

# **Australasian Soft Matter Scattering Workshop**

Thursday 11 February 2016 - Friday 12 February 2016

RMIT University, City Campus, Melbourne

## **Book of Abstracts**



This workshop was designed to introduce researchers to a range of scattering techniques, with emphasis on their application to research in soft matter.

The workshop is suitable for experience researchers, ECRs and post-docs and PhD/Honours students.

The themes of the workshop are:

- Introduction to scattering formalism (applied to pulsed field gradient NMR, neutron, X-ray and light scattering techniques).
- Research seminars highlighting how these techniques have been applied to soft matter research.
- Data reduction, analysis and interpretation.
- The practicalities of accessing instrumentation, both laboratory based and at major facilities.



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## **Introduction to Scattering**

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## **High-throughput SAXS characterisation and data analysis of lipid self-assembly materials**

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## **SAXS analysis of nanopores collapse across polystyrene membranes during water evaporation**

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## **Liquid nanostructure of ionic liquids from small angle X-ray scattering**

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## **Introduction to Light Scattering: Getting the most out of DLS and SLS**

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## **An introduction transmission SAXS.**

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## **Introduction to Reflectivity**

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## **Small and Wide Angle X-ray Scattering as a Complimentary Technique for the Determination of Amyloid Fibril Morphology**

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## **Resonant soft X-ray scattering**

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## **Grazing incidence X-ray scattering**

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## **X-ray scattering imaging and tomography of soft tissue**

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### **Supercooled Liquids: Determining the Role of Dynamics and Symmetry in Molecular Ordering**

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### **Reflectivity, a tool for studying functionalised nanoemulsions**

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