

In situ electron microscopy techniques

is hosting a seminar and workshop on

July 4th, 2019

Seminar Topic

Modern in-situ electron microscopy techniques

Presenter

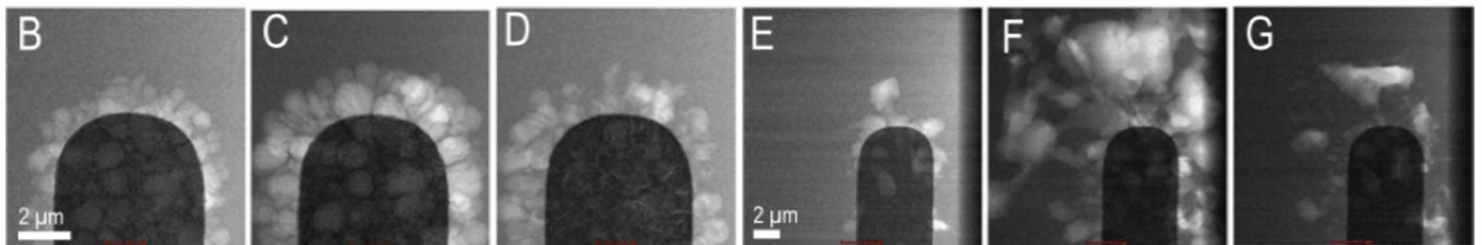
ZiBin Chen, Application Scientist of Scitek

Abstract

In-situ electron microscopy is a state-of-art powerful technique in material research, chemistry, biology, and physics. Capable of being used as a normal electron microscope with an in-situ holder, environmental electron microscope, or a fast speed camera providing ultra-fast recording rates, and in-situ recording functions. In-situ techniques allow people to simulate different conditions (e.g. environmental, mechanical, chemical, thermal, and electrical conditions) in an electron microscope and observe the dynamic process in realtime with ultra-high resolution.

Within this seminar, various modern in-situ techniques, including in-situ (thermal, electrical, gas and liquid) holders and fast cameras with in-situ recording functionality will be introduced with relevant application cases.

A workshop will be held after the seminar, showing the novel MEMS-based electrothermal technology allowing imaging at elevated temperatures up to 1,200°C with heating, and cooling rates of 10⁶ °C/s, whilst providing electrical stimulation.



July, 4th Seminar

Time: 10:00 - 11:00

Location: AIBN, Level 1 seminar room

July, 4th Workshop

Time: 14:00 - 16:00

Location: Centre of microscopy and microanalysis, FEI F20 FEG-STEM



Register & RSVP

Name : ZiBin Chen
Email : Zibin@scitek.com.au

Name : Graeme Auclerlonie
Email : g.auclerlonie@uq.edu.au