



School of Earth Sciences Seminar Series

Dr. Jeremy Shaw
Biological Science, CMCA

X-ray microscopy: A powerful research tool for imaging, analysis and visualisation

The School of Earth Sciences is pleased to invite you to a Lecture in the SES Seminar Series given by Dr. Jeremy Shaw entitled “X-ray microscopy: A powerful research tool for imaging, analysis and visualisation”

Imagine a technique that requires minimal or no sample preparation and allows you to explore the internal structure of your sample down to the micrometre scale without the need for a single cut. This can be achieved using X-ray microscopy (XRM), which uses the penetrative power of X-rays to “non-destructively” image through materials. The technique is highly flexible, with wide ranging applications in biological, geological and materials science, and is widely used within the resources sector. The Centre for Microscopy, Characterisation and Analysis (CMCA) at UWA has two X-ray imaging systems and this seminar will cover the basics of the XRM technique and its applicability to geological studies.

Dr Jeremy Shaw is Technique Group Leader for X-ray microscopy and Applications Group Leader for Biological Science at the CMCA. With roots in marine science and the use of multiple imaging and microanalytical techniques to study biomineral formation in marine molluscs, Dr Shaw has experience in characterising a broad range of sample types that often cross the boundaries between the biological, geological and materials sciences.

VENUE Woolnough Lecture Theatre (1.07), Geography and Geology Building
University of Western Australia, 35 Stirling Hwy, Crawley 6009
Pay parking is available along Fairway (approx. \$1per hour)

TIME **4:00 - 4:45pm Thursday 20th July, 2017**

You are invited to join us afterwards for refreshments provided for sale by our local SEG Student Chapter in the Resource Room, Robert Street Building.

