THE UNIVERSITY OF SYDNEY

Introduction to SAXS

A practical introduction to small angle X-ray scattering for Materials and soft matter research

When
Tue 8th & Wed 9th October 2019
9am – 12pm

Where
Madsen building F09
Room 236

Who
This course will be run by Professor Greg War for Sydney Analytical core research facility.

Cost
$50

To Register (or for more information) contact
Paul FitzGerald
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Course description
This short two part workshop provides a practical hands-on introduction to small-angle X-ray scattering (SAXS), mainly focused on scattering for materials and soft matter research.

SAXS is routinely used to characterise a vast array of samples including polymers, microemulsions, proteins, membranes, glasses, gels, rocks and other porous media, etc.

SAXS studies matter on the length scale of 1-100nm, and is often used as a complementary technique to electron microscopy techniques, although typically with significantly shorter preparation times.

This course will teach researchers how to plan and run SAXS experiments, assess data quality and perform routine analysis. Participants will also be able to critically read the scattering literature as it pertains to their own research.

The course will be run over two half day sessions and will be a mixture of introductory theory and practical data analysis.

What to bring
This course uses the SASView 4.2.2 software and participants should bring their own laptop with the software pre-installed.
The software can be obtained free for use from:
https://www.sasview.org/