



THE BRITISH MASS SPECTROMETRY SOCIETY'S

INTRODUCTION TO MASS SPECTROMETRY SHORT COURSE

CHURCHILL COLLEGE CAMBRIDGE

10-11 SEPTEMBER 2018

IN ASSOCIATION WITH THE 39TH BMSS ANNUAL MEETING

C A M B R I D G E 2 0 1 8

BMSS Introduction to MS Short Course

Who Should Attend

This course is designed for novices to mass spectrometry (MS) who wish to gain an understanding of the technology and an awareness of its vast field of application, and current users who will find the course an excellent refresher. Ideal for graduate students, from archeologists to zoologists, with an undergraduate familiarity with chemistry.

Course Overview

This course will introduce the basic concepts and terminology of mass spectrometry. The most important ionisation techniques including: EI, Electrospray, APCI & MALDI. The most common mass analysers including: quadrupole, ion trap, time-of-flight, orbitrap and FT-ICR.

Using real-world examples the concepts of: atomic and molecular mass, mass resolution, exact mass, ion detection, data processing and spectral interpretation will be discussed. Sample preparation, GC-MS & LC-MS coupling and the MS of large (bio)molecules will also be covered.

This course provides delegates with a solid foundation in MS, an awareness of its advantages & limitations and guidelines for choosing appropriate instrumentation for a particular analytical challenge.

Course Materials

Each delegate will receive a course manual containing lecture notes together with background information: key references, a guide to MS resources, Best Practice Guides for Generating Mass Spectra & Accurate Mass Measurement of Small Molecules, and Mallet & Down's "Dictionary of Mass Spectrometry".

Personal Development

Professional Bodies, (e.g. RSC), will accept this BMSS short course as contributing to an individual's Continuing Personal Development (CPD) Portfolio.

Course Tutors

Rainer Cramer (Reading), Cris Laphorn (GSK), Peter O'Connor (Warwick), Mike Morris (Waters), Jackie Mosely (Durham), Chris Mussell (British Museum), Chris Titman (Shimadzu).

On-Line Registration

Discounted 'Early Bird' registration, for students, opens on 1st December 2017 and closes on 8th July 2018. 'Late' registration closes on 11th August 2018. Go to the 39th BMSS Annual Meeting Page at:

[www • bmss • org • uk](http://www.bmss.org.uk)