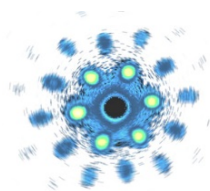


Neutron Scattering Symposium 2020

Wednesday 11th November - Day 1



Opening Michelle Durant - Managing Director AINSE Shaun Jenkinson - Acting CEO ANSTO		12:30	15 minutes	Leonie van't Hag
Abstract ID	Title	Start Time	Duration	Presenter
Award Prize Session - Session Chair Tracy Rushmer				
128	Student Award 2020	12:45	15 minutes	TBA
123	Dynamics in soft matter systems probed by small-angle neutron scattering	13:00	20 minutes	Rico Tabor
129	Young Scientist 2020	13:20	20 minutes	TBA
133	Understanding Energy Materials Function: Neutron Diffraction of Materials Not at Equilibrium	13:40	20 minutes	Vanessa Peterson
130	Neutron Award 2020	14:00	20 minutes	TBA
131	Career Award 2020	14:20	30 minutes	TBA
Break				
Annual General Meeting GM		15:00	60 minutes	Tracy Rushmer
Break				
Neutron Instruments & Techniques - Session Chair Kathleen Wood				
	The Australian Synchrotron – Supporting Australia’s Response to COVID-19	16:10	20 minutes	Mike James
46	Potential spectrometers for the hot neutron source at ACNS	16:30	20 minutes	Anton Stampfl
71	ANSTO’s National Deuteration Facility: Recent advancements and an overview on molecular deuteration capabilities for neutron applications.	16:50	20 minutes	Karyn Wilde
59	Trindex - 3D Grain Mapping with Neutron Imaging	17:10	20 minutes	Patrick Tung
61	ACNS SAMPLE ENVIRONMENT UPDATE	17:30	20 minutes	Timothy D'Adam
Break				
Plenary - Session Chair Livia Salvati Manni				
125	Neutron scattering for quantum magnetism	18:00	60 minutes	Andrey Zheludev - Plenary

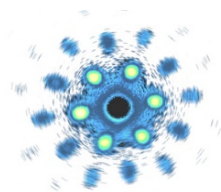


Neutron Scattering Symposium 2020

Thursday 12th November - Day 2 Morning



Abstract ID	Title	Start Time	Duration	Presenter
Biomedicine & Food Science - Session Chair Andrew Clulow				
126	Structural Insights into the Mechanism of Heat-Set Gel Formation of Polyisocyanopeptide Polymers	09:00	30 minutes	Gleb E Yakubov - Invited
88	Hyaluronic acid-poloxamer thermosensitive hydrogels studied by Small-Angle Neutron Scattering (SANS) and rheology: from nanostructure to biomedical applications	09:30	12 minutes	Anderson Ferreira Sepulveda
48	First extensive study of lanthanum manganite nanoparticles to target deadly brain cancer	09:42	12 minutes	Abass Khochaiche
89	Mixed gamma/neutron field in-vivo dosimetry using Metal-Oxide Semiconductor Field-Effect Transistor for Accelerator-Based Boron Neutron Capture Therapy	09:54	12 minutes	Klaudiusz Jakubowski
20	Neutron scattering for the study of casein gel microstructure during digestion	10:06	12 minutes	Meltem Bayrak
6	Oil-in-water emulsion system stabilized by emulsion droplets coated with whey protein microgels	10:18	12 minutes	Lirong Cheng
Break				
Chemistry & Crystallography - Session Chair Ian Gentle				
106	Atomistic modelling as a complementary tool for diffraction studies	10:45	20 minutes	Max Avdeev
55	Cation order in mixed metal bismuth scheelite Bi ₃ FeMo ₂ O ₁₂	11:05	20 minutes	Matilde Saura-Múzquiz
13	Role of A-site molecular ions dynamics in the polar functionality of perovskite metal-organic frameworks	11:25	20 minutes	Teng Lu
60	Hydration mechanisms and lattice distortions in 6H-Ba ₄ Ta ₂ O ₉	11:45	20 minutes	Chris Ling
62	Competitive specific ion effects: A neutron reflectometry study of thermoresponsive polymer brushes in mixed electrolytes	12:05	12 minutes	Hayden Robertson
4	Hydrogen-Bonded Anion Clusters in Choline Phenylalaninate, an Unexpected Origin of Nanostructure in Biocompatible Ionic Liquid	12:17	12 minutes	Shurui Miao
Break				

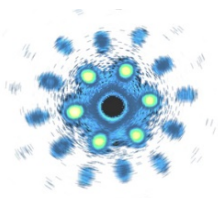


Neutron Scattering Symposium 2020

Thursday 12th November - Day 2 Afternoon



Abstract ID	Title	Start Time	Duration	Presenter
Earth & Environment - Session Chair Chris Wensrich				
95	Water dynamics in minerals on the surface of Mars	13:30	30 minutes	Gail Iles - Invited
3	Hydrohalite formation in frozen clay brines.	14:00	20 minutes	Will Gates
28	Tracking the diffusion of hydrogen rich liquids in shale rocks	14:20	12 minutes	Mohammed Siddiqui
Break				
Biological System - Session Chair Leonie van't Hag				
132	Model membrane systems: Applications in ocular drug delivery and antimicrobial actions	14:50	45 minutes	Hsin-Hui Shen - Keynote
76	Advancements in the provision of Deuterated Lipids for Neutron applications from the National Deuteration Facility	15:35	20 minutes	Rao Yepuri
37	Protein deuteration extending structural characterisations by Small Angle Neutron Scattering with Contrast Variation	15:55	20 minutes	Anthony Duff
7	Resolving the DNA interaction of the MexR antibiotics resistance regulatory protein	16:15	12 minutes	Francesca Caporaletti
Poster Slam				
	1 minute presentations	16:30	30 minutes	
Poster Session				
	Break out rooms	17:00	60 minutes	
Trivia Night - David Cortie				
	including live music	18:00	60 minutes	

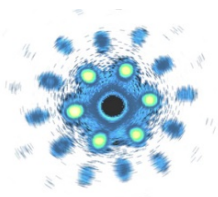


Neutron Scattering Symposium 2020

Friday 13th November - Day 3 Morning



Abstract ID	Title	Start Time	Duration	Presenter
Advanced Materials - Session Chair Karyn Jarvis				
117	Kinetic Analysis of Oil Exchange between Surfactant-Stabilized Emulsions Using Time- Resolved Small Angle Neutron Scattering	09:00	30 minutes	Lilo D Pozzo - Invited
105	Defect structure-property correlations in Li doped BaTiO ₃	09:30	20 minutes	Narendrakumar Narayanan
42	Effect of molybdenum on the precipitation in ferritic niobium-containing steels produced by strip casting	09:50	20 minutes	Lu Jiang
2	Investigating the Aqueous Swelling and Stability of Plasma Polymerised Acrylic Acid Films	10:10	20 minutes	Karyn Jarvis
41	Morphological transitions in aqueous surface active ionic liquid influenced by additives investigated through SANS	10:30	20 minutes	Monika Jain
Break				
Magnetism & Condensed Matter - Session Chair David Cortie				
17	Neutron scattering study on materials with colossal barocaloric effects	11:00	30 minutes	Bing Li - Invited
65	Infrared catastrophe in two-dimensional quantum antiferromagnets: spectral damping without quasiparticle decay.	11:30	20 minutes	Oleg Sushkov
66	Comparing inelastic neutron scattering with theory to understand the complex magnetic interactions in a low-dimensional frustrated magnet	11:50	12 minutes	Jackson Allen
83	Inelastic Neutron Scattering of Lanthanoid-Radical Molecular Nanomagnets	12:02	12 minutes	Maja Dunstan
118	Sub-3nm cobalt nanoparticles embedded in titania glass via ion implantation studied by polarised neutron reflectometry	12:14	12 minutes	Abuduliken Bake
Break				



Neutron Scattering Symposium 2020

Friday 13th November - Day 3 Afternoon



Cultural Heritage - Session Chair Anna Paradowska				
Abstract ID	Title	Start Time	Duration	Presenter
124	Neutron techniques in Archaeometry	13:30	30 minutes	Filomena Salvemini - Invited
90	Neutron Imaging: benefits and Case Studies in Palaeontology and Cutlural Heritage	14:00	20 minutes	Joseph Bevitt
104	Residual stress measurements for cultural heritage	14:20	20 minutes	Vladimir Luzin
Break				
Manufacturing & Engineering - Session Chair Yun Liu				
127	'One layer at a time': Unlocking Novel Materials and Structures for Neutron Radiation Environments through Additive Manufacturing	14:50	30 minutes	Jonathan Knott - Invited
112	The effects of Bi addition on the mechanical properties of eutectic Sn-Ag-Cu lead-free solder alloy	15:20	12 minutes	Ayodele Olofinjana
91	Austenite formation kinetics from multicomponent cementite-ferrite aggregates by in situ neutron powder diffraction	15:33	20 minutes	Yuxiang Wu
86	Thermal and Mechanical Analyses of Dental Composites for Class II Cavity Restoration in a Molar Tooth: A Finite Element Study	15:54	20 minutes	Jerrin Thadathil Varghese
35	Current high-pressure capabilities at ACNS and future plans	16:15	20 minutes	Helen Maynard-Casely
	Closing	16:35		Livia Salvati Manni Leonie van't Hag