

# Small Angle Scattering 2021

## SAS2021

2<sup>nd</sup> ANSTO Small Angle Scattering Workshop

Wednesday 1 December 2021

Program	
10:00 – 10:15	<b>Welcome address and general introduction to SAS2021</b> Prof. Michael James   ANSTO
10:15 – 10:30	<b>Housekeeping instructions</b> Dr. Christina Kamma-Lorger   ANSTO
10:30 – 11:30	<b>Scattering Theory</b> Dr. Nigel Kirby   ANSTO
11:30 – 12:00	<b>SAXS / BioSAXS instrumentation</b> Dr. Christina Kamma-Lorger   ANSTO
12:00 – 13:00	<b>Lunch break</b>
13:00 – 13:30	<b>SANS / USANS instrumentation</b> Dr. Jitendra Mata   ANSTO
13:30 – 14:15	<b>Sample environment for SANS</b> Dr. Norman Booth   ANSTO
14:15 – 15:15	<b>Sample environment for SAXS</b> Dr. Susi Seibt, Dr. Tim Ryan & Dr. Andrew Clulow   ANSTO
15:15 – 15:30	<b>Coffee break</b>
15:30 – 17:00	<b>Practical session 1</b> <b>Split group on breakout sessions</b> <ul style="list-style-type: none"><li><b>SAXS data collection and reduction</b> Dr. Stephen Mudie &amp; Dr. Andrew Clulow   ANSTO</li><li><b>SANS data collection and reduction</b> Dr. Anna Sokolova   ANSTO</li></ul>

Thursday 2 December 2021

Program	
10:00 – 11:00	<b>Modelling Part I: Shape independent modelling</b> Dr. Paul Fitzgerald   University of Sydney
11:00 – 12:00	<b>GI-SAS theory</b> Prof. Chris McNeil   Monash University
12:00 – 13:00	<b>Lunch break</b>

### ANSTO LOCATION

Australian Synchrotron  
NCSS Auditorium  
800 Blackburn Road,  
Clayton, VIC 3168

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### EMAIL

sasworkshop@ansto.gov.au

### SOCIAL



### WEBSITE

<https://www.ansto.gov.au/whats-on/ansto-small-angle-scattering-workshop>

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13:00 – 13:45	<b>Modelling Part II: Shape dependent modelling</b> Dr. Andrew Whitten   ANSTO
13:45 – 14:15	<b>Molecular Deuteration for Small Angle Neutron Scattering</b> Dr. Anthony Duff   ANSTO
14:15 – 14:45	<b>SAS Proposal Writing</b> Dr. Cathy Harland   ANSTO
14:45 – 15:30	<b>Coffee break and Beamline tour videos</b>
15:30 – 17:00	<b>Practical session 2</b> <b>Split group on breakout sessions</b> <ul style="list-style-type: none"> <li><b>SAXS data analysis for solution scattering</b> Dr. Andy Clulow &amp; Dr. Lester Barnsley   ANSTO</li> <li><b>SANS/USANS data analysis - SLD calculation, Shape independent analysis, SASview tutorial</b> Dr. Jitendra Mata   ANSTO</li> </ul>

Friday 3 December 2021

Program	
10:00 – 10:30	<b>Model-free 3D density reconstructions of soft matter using small angle scattering</b> Dr. Thomas Grant   University at Buffalo
10:30 – 11:00	<b>Chemistry</b> Prof. Namita Roy Choudhury   RMIT University
11:00 – 11:30	<b>Structural Biology</b> Dr. Agata Rekas   ANSTO
11:30 -12:00	<b>Membranes</b> Dr. Khay Fong   University of Newcastle
12:00 – 13:00	<b>Lunch break</b>
13:00 – 13:30	<b>Food and food colloids</b> Dr. Elliot Gilbert   ANSTO
13:30 – 14:00	<b>Hard matter</b> Dr. Anna Sokolova   ANSTO
14:00 – 15:00	<b>Coffee break and Quiz competition</b>
15:00 – 16:30	<b>Practical session 3</b> <b>Split group on breakout sessions</b> <ul style="list-style-type: none"> <li><b>SAXS data analysis for material sciences</b> Dr. Susi Seibt &amp; Dr. Tim Ryan   ANSTO</li> <li><b>SANS/USANS data analysis - SASview, USANS, desmeared vs smeared data</b> Dr. Liliana de Campo   ANSTO</li> </ul>
16:30 – 17:00	<b>Quiz awards and closing remarks</b>

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