



AMAS XV 2019 – A Gathering of Microanalysis/Microscopy/Spectroscopy Experts

Date: February 11-15th

Venue: Brighton Savoy

Website: <http://www.microanalysis.com/AMAS2019>

AMAS XV is rapidly approaching and we have collected a wide range of local and overseas experts to be involved in both the workshops and symposia. Across the 12 workshops we have 18 factory/supplier experts from overseas, 9 international speakers and more than 20 local experts. A significant number of these experts will also be speaking in the symposium about the great science they are performing. This is a fantastic opportunity to speak with the experts, learn about their latest developments, and have techniques utilising the latest hardware and software explained. The scientific program is taking shape with the themes of the meeting bringing in experts in high resolution microscopy, SDD developments, advances in EELS, High speed EBSD, microanalysis and trace element quantification, various spectroscopies including Soft X-ray, cathodoluminescence and LIBS as well as advances in sample preparation techniques. The workshops will be based at both Monash University MCEM and CSIRO Clayton enabling some equipment at these facilities to be demonstrated together with lectures and discussions. For those staying at the Brighton Savoy for the week, buses will be supplied to transport attendees to the workshops for the Monday and Tuesday.

Invited International speakers are:

- Dr. Paul Carpenter (Washington University in St. Louis, U.S.A.)
- Prof. Raynald Gauvin (McGill University, Canada)
- Dr. Mike Matthews (Atomic Weapons Establishment, U.K.)
- Dr. Rhonda Stroud (US Naval Research Laboratory, U.S.A.)
- Prof. Masami Terauchi (Tohoku University, Japan)
- Prof. Nestor Zaluzec (Argonne National Laboratory, U.S.A.)
- Dr. Heather Lowers (USGS, U.S.A.)

The symposia will be held at the Brighton Savoy, running Wednesday 13th to Friday 15th. One of the aims of AMAS conferences continues to be a place where students and early career researchers (ECR) feel at ease presenting. Students are being offered a discounted registration to encourage them to attend. EMAS and AMAS have generously donated an award to attend and present at the next EMAS meeting to be held in Trondheim.

For updates on the conference, associated workshops, conference accommodation and sponsors please refer to the website. Information on social program will be released closer to the meeting.

Planned workshops:

- Soft x-ray/Light element analysis: Prof. Masami Terauchi (Tohoku Uni, Japan), Dr. Takanori Murano (JEOL Japan), Colin MacRae (CSIRO), Dr. Nick Wilson (CSIRO), Dr. Salvy Russo (RMIT Uni), Dr. Stephen Seddio (Thermo Fisher Scientific), and Dr. Jeff Davis (PN detector)
 - SEM and EPMA based detector systems
 - Grating spectrometers and Windowless-SDD
- Low Voltage EELS: Convenor Prof. Raynald Gauvin (McGill Uni) and Prof. Nestor Zaluzec (Argonne National Laboratory)
- High Resolution-SEM: Dr. Peter Miller (Monash Uni)
- Cathodoluminescence – developments and applications: Dr. Amelia Liu (Monash Uni), Prof. Matthew Phillips (Uni Technology Sydney), Dr. David Stowe (GATAN) and DELMIC
 - Angular resolved CL
 - Trace element speciation
 - Detector types CCD vs. photomultiplier - spectral, multicolour, monochromatic
- Materials Characterisation by EBSD: Dr. Matt Glenn (CSIRO), Dr Mark Pearce (CSIRO), Dr. Julie Sheffield-Parker (Nanospec), Dr. Patrick Camus (EDAX), Dr. Mark Naive (Deakin Uni.)
 - Focus on Light Metals and Alloys
 - Latest developments in detectors for speed and high pattern resolution
- Advanced EPMA: Dr. Paul Carpenter (Washington Uni), Dr. Karsten Goemann, Hiroyuki Yamada (JEOL), Colin MacRae (CSIRO), Dr Nick Wilson (CSIRO), Dr. Masaru Takakura (JEOL) and Aaron Torpy (CSIRO)
 - Microanalysis and mapping
 - Quantification of hydrated materials
 - Cold stage EPMA mapping and analysis
- μ -XRF of geological samples: Covering SEM based μ XRF and Laboratory based μ XRF, software and techniques: Aaron Torpy (CSIRO), Dr. Louis Fisher (CSIRO), Dr. Steven Barnes (CSIRO), Dr. Gareth Moorhead (CSIRO), Dr. Benjamin Stripe (Sigray), and Dr. Jeff Davis (PN detector)
- Mechanical specimen preparation: Cameron Davidson (CSIRO) and Russell Dobson (Kemet)
- Sample Preparation of reactive materials: Plasma cleaning, Ion beam milling, Inert transfer: Cameron Davidson (CSIRO), Dr. Karoly Havavcsak (Technoorg Linda), Dr Scott Merrington (Leica)
- Laser Induced Breakdown Spectroscopy: Steve Tassios (CSIRO), Dr. Doug Body (Elementia Consulting), Dr François R. Doucet and Dr Lütfü Özcan (Elemission, Canada)
- EM Maintenance: Dr. Ric Wuhrer (Uni. Western Sydney), Ken Moran (Moran Scientific)
- Large Area Mapping: Aaron Torpy (CSIRO), Dr. Stephen Seddio (Thermo Fisher Scientific), Dr. Julie Sheffield-Parker (Nanospec)