

X-ray Imaging: Cryo, Spectroscopy and Tomography for Environmental Science

Frontiers in Chemical Imaging Seminar Series

Presented by...

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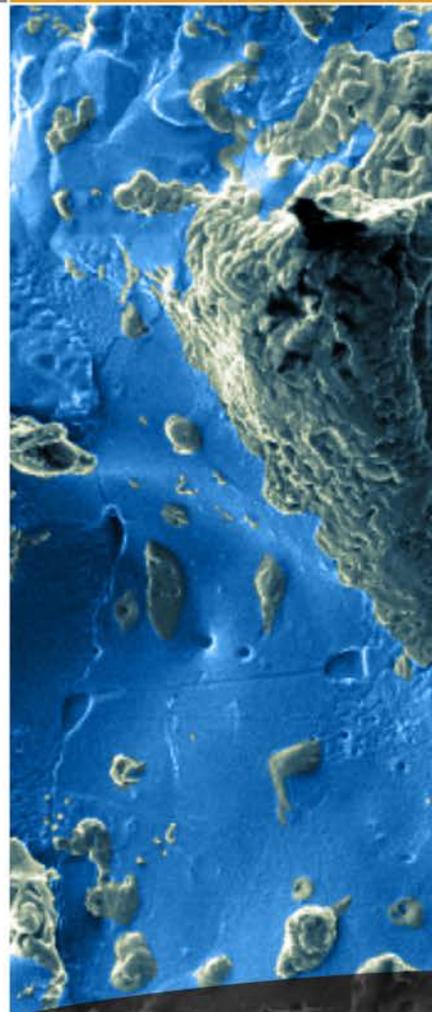
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Abstract

X-ray microscopes can image specimens that are 1-1000 micrometers thick in natural conditions, so that they nicely complement electron microscopes. New capabilities in x-ray microscopy are described: the ability to measure organic chemistry speciation at 50 nanometers resolution or better, and the ability to measure trace elements at concentrations approaching a part per billion. Enhancements to these basic capabilities include 3D imaging via tomography, the correlation of heavy elements with soft material ultrastructure, and the use of cryogenic specimens to minimize the effects of radiation damage. These and other advances in synchrotron-based x-ray imaging will be described.

More info?

<http://xrm.phys.northwestern.edu/~jacobsen/index.html>



Date: February 7

**Location: ETB
Columbia River Rm**

Time: 11:00am