

# Hichrom Short Seminars – opportunities to improve your skills - for busy chromatographers

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A series of short (1-2 hour), low cost seminars exploring a wide range of topics. These courses represent valuable opportunities to improve your skills and knowledge in key areas of chromatography and keep up-to-date with the latest developments

## Who should take these courses?

These short seminars aim to provide busy chromatographers with the opportunity to keep up-to-date with the latest developments and key skills in the industry, without placing burdensome demands on hectic work schedules. If you are involved in practical, 'hands-on' chromatography and want to stay ahead of the competition, then these low cost, concentrated learning experiences are ideal for you. These seminars last approximately 1 to 2 hours and can be delivered as breakfast, lunch or evening seminars (or any other time!), either at your company or at a venue local to you, at a convenient date and time. Following the main seminar, an opportunity for delegates to stay on for an open Q&A session, or a more in-depth discussion about a specific problem or topic, can be arranged.

## Introduction to Sample Preparation Techniques

This short course is aimed at analysts who are required to develop assay methods for analytes in challenging matrices and would like a better idea of the very wide range of sample preparation techniques that are available. Starting with a few important pointers on sampling, the course will cover techniques that can be used to separate and pre-concentrate analytes based on polarity, solubility, charge, functionality, molecular size or a combination of two or more mechanisms. This course will help you to select an appropriate sample preparation strategy from the wide range of techniques that are available.

- Sampling and sample stability
- Where to start – chemical/physical properties of the analyte and matrix
- Overview of traditional extraction techniques
- Techniques based on liquid extraction
- Techniques based on chromatographic separation
- Miniaturised techniques and QuEChERS approaches

## Theory and Practice of Solid Phase Extraction (SPE)

This short course will explain how to develop robust, efficient solid-phase extraction methods. The main modes of separation in SPE will be described, as well as the important factors to consider during method development in relation to the analyte and the matrix. The best approach for selecting and optimising experimental conditions will be explained, allowing analysts to move quickly through method development to successful validation.

- Normal-phase, reversed-phase, ion-exchange and mixed-mode phases
- Chemistry of the analyte and matrix
- The SPE process – conditioning, loading, rinsing, drying and elution
- Method development and optimisation
- Strategies for poorly retained solutes
- Devices for miniaturised SPE



**Available as an in-house or off-site course. Contact us for details**

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