



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

1st UTM Capillary Electrophoresis Workshop 2015

Date: 21st and 22nd October, 2015
Time: 8.30 am – 5.00 pm

Venue:
N31, Centre for Sustainable Nanomaterials
Ibnu Sina Institute for Scientific and Industrial Research
Universiti Teknologi Malaysia
81310 UTM Skudai, Johor Malaysia.



WHO SHOULD ATTEND

Capillary Electrophoresis workshop is designed for those who wish to use capillary electrophoresis technique to perform separation and analysis of a variety of samples, including pharmaceuticals, industrial chemicals, and environmental matrices. The workshop emphasis is on the fundamental, application, and hands-on operation of capillary electrophoresis.

COURSE FEES, REGISTRATION AND DEADLINE

The course fee is MYR 750 for UTM staff/students and MYR 950 for non-UTM participants (inclusive of 6% GST). Due to space limitation, we can only accept 30 participants and the registration deadline is on 31 Aug 2015.

Registration can be made by filling up the attached registration form.

Any enquiry, please contact:

Dr. See Hong Heng

hhsee@ibnusina.utm.my / hhsee@utm.my

Workshop Instructors



Professor Michael Breadmore is a ARC Future Fellow at the Australian Centre for Research on Separation Science (ACROSS) based at the University of Tasmania, Australia. He is currently a member of the Editorial Board of Journal of Chromatography A and Electrophoresis. His research interests lie in the application of capillary and microchip electrophoresis for the trace analysis of environmental, clinical and forensic samples.



Dr See Hong Heng is currently a senior lecturer at the Universiti Teknologi Malaysia (UTM) as well as a visiting lecturer at the University of Tasmania, Australia. He completed his PhD in 2010 followed by a postdoctoral research fellowship at the University of Basel, Switzerland (2010-2013). His research interest focuses on development of new sample preparation method and application of capillary and microchip electrophoresis.



Dr Aemi S. Abdul Keyon is currently a senior lecturer at the Universiti Teknologi Malaysia (UTM). She completed her PhD in 2014 at the University of Tasmania, Australia. Her research interests lie in the application of capillary and microchip electrophoresis and new method development in pre- and post-column derivitization for detection in capillary electrophoresis.

Tentative Program:

Wednesday, 21st October 2015

8.30 – 8.50 am	Registration
8.50 – 9.00 am	Welcoming address by Director of CSNano, UTM – Prof. Dr. Hadi Nur,
9.00 – 10.15 am	First Session: <i>Introduction to capillary electrophoresis</i> Prof. Dr. Michael C. Breadmore (University of Tasmania, Australia)
10.15 – 10.45 am	Break
10.45 – 12.00 pm	Second Session: <i>Modes of operation in capillary electrophoresis</i> Dr. See Hong Heng (Universiti Teknologi Malaysia, Malaysia)
12.00 – 12.30 pm	Third Session: <i>Technical Presentation by eDAQ Pty Ltd, Australia</i> Dr. Oliver Woodhouse, eDAQ Pty Ltd, Australia.
12.30 – 2.00 pm	Lunch
2.00 – 3.30 pm	Hands on workshop (part 1) Preparation of fused silica capillaries for CE (<i>Skills taught: types of capillary, capillary cutting, creating "window" for UV detection, conditioning of capillary, etc</i>)
3.30 – 3.45 pm	Break
3.45 – 5.00 pm	Hands on workshop (part 2) Separation and quantification of inorganic cations and anions in environmental water samples using CE with contactless conductivity detection. (<i>Skills taught: Different injection mode: hydrodynamic vs electrokinetic injection method and optimizing C⁴D detector setting</i>)

Thursday, 22nd October 2015

8.30 – 9.00 am	Registration
9.00 – 10.15 am	Fourth Session: <i>Instrumentation and detection in capillary electrophoresis</i> Dr. Aemi S. Abdul Keyon (Universiti Teknologi Malaysia, Malaysia)
10.15 – 10.45 am	Break
10.45 – 12.00 pm	Fifth Session: <i>Method development in capillary electrophoresis</i> Dr. See Hong Heng (Universiti Teknologi Malaysia, Malaysia)
12.00 – 12.30 pm	Sixth Session: <i>Technical Presentation by Prince Technologies, BV</i> Ms. Thu Ba thi Nguyen, Product Manager Analytical Systems (Prince Technologies B.V.)
12.30 – 2.00 pm	Lunch
2.00 – 3.30 pm	Hands on workshop (part 3) Separation and quantification of drugs in human biological fluids using CE with simultaneous UV and contactless conductivity detection. (<i>Skills taught: plotting of calibration, data interpretation, and sample analysis</i>)
3.30 – 3.45 pm	Break
3.45 – 4.45 pm	Hands on workshop (part 4) <i>Introduction to Prince CE 800 series (System hardware and software introduction and demonstration)</i>
4.45 – 5.00 pm	Closing ceremony / Certificate presentation

Main organizer:



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Co-organizers:

