

Monash Centre for Electron Microscopy Seminar

Imaging low contrast materials using novel TEM techniques



**Monday 10 April,
2017**



11.30AM



**SCIENCE THEATRE S9
16 RAINFOREST WALK
MONASH UNIVERSITY
CLAYTON CAMPUS**



Presenter
Dr Chris Boothroyd
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Abstract

Many organic materials contain structural features on the scale of tens of nanometres or less for which transmission electron microscopy is the only technique with sufficient resolution to allow structural imaging in any detail. An example is organic solar cells where the donor and an acceptor phases are two conducting polymers and their distribution is critical to the performance of the device. Unfortunately such materials also have very low contrast, making the phase distribution invisible in normal bright-field images. We have been investigating plasmon-loss energy-filtered electron microscopy and electron holography as alternative imaging methods and will discuss the effectiveness and prospects for these novel imaging techniques.

Convenor: Professor Joanne Etheridge
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