

Understanding how to perform good practical RPLC

Abstract

This one-day course (9.00 – 16.00hrs) will be delivered at the Shimadzu Europa Laboratory World in Duisburg. The course will be split into two parts: a theory session in the morning (2hrs 15min) and then a practical “*hands-on*” session in the afternoon (3hrs 15min) to reinforce the chromatographic principles that have been explained in the morning. The course is aimed at individuals just beginning their chromatographic careers no matter how old they are. The contents will be delivered in an informal and interactive manner. The aims of the course will be to provide the attendees with the relevant information to allow them to start to solve chromatographic troubleshooting (not instrumentation), robustness, method development and optimisation issues. The course is NOT designed to answer all questions but to set the attendees off in the correct direction to becoming good chromatographers. The focus of the course will centre on the Resolution Equation and how changing chromatographic operating parameters can have a dramatic effect on the performance of a method. In the afternoon, attendees will have the opportunity to use “*state of the art*” instrumentation to consolidate what they have learnt in the morning.

Organisational:

- Transportation from the HPLC venue to the Shimadzu Europa Laboratory world will be organised, coffee and lunch breaks on site are also included.
- A basic understanding of the principle and theory of liquid chromatography is required to make the most of the course content. The practical short course will cover both fundamentals as well as practical application examples on the instrument. It will provide background information essential to understanding the technique and achieve practically useful results with commercial instrumentation.

Biography

Mel Euerby is Leader of Shimadzu's Centre of Excellence in Liquid Chromatography where he is responsible for inspiring and training young chromatographers. He has previously worked as an academic (University of London), a global chromatography specialist within the pharmaceutical industry (AstraZeneca Charnwood) and as an R&D manager designing chromatographic stationary phases (Hichrom/Advanced Chromatography Technologies).

In 2007 he was awarded the Jubilee Silver Medal for chromatography by the Chromatographic Society. Mel is the Educational Officer of The Chromatographic Society with special responsibilities for "*chromatographic up-skilling*". He has one hundred and thirty-two publications in peer-reviewed journals in the area of separation science and organic chemistry and is a referee for numerous internationally renowned journals.

Mel's current areas of interest include stationary phase characterisations, supercritical fluid chromatography, 2-dimensional LC, hydrophilic interaction chromatography, computerised method development, ultra-fast / high resolution LC and fundamental research into retention mechanisms in chromatography. He has supervised over 48 MSc, 20 PhD, three post-doctoral students and two Knowledge Transfer Programme associates. He has taught on the MSc course at Strathclyde University for 28 years, delivered 111 presentations and run 15 workshops.

Mel also holds visiting professorship status at the University of Strathclyde (2002 – present) and The Open University (2009 – present).