ANBUG-AINSE Neutron Scattering Symposium 2026

PROGRAM

DAY 1 | MONDAY, 23 NOVEMBER

11:00	**Registration opens – AINSE Theatre Foyer**	
11:45	Light lunch available	
12:45	**Welcome Address, Acknowledgment of Country & Housekeeping	Michael Preuss & Karyn Wilde**	
**Session 1 - ANSTO Facility Updates	Karyn Wilde**		
13:00	**Jamie Schulz - ACNS Director, ANSTO** Update from the Australian Centre for Neutron Scattering	#44
13:30	**Tamim Darwish - NDF Director, ANSTO** Updates on ANSTO's National Deuteration Facility & the Deuteration Network	#41
14:00	Stretch break	
14:15	**Plenary - Norman Wagner, University of Delaware**	
**Session 2 - Chemistry & Crystallography	Erica Wanless**		
15:15	**Jennifer Stansby - University of New South Wales** What can neutron scattering tell us about nuclear fuels?	#53
15:30	**Sophie Fletcher - The University of Sydney** Structural evolution in charge-compensated uranium-doped pyrochlores	#3
15:45	**Jesper Simonsen - Aarhus University** Synthesis & characterisation of zinc- & zinc-cobalt-substituted X-type hexaferrite	#50
16:00	**Brendan Kennedy - The University of Sydney** Pressure & Temperature Induced Phase Transitions in Bi & Tl containing Scheelite Type Oxides	#43
16:15	Poster Slam	
16:40 – 18:00	**Poster Session & Networking Afternoon Tea – nandin**	

Welcome to AANSS2026!

AANSS is the biennial symposium of the Australian and New Zealand neutron scattering community.

For 3 days, local and international users of Australia's neutron research infrastructure and global experts on neutron instrumentation gather together to share science talks and poster presentations across 8 themes.

ANBUG

AINSE
THE AUSTRALIAN INSTITUTE OF NUCLEAR SCIENCE AND ENGINEERING

ANBUG-AINSE Neutron Scattering Symposium 2026

PROGRAM

DAY 2 | TUESDAY, 24 NOVEMBER

9:00	**Plenary - Anna Paradowska, The University of Sydney/ANSTO**	
Session 3 - Magnetism & Condensed Matter | Kirrily Rule		
10:00	**Clemens Ulrich - University of New South Wales** Competing exchange interactions: the spin wave dispersion of the helical spin systems SrFeO3 & CaFeO3 revealed by inelastic neutron scattering	#32
10:15	**Juliana Avtarovski - University of Wollongong** Revealing unconventional magnetic phases in the frustrated quantum magnet, clinoatacamite, Cu2Cl(OH)3	#40
10:30	**Shinichiro Yano - NSRRC** Nuclear spin excitations & quasi-elastic neutron scattering (QENS) of Ho compounds	#4
10:45	Morning Tea	
Session 4 - Neutron Instruments & Techniques | Jitendra Mata		
11:05	**Keynote/Invited – Andrew Nelson, ANSTO** Stroboscopic Neutron Scattering with a Raspberry Pi-Based Sample Environment Event Mode	#13
11:35	**Ulf Garbe - ANSTO** Using AI to counter AI: memory-efficient, cross-platform tomographic reconstruction for neutron imaging	#42
11:50	**Pablo Galaviz Vilchis - ANSTO** Atomistic simulations for Inelastic Neutron Scattering Experiments	#25
12:05	**Bryce Mullens - ANSTO** Anything but Average: Revealing Local Structure with Neutron Total Scattering	#45
12:20	**Michelle Durant - Managing Director, AINSE**	
Session 5 - ANBUG 2026 Award Presentations and AGM | Michael Preuss		
12:40	Lunch	
13:40	ANBUG Career Award	
14:00	ANBUG Neutron Award	
14:20	ANBUG Technical Award	
14:40	ANBUG Outstanding PhD Award (Soft Condensed Matter)	
15:00	ANBUG Outstanding PhD Award (Hard Condensed Matter)	
15:20	ANBUG Early Career Scientist Award	
15:40	Afternoon Tea	
16:00	ANBUG AGM	
16:45	**Special Keynote/Invited - Giovanna Fragneto, European Spallation Source (ESS)**	
17:30	Short break & travel to dinner	
18:00	**Symposium Dinner - Rocksalt, Menai**	

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DAY 3 | WEDNESDAY, 25 NOVEMBER

9:00	**Plenary - Hiroyuki Aoki, J-PARC**	
Session 6 - Advanced Materials | Michael Preuss		
10:00	**Garv Bhardwaj - Monash University** Multi-modal characterisation of Ag–Pt nanoprisms to resolve structural & optical heterogeneity	#55
10:15	**Geran Dunlop - University of Newcastle, AU** Multi-instrument neutron scattering study of silica nanoparticles in hypersaline conditions	#20
10:30	Morning Tea	
Session 7 - Magnetism & Condensed Matter | Kirrily Rule		
10:50	**Manu Mohan - University of Canterbury, NZ** Field-Induced Evolution & Relaxation of the Spin Cycloid in $BiFeO_3$ thin films	#48
11:05	**Trevor Finlayson - University of Melbourne** The Martensitic Transformation in In-Tl Alloys Revisited	#2
11:20	**Riley Griffiths - University of New South Wales** Mind the mJ Gap: Thermal Triple Axis Neutron Scattering Measurement of A Hydrogenous Dysprosium Single Molecule Magnet	#47
Session 8 - Biological Systems & Soft Matter / Deuteration for Neutrons | Karyn Wilde		
11:35	**Keynote/Invited - Alice Tiong, CSIRO** When Neutrons Meet Plant Proteins: Peering into Extrudate Structure Across Length Scales	#46
12:05	**Zac Pietro - University of Newcastle, AU** Neutron reflectometry reveals unexpected interfacial structures in a thermoresponsive polymer brush	#15
12:20	**Joshua King - ANSTO** The structure & dynamics of lipid domains formed in the presence of a plant sterol	#34
12:35	**Michael Moir - ANSTO** Deuterium labelled lipids to study lipid nanoparticles for mRNA delivery	#57
12:50	Lunch	
Session 9 - Manufacturing, Engineering & Industry | Anna Paradowska		
14:10	**Wlla Abbad - The University of Sydney** Residual stress and defect assessment in Additive Friction Stir Deposited AA6061–Steel Structures	#17
14:25	**Vladislav Yakubov - The University of Sydney** Unveiling the Layer-Wise Precipitation Behaviour in Additive Friction Stir Deposition of Aluminium - A Multi-Scale Investigation	#1
14:40	**Abila Anayet - The University of Sydney** Neutron Diffraction Measurements of Residual Stress in Structural Steel T-Joints for Fatigue Assessment	#8
14:55	**Min Chang Wu - The University of Sydney** Probing Hydrogen-Induced Microstructural Changes in Additively Manufactured 316L Stainless Steel Using Multiscale Neutron Scattering	#38
15:10	Afternoon Tea	
15:25	**Q&A Session - Jamie Schulz | Michael Preuss**	
16:15	**AANSS 2026 Closing**	