

A lecture and practical training programme targeted at users of electrochemical impedance and other AC techniques in commercial or academic research.

5-6 December 2018
The Green Chemical Futures Building
13 Rainforest Walk, Monash University,
Clayton, VIC, Australia

Impedance and Related AC Methods in Electrochemistry

MasterClass at Monash University

Electrochemical AC & Impedance

Expert training and hands-on experience: The objective of the course is to provide advanced lectures, seminars and hands-on experiments for scientists who use or wish to use electrochemical AC & impedance methods for their academic research or industrial applications. A strong emphasis of the course will be on using small group teaching methods, supported by Cambridge and Monash University academics and invited experts in the area, to train participants in the use of 'state-of-the-art' electrochemical techniques.

The workshop is based on the highly successful one held on Advances in Electrochemical Techniques at Monash University last year.



Key to advanced skills training

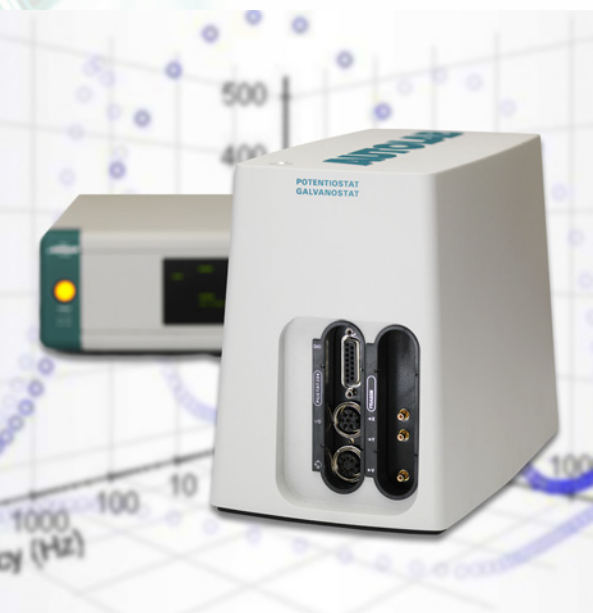
The Masterclass will run in collaboration with University of Cambridge, Monash University, Electrochemistry Division of the Royal Australian Chemical Institute (EDRACI) and Metrohm Australia. The programme will be structured to integrate keynote lectures and laboratory experiments.

Topics covered in lectures will include:

- Fundamentals of electrochemical impedance spectroscopy
- Principles of hardware and software
- Overview of AC methods in electrochemistry
- Application of Fast Fourier Transform voltammetry for the investigation of electrochemical mechanisms
- Corrosion

Delegates will also gain first hand experience in operating the latest electrochemical equipment and software. Working in small groups, the delegates with the help of an experienced demonstrator will carry out experimental measurements to support and enhance the material covered within the lectures.

Experts from Metrohm will also support the course and assist in hands-on training.



See overleaf for registration >



Course facility

This unique MasterClass programme will be directed by Prof Alan Bond and Dr Jie Zhang, Monash University, Dr Adrian C Fisher, University of Cambridge and Dr Sivanesan Arumugam, Metrohm Australia. The course will be presented and supported by colleagues from leading UK and Australia academic institutions. Delegates will receive lectures on fundamental and advanced electrochemical theory.

Participation numbers will be restricted to provide a small-group training environment

The Electrochemical Impedance course using University of Cambridge teaching methods, offers a unique opportunity to explore and take control of your own professional development.

The Cambridge Phenomena

Participants will also benefit from the 'Cambridge Phenomena' experience. This phrase is used to describe the immense growth of high technology companies that have been formed in the Cambridge area since the 1960s. Over 1,000 companies are sited in the many business and science parks located around the city. Companies range from large multinationals like Microsoft to small spin-out companies from the University.



Course fee

A course fee of A\$700 for members of academic institutions (A\$900 for industrialists) will be payable, preferably by credit card, for each delegate upon registration prior to the event taking place. This will cover costs of running the programme.

Numbers for the MasterClass are strictly limited to 20 with a maximum of 2 participants from the same group. Please register early to secure your place and avoid disappointment.

Delegates will be responsible for arranging their own accommodation and travel. Lunch will be provided.

Registration (closes 16 November 2018)

mep.metrohm.com.au/mep-event → MasterClass

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