ACNS & NDF Clip Day 2024 Program
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ACNS & NDF Clip Day 2024 Program			
THURSDAY 6TH JUNE 2024 @ AINSE THEATRE			
7:30	Bus departs Cronulla	Rydges Hotel	
8:00	Breakfast and registration	ANSTO Cafe	
Session 1 : Welcome & Reflectometry theme			
9:00	Welcome	Anton Stampfl	
9:10	ACNS Update	Jamie Schulz	
9:30	Instrument group talk - Reflectometry	Andrew Nelson	
9:45	Nanostructure Explains the Behaviour of Slippery Covalently Attached Liquid Surfaces	Isaac Gresham	
10:00	An introduction to the in situ study of electrodes for electrochemical ammonia synthesis via neutron reflectometry	Beck Hodgetts	
10:15	A Reduced Bias Method to Model Time-Resolved Neutron Reflectometry Data	Callum Weir-Lavelle	
10:30	Morning tea	AINSE Corridor	
11:00	AINSE Update	Michael Rose	
Session 2: Inelastic scattering theme			
11:15	Instrument group talk – Inelastic scattering	Anton Stampfl	
11:30	Understanding the complex magnetic effects in a low-dimensional frustrated magnet through inelastic neutron scattering	Jackson Allen	
11:45	Inelastic Neutron Scattering to Investigate Lanthanoid Electronic Structure and Radical Exchange	Marcus Giansiracusa	
12:00	Design crystalline thermoelectric materials with low lattice thermal conductivity	Meng Li	
12:15	Lunch	AINSE Corridor	
Session 3: Small angle scattering theme			
1:15	Instrument group talk – Small angle scattering	Andrew Whitten	
1:30	Revisiting the precipitation behaviour in Ti-Mo steel using Small angle neutron scattering	Baoqi Dong	
1:45	Exploring Microemulsion Electrolytes: Correlation of Structure to Electrochemical Performance	Ali Salisu	
2:00	Copolymers of Gelatin-graft-poly(3-hexylthiophene) for Transient Electronics	Xin Sun	
2:15	The nanoarchitecture of mRNA-loaded lipid nanoparticles: Insights from a small-angle neutron scattering perspective	Haikun Liu	
2:30	Localization of monomers within hexagonal packing system for precise administration of nanofiltration membrane structures	Senlin Gu	
2:45	Unraveling the Effect of Concentrated Electrolytes on Polyelectrolyte Brush Morphology	Geran Dunlop	
3:00	Afternoon tea	AINSE Corridor	
Session 4: Industry, imaging theme			
3:30	Instrument group talk - Imaging	Floriana Salvamini	
3:45	Industry Talk	Anna Paradowska	
4:00	Micro-CT application of bioinlcusions in Australian amber	Maria Blake	
4:15	Residual stress and material characterisation of Wire-Arc additively manufactured structural steel components	Markus Domogala	

Wire-Arc additively manufactured structural steel components

	THURSDAY 6TH JUNE 2024 @ AINSE THEATRE CONTIN	NUED
4:30	Characterisation of residual stress and defects in structure fabricated via additive friction stir deposition	Vladislav Yakubov
	Poster slam (3 mins per speaker)	
4:45	Subtle Crystal Field Modulation of Dy Single-Molecule Magnets	Stanley Bagio
	Synthesis and characterisation of hydrophobic polymer brushes composed of silicon methacrylates	Zac Di Pietro
	Residual stress and hydrogen embrittlement in Wire and Arc Additive Manufactured 316 stainless steel	Min Wu
	Enhanced Nitric Oxide Delivery Through Self-Assembling Nanoparticles for Eradicating Gram-Negative Bacteria	Xiangfeng Lai
	Magnetic Characterisation of the High Entropy Oxide La(Cr0.2Mn0.2Fe0. 2Co0.2Ni0.2)O3	Kayla Lord
	Effect of different toolpath strategies on surface properties of laser based directed energy deposited (L-DED) samples	Ikram Ul Hassan
	Revising Magnetic Features in a New 2D Ferromagnet Fe3GaTe2 with Above-room-temperature Tc	Molly You
5:30	Poster Session	ANSTO Cafe
6:30	Dinner	ANSTO Cafe
8:00	Bus to Rydges Hotel	Discovery Centre
	FRIDAY 7TH JUNE 2024 @ AINSE THEATRE	
	Hotel check out	Participants
7:45	Bus departs Cronulla	Rydges Hotel
8:20	Breakfast	ANSTO Cafe
	Session 5: Diffraction theme	
9:25	Instrument group talk - Diffraction	James Hester
9:45	The Effects of Doping on the Magnetic Transition Regions of the Skyrmion Hosting Material, Cu2OSeO3	Marco Vas
10:00	Development of active and stable cathode materials for protonic ceramic fuel cells	Desheng Feng
10:15	Structure optimizing and advanced characterization on the layered cathode for lithium-ion batteries	Jingxi Li
10:30	Ionic conductivity and local structure in sodium perovskite solid-state electrolytes	Mia Brennan
10:45	Morning tea	AINSE Corridor
	Session 6: Deuteration related theme	
11:15	National Deuteration Facility	Anwen Krause-Heue
11:30	Sample Environment	Tim D'Adam
11:45	Self Assembly in Water-in-Salt Electrolytes	Lucas Wong
12:00	How does a milk peptide improve the actions of an antifungal drug?	Lissy Hartmann
12:15	Proposal writing	Kirrily Rule
12:30	Feedback survey	Committee
12:40	Closing and awards	Jamie Schulz
1:00	Lunch	AINSE Corridor
2:15	Bus to Sutherland station	Discovery Centre