

# EMAG 2018

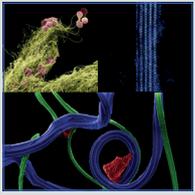
Applications of Electron Microscopy  
to Beam Sensitive Materials

4–6 July 2018

University of Warwick, Warwick, UK

Organised by the IOP Electron Microscopy and Analysis Group

<http://emag2018.iopconfs.org/>



## EMAG 2018

Applications of Electron Microscopy  
to Beam Sensitive Materials

The spectacular improvement in Electron Microscopy equipment and techniques are making a profound impact in materials research in general. Specific to this are the development of low voltage microscopy, cryo-electron microscopy, a new generation of direct electron detectors and advanced image/spectra analysis to provide new insights in to electron beam sensitive materials. Additionally, the development of in situ electron microscopy techniques is enhancing understanding of material dynamics. EMAG 2018 will bring these aspects together to showcase state-of-the-art analysis at a focussed conference on “Applications of Electron Microscopy to Beam Sensitive Materials”.

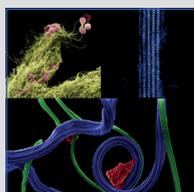
The Electron Microscopy and Analysis Group meeting brings together the UK electron microscopy, physical sciences community as well as leading international researchers. It has been a prominent event since the inaugural gathering in 1946, being one of the longest running electron microscopy conferences in the UK. One of the main attractions of EMAG is that it is a platform for students to present their work, alongside more established researchers.

EMAG 2018 will be held at the University of Warwick, on the 4th-6th July 2018. The conference will focus on Applications of Electron Microscopy to Beam Sensitive Materials. Several distinguished speakers will present the state-of-the-art in their field, alongside contributed oral presentations as well as poster sessions. Prizes will be awarded to the best student contributions. There will also be a table-top trade exhibition, involving some of the largest manufacturers of electron microscopes and other scientific instruments.

Conference delegates will be able to enjoy a dinner in the historic Warwick Castle, while accommodation can be booked at the University of Warwick, which is within walking distance of the conference centre.

Further details can be found at the conference website <http://emag2018.iopconfs.org/>

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## EMAG 2018

Applications of Electron Microscopy  
to Beam Sensitive Materials

### The themes of EMAG2018 will be:

- Low dose electron microscopy techniques
- Ultra low voltage microscopy
- Cryo-electron microscopy
- Environmental, dynamic and time resolved microscopy
- Innovative data acquisition and processing

Oral and poster contributions within any of these themes are invited.

### These may address topics such as:

- Advances in low dose imaging and spectroscopy (SEM/(S)TEM/Ion Beam)
- Dynamic SEM/(S)TEM. In situ microscopy techniques
- Tomography
- Electron diffraction
- Beam writing
- Beam-material interaction mechanisms
- Camera and detector technology
- Smart collection (e.g. compressed sensing)
- Low dimensional materials
- Soft matter and hybrid materials
- Catalysis
- Biological and natural materials

### Key dates

<b>Call for abstracts</b>	January 2018
<b>Abstract submission deadline</b>	7 April 2018
<b>Early registration deadline</b>	25 May 2018
<b>Registration deadline</b>	27 Jun 2018

### Plenary and invited speakers (confirmed)

- Prof. R Egerton (University of Alberta, Canada)
- Prof. K Suenaga (National Institute of AIST, Japan)
- Prof. N Browning (University of Liverpool, UK)
- Prof. N Sommerdijk (Technische Universiteit Eindhoven, Holland)
- Prof. E Besley (University of Nottingham, UK)
- Dr L Jones (Trinity College Dublin, Ireland)
- Dr S Boden (University of Southampton, UK)

### Organizing committee:

- Dr A M Sanchez (Chair; University of Warwick)
- Dr R Beanland (Co-opted, University of Warwick)
- Dr S Haigh (University of Manchester)
- Dr A Brown (University of Leeds)
- Dr Z Li (University of Birmingham)
- Prof. J Yuan (University of York)
- Dr M Dixon (Hitachi)
- Dr C Rodenburg (University of Sheffield)
- Dr L Stoter
- Dr D Maclaren (University of Glasgow)
- Dr S Karimi (JEOL)
- Dr T Slater (Co-opted, University of Manchester)

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