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.

Figure 1.0 - Water as an additive to tune lithium ion battery efficiency

June 14th, Seminar
Time : 11:00 - 12:00
Location: Monash Centre of Electron Microscopy

June 14th, Workshop
Time : 14:00 - 16:00

Register & RSVP
Name : ZiBin Chen
Phone : 0447 818 577
Email : Zibin@scitek.com.au

Name : Neville Wallis
Phone : 0413 756 228
Email : Neville@scitek.com.au