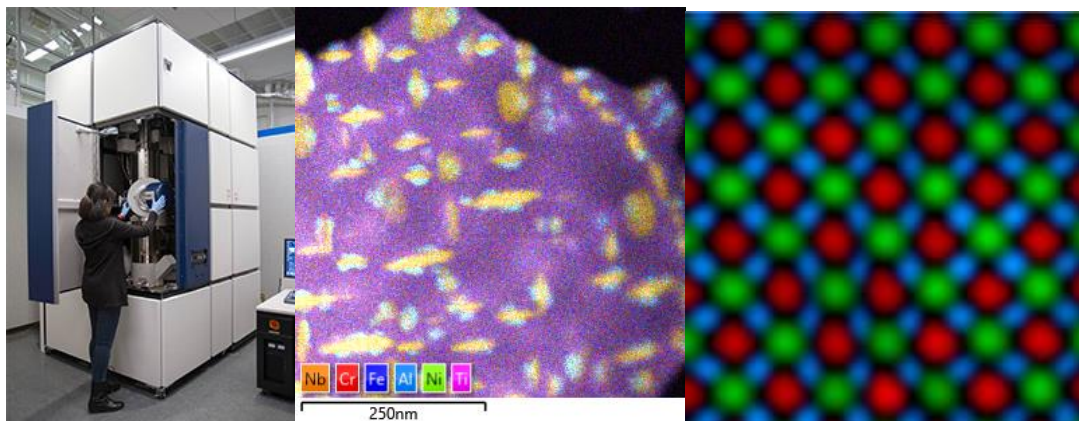


Frontiers in Microscopy & Microanalysis – Extreme EDS. **Dr. James Sagar, Oxford Instruments NanoAnalysis, UK.**

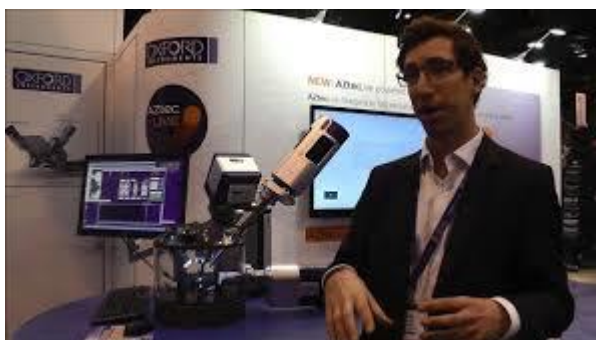
Electron microscopy and microanalysis lead-researchers, users and aspiring users are invited to attend *Frontiers in Microscopy and Microanalysis*, a series of lectures and practicals, at the Hawken Laboratory 17th to 19th September. Dr. James Sagar of Oxford Instruments is our invited speaker. This will be an opportunity for users to get hands-on experience on our microscopes, including our exciting new Hitachi HF5000 aberration corrected high resolution TEM.



Date: Sept 17-19, 2018
Location: St Lucia Campus
Lecture Room: AIBN Bdg 75.
Tutorial Room: Hawken Electron Microscopy Laboratory, Bdg. 50 Level 1

Biography: Dr. James Sagar.

For the last three years James has managed the portfolio of Oxford Instruments EDS for TEM. He is also the product manager for low kV EDS in the form of the Extreme EDS detector. Before joining Oxford, James carried out postdoctoral research at University College London focusing on electron transport in nanostructured devices fabricated by focused ion beams. Before that he gained his PhD in Physics from the University of York when he used TEM and STEM to characterise the structural and interfacial properties that govern electron transport in spintronic devices.



James will talk about the latest developments in TEM microanalysis and quantitative analysis in *Frontiers in Microscopy and Microanalysis*:

Program

Monday 17th September.

10.00 am. Lecture/Tutorial. AIBN Bdg 75. Introduction to X-ray analysis on the AZtec system for TEM.

11.15 am. Off line practicals, AZtec TEM, Hawken Laboratory Bdg. 50 Level 1.

2.00 pm. Microscope familiarisation and focussed training for lead-researchers. Hawken Electron Microscopy Laboratory, Bdg. 50 Level 1.

Tuesday 18th September.

10.00 am. Lecture. Extreme low voltage (low Z), high sensitivity, X-ray analysis, including detection of Li. AIBN Bdg 75.

11.15 am. Off line practicals, AZtec Extreme low voltage EDX, Hawken laboratory Bdg. 50 Level 1.

2.00 pm. Hands-on at the microscope, Aztec familiarisation for users, getting the most out of the system, Hawken Electron Microscopy Laboratory, Bdg. 50 Level 1.

Wednesday 19th September.

10.00 am. Lecture. Aztec “Live” real time X-ray imaging for SEM. Ultim Max high throughput large area X-ray detectors for SEM and TEM. AIBN Bdg 75, L1 lecture theatre.

11:15 am. UQ research talks x4 15minutes each with questions?

2.00 pm. Hands-on at the microscope, getting the results that you need from the microscope, Hawken Electron Microscopy Laboratory, Bdg. 50 Level 1.

Places on the practicals are limited by space at the microscope, get in early to reserve your spot. RSVP to Graeme Auchterlonie <g.auchterlonie@uq.edu.au>