to Select an ICP-MS: The Most Important Analytical Considerations
Robert Thomas, Scientific Solutions

Industrial Applications of Raman, Mid-/Near-/Far-Infrared Spectroscopy in Material, Life and Environmental Sciences
Heinz Siesler, Department of Physical Chemistry, University Duisburg-Essen

Industrial Problem-Solving Using Surface FTIR Techniques
Anthony Parker, A. A. Parker Consulting, LLC

Industrial Problem Solving Using Thermal Analysis Techniques
Anthony Parker, A. A. Parker Consulting, LLC

Introduction to Multi-Function Thermal Injection: Analytical Pyrolysis-GC-MS: Theory, Applications, and Additional Techniques
Karen Sam, CDS Analytical

Introduction to Scanning Electron Microscopy and Energy Dispersive X-ray Spectroscopy (SEM-EDS)
Donna Gosselin, JEOL USA, Inc.

Introduction to Solid State NMR Spectroscopy
Damodaran Achary, University of Pittsburgh

Introduction to Quantitative Spectroscopy for Near Infrared and Raman Instrumentation
Deborah Peru, DP Spectroscopy and Training, LLC

LC-MS/MS Principles, Tips & Tricks
Matthew Vergne, Lipscomb University

Mastering GC in One Day: From Theory to Practice
Lee Polite, Axion Analytical Labs, Inc.

Method Translation and Modelling in Gas Chromatography (LAPTOP REQUIRED)
Jaap de Zeeuw, CreaVisions

Method Validation
Deanne Emory, ANSI National Accreditation Board

Modern Raman Microscopy for Applications in the Material and Life Sciences
Alexander Rzhevskii, Thermo Fisher Scientific

Optimizing Infrared Microspectroscopy and Raman Microscopy
Dale Purcell, Chemical Microscopy, LLC

Practical LC-MS/MS Method Development
Perry Wang, FDA

Practical Maintenance and Troubleshooting in Gas Chromatography
Jaap de Zeeuw, CreaVisions

Scientific Data Management and Instrument Integration
Burkhard Schaefer, Splashlake

Surface Microscopy and Characterization on the Nano and Micro Lengthscales
Dalia Yablon, SurfaceChar LLC

Pharmaceutical & Biologics

Bioanalytical Method Validation by LC-MS/MS
Perry Wang, FDA

Chiral Separations
Zachary Breitbach, AbbVie, Inc.

HPLC Operating Modes Primer – Reversed-Phase and Other Options
Merlin Bicking, ACCTA, Inc.

ICP-MS-QQQ Method Development: 30 Elemental Impurities, One Method
Benjamin Puffer, Northstar Medical Radioisotopes

Keeping Your Analytical Procedures in Compliance with the FDA, ICH and USP Requirements
Kim HuynhBa, Pharmalytik LLC

Machine Learning for Calibration and Classification
Barry M. Wise, Eigenvector Research, Inc.

Particulate Matter in Biologics: Interfacing Downstream Process, Formulation, Drug Product Manufacturing and Analytics for Purity Optimization
Tatyana Mezhebovsky, Merck

Process Analytical Technology: Out of the Lab and Into the Line
James Rydzak, Specere Consulting

Professional Development

ABC to PMP: A Project Management Crash Course (LAPTOP HIGHLY RECOMMENDED)
Luisa Profeta, Rigaku Analytical Devices

Enhancing your Lab Informatics Systems (LIMS/ELN) through Lean Lab Principles
Aimee Zwart, CSols Inc.

How to Deliver a Winning Technical Presentation
Dottie Li, TransPacific Communications

Language and Matter: Technical Writing for Analytical Scientists and Managers
Anthony Parker, A. A. Parker Consulting, LLC

Measurement Uncertainty Fundamentals
Deanne Emory, ANSI National Accreditation Board (ANAB)

Open-Source Data Analytics Techniques Applied to Life Science (LAPTOP REQUIRED)
Phil Callahan, CSols Inc.

Streamlining your Laboratory with Python
Mark Russo, The College of New Jersey