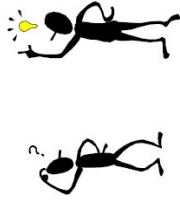


Course Fees

The £1150 registration fee for the five-day intensive course includes full documentation, daily lunches, tea / coffee and the course dinner at a restaurant in the centre of historical Bath.

Please note that accommodation is not included in the course fee.

Early registration is advised since the number of places is restricted in order to guarantee that all participants have full access to special equipment.



Student Bursaries available

Accommodation

A booklet with information about hotels and guesthouses in Bath will be sent to participants on receipt of completed registration forms.

For further information about accommodation see

<http://www.visitbath.co.uk> or
<http://www.haatbath.co.uk/beds/>

Booking a Place

To book a place, contact

Frank Marken

Department of Chemistry

University of Bath

Bath BA2 7AY

United Kingdom

Tel: +44 (0)1225 383694

Fax: +44 (0)1225 386231

e-mail: F.Marken@bath.ac.uk

Visit the Web

To register interest in the course, go to

<http://www.bath.ac.uk/chemistry/summerschool>

or contact us directly.

Links

For information about the Southampton Summer School, go to

http://www.southampton.ac.uk/chemistry/busines_ss_partnership/summer_school.page?

Bath Electrochemistry Winter School



Intensive Hands-on Training and Lectures



14th - 18th January 2013

A five-day intensive course given by Professor Laurie Peter and his colleagues in collaboration with Autolab and Metrohm

Visit

<http://www.bath.ac.uk/chemistry/summerschool>

About the Course

Electrochemical techniques have evolved rapidly in recent years, with computer-controlled instrumentation now readily accepted. Applications of electrochemistry can now be found in a range of areas e.g. sensing, online-monitoring, surface science, material investigation, energy storage, electrosynthesis, bioelectrochemistry and photovoltaics. It is therefore hardly surprising that the end-user, faced with a bewildering array of different techniques and applications, can often be confused about the applicability and merits of different methods.

The objective of this course is to remove the mystery from practical electrochemistry with the help of a balanced programme of lectures and emphasis on hands-on experiments. The tutors have many years of experience running short courses of this type, and the course has been designed to be suitable for scientists who wish to use electro-chemical methods in a broader context than just academic research.

Strong emphasis is placed on small group teaching in the laboratory. The direct link between lectures and experiments enables participants to relate the basic concepts of electrochemistry to real systems.

Working in small groups, each supervised by a qualified demonstrator, participants learn to use state-of-the-art electrochemical instrumentation and to interpret the results that they obtain.

Lecture notes and details of the experiments are provided.

Lectures

Overview of electrochemistry
Introduction to electrode processes
Electrode kinetics
Mass transport
Electrochemical impedance
Mechanisms of electrode reactions
Spectroelectrochemistry
Electroanalytical methods
Biosensor technology
Design of experiments

Hands-on Experiments

Getting to know the equipment
Cyclic voltammetry
Chronoamperometry
Rotating disc / ultramicroelectrodes
Electroanalytical techniques
Electrochemical impedance
In situ spectroelectrochemistry
Protein electrochemistry
Sensor electrochemistry
Electrodeposition processes
Electrocatalysis at nanoparticles

The Course Team

Dr Petra Cameron
University of Bath

Dr David Fermin
University of Bristol

Dr Toby Jenkins
University of Bath

Dr Frank Marken
University of Bath

Professor Laurie Peter
University of Bath

Dr Jason Riley
Imperial College London

Guest Lecturer

t.b.a.

