

# Back to School!

## with Restek Seminars



Widely acclaimed Restek seminars reduce guesswork, improve throughput and reliability, and raise confidence in generated data. Each course delivers a wealth of information in a professional, non-promotional, multimedia format featuring animations and problem-solving exercises that reinforce understanding of important principles. A mixture of introductory, intermediate, and advanced elements makes these presentations suitable for people at all experience levels, from beginners in chromatography to experienced analysts who want to revisit the fundamentals and get an introduction to the newest techniques.

### Comprehensive GC

- Provides a sound understanding of gas chromatography fundamentals.
- Presents current best practices and introduces the latest developments in capillary GC.
- Expands your knowledge and improves your ability to select stationary phases/column dimensions, choose injection techniques, optimize detector and analytical conditions, and conduct routine maintenance and troubleshooting.

**Major topics include:** Introduction to GC, Column Selection, Inlet Systems, Detectors, and Maintenance and Troubleshooting.

### Comprehensive LC

- Details fundamentals, best practices, and latest developments in HPLC.
- Gain tools for selecting the correct stationary phase and column format, choosing mobile phases, optimizing a detection system, and conducting routine maintenance and troubleshooting.
- Highlight—a detailed discussion of HPLC method development.

**Major topics include:** Introduction to LC, Modern LC Systems, Separation Techniques, Column Selection, Method Development in LC, and Maintenance and Troubleshooting.

### GC/MS

- Provides a solid introduction to the fundamentals and best practices of this widely used technique.
- Gain practical knowledge of mass spectrometric detectors, GC inlet systems and injection techniques, GC column selection, basic spectral interpretation, and maintenance and troubleshooting of GC/MS systems.

**Major topics include:** Introduction to GC/MS, MS Detectors, Inlet Systems, Column Selection, Basic Mass Spectral Interpretation, and Maintenance and Troubleshooting.

### LC/MS

- Provides a sound basis for selecting and optimizing LC/MS systems used for a wide variety of modern applications.
- Benefit from a detailed discussion of interface and analyzer systems, learn how to properly develop an LC/MS method, and examine a variety of practical case studies.

**Major topics include:** Introduction to LC/MS, LC/MS Analyzers, LC/MS Interfaces, LC/MS Method Development, Case Studies, and Troubleshooting and Maintenance of LC/MS Systems.

### Environmental

- Designed for all analysts—from beginner to veteran—to get exactly the information they need for their work on EPA projects.
- Includes both extractables and purgeables sessions as well as focused information on pesticides and air monitoring.

**Major topics include:** Introduction to Environmental Analysis, Semivolatile Organic Analysis, Volatile Organics Analysis, Pesticides and PCB Analysis, and Ambient Air Analysis.

### GC/Headspace

- Teaches a fundamental understanding of GC and Headspace principles in order to maximize system performance.
- Ideal course for novice and experienced headspace users.
- Practical applications used to enhance understanding of key principles.

**Major topics include:** Introduction to Headspace Analyses, Chemistry of Headspace Analyses, Sample Preparation and Handling, GC Principles and Modes of Operation, Method Development, Maintenance and Troubleshooting.

### did you know?

Choose the topic that best matches your work, at a convenient site—or, we'll come to your facility.

For more details and to see how our graduates grade us, visit

[www.restek.com/seminars](http://www.restek.com/seminars)

## New in 2008!

# Analysis of Petroleum & Petrochemical Products

### Restek's newest full-day seminar:

- Covers a broad range of topics of interest to petrochemical analysts of all experience levels.
- Sections covering GC principles and hardware operation enhance understanding of Laboratory and Process GC applications.
- Select petrochemical analyses presented in easy to understand animated format.

### Major topics include:

Overview of Petroleum Testing, Basic Gas Chromatography Fundamentals and Theory, GC Detector Design and Function, Sample and Switching Valve Basics, Laboratory and Process Analytical Procedures for Petroleum Products.

