

AANSS 2013 SUMMARY PROGRAM

Please note: Conference Program correct at the time of printing, subject to change

	Monday 2 nd December	Tuesday 3 rd December
Session	10:00 Registration	09:00 – 10:30
Morning Tea		
Session	10:45 – 12:30	11:00 – 12:30
Lunch		
Session	13:30 – 15:00	13:30 – 15:00
Afternoon Tea		
Session	15:30 – 17:00	1500 – 1515 ANBUG AGM 15:15 – 15:30 Meeting Close
Guest Speaker	17:00 – 17:30 Professor Emeritus Anthony Klein University of Melbourne	
Poster Session	17:00 – 19:00 Poster Session AINSE Council Room	
BBQ Dinner	19:00 Barbeque Dinner ANSTO Café Courtyard	

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Monday 2nd December 2013

10:00 – 10:45	Registration, Tea & Coffee
Session 1	Chair: Chris Ling
10:45 – 11:00	Official Conference Opening and Housekeeping
	Frank Bruhn / Rachel Caldwell (AINSE)
11:00 – 11:30	Keynote: Dr Andrew Wildes – Institu Laue-Langevin
	<i>“Structural correlations and melting of A-DNA fibres”</i>
11:30 – 11:45	Emma Rath – University of Sydney
	<i>“Determining the structure of the anti-cancer BAMLET complex using neutron scattering”</i>
11:45 – 12:00	Khondker Rufaka Hossain – University of Technology
	<i>“A Study of the Spontaneous Membrane Insertion of Chloride Intracellular Ion Channels (CLIC) into Model Lipid Membranes”</i>
12:00 – 12:15	Dr Anton Le Brun – ANSTO
	<i>“The Role of Deposition pH on Dodecyl Phosphate Self-Assembled Monolayer Formation on TiO₂ Surfaces”</i>
12:15 – 12:30	Peter Akers – University of Auckland
	<i>“Studying the fusogenic killing mechanism of hydramacin-1”</i>
12:30 – 13:30	Lunch (ANSTO Café)
Session 2	Chair: Dr Darren Goossens
13:30 – 14:00	Keynote: Dr Anna Paradowska - ANSTO
	<i>“Neutron Diffraction Measurements of Residual Stress in Large Scale Components”</i>
14:00 – 14:15	Bahar Khodabakhshi – Monash University
	<i>“Investigating the Effect of Pre-heating on the Magnitude of Residual Stresses in Aluminothermic Rail Welds Using Neutron Diffraction”</i>
14:15 – 14:30	Tim Slingsby – Monash University
	<i>“Measuring Residual Stress in Parts Built Using Selective Laser Melting”</i>
14:30 – 14:45	Afshin Mohammadhosseini – Swinburne University of Technology
	<i>“Residual stress measurement of Electron Beam Melting process using neutron beam diffraction”</i>
14:45 – 15:00	Dr Sara Callori - ANSTO
	<i>“Pinned Magnetization in Permalloy/CoO/Co Trilayers Due to Oxygen Implantation in the Co Layers”</i>
15:00 – 15:30	Tea & Coffee
Session 3	Chair: Prof Stuart Campbell
15:30 – 16:00	Daniel Wilson – University of Auckland
	<i>“Structural and Magnetic Tunability of Cu₅SbO₆ via doping of Mn and Mo”</i>
16:00 – 16:15	Zakiah Mohamed – University of Sydney
	<i>“Determination of magnetic structure in LiFe_{1-x}Mn_xPO₄ by neutron powder diffraction”</i>

16:15 – 16:30	Qingyong Ren – UNSW Canberra <i>“Magnetism and the magnetocaloric effect of Mn_{1-x}Fe_xCoGe”</i>
16:30 – 16:45	Frederick Marlton – Australian National University <i>“Microwave Synthesis and Structural Phase Diagram of Hexagonal Yttrium Manganates”</i>
16:45 – 17:00	Ruoming Tian – University of New South Wales <i>“Structure investigation and thermoelectric properties of [Ca₂CoO₃][CoO₂]_{1.61} based p-type materials”</i>
17:00 – 17:30	Guest Speaker Professor Emeritus Anthony Klein University of Melbourne <i>“The prehistory and history of neutron scattering in Australia”</i>
Poster Presentation	
17:30 – 19:00	AINSE Foyer / Council Room
19:00 onwards	Barbeque Dinner (ANSTO Café / Courtyard)

Tuesday 3rd December 2013

Session 4	Chair: Dr Elliot Gilbert
09:00 – 09:30	Keynote: Dr Stefan Salentiniga – Monash University <i>“pH Responsive Colloidal Lipid Digestion Products”</i>
09:30 – 09:45	Dr Nageshwar Yepuri - ANSTO <i>“Synthesis of Per-deuterated Alkyl Amines for Preparation of Deuterated Organic Pyromellitimide Gelators”</i>
09:45 – 10:00	Dr Chris Garvey - ANSTO <i>“Diffraction methods in soft matter”</i>
10:00 – 10:15	Dr Stephen Holt - ANSTO <i>“‘Building’ Asymmetric Model Cell Membranes.”</i>
10:15 – 10:30	Dr Anthony Duff - ANSTO <i>“Protein Structure Studies using Small Angle Neutron Scattering with Protein Deuteration and Contrast Variation: Some case studies”</i>
10:30 – 11:00	Tea & Coffee
Session 5	Chair: Dr Vanessa Peterson
11:00 – 11:30	Keynote: Dr Mark Henderson – Australian National University <i>“Pillared clays and graphites for hydrogen storage?”</i>
11:30 – 11:45	Dr Wei Kong Pang - ANSTO <i>“Structural evolution of a LiNi_{0.5}Mn_{1.5}O₄ cathode and a Li₄Ti₅O₁₂ anode in a functioning lithium-ion battery”</i>
11:45 – 12:00	Zixin Huang – University of Sydney <i>“Effect of Pressure on Magnetoelastic Compounds Ba₃BiM₂O₉ (M=Ir,Ru)”</i>
12:00 – 12:15	Dr Hubert Chevreau – ANSTO <i>“Metal Organic Frameworks for CO₂ capture”</i>
12:15 – 12:30	Catriona Vanston – University of Tasmania

	<i>"Examination of reaction intermediates in the synthesis of sterically demanding bis(NHC) palladium complexes"</i>
12:30 – 13:30	Lunch
Session 6	Chair: Dr Frank Klose
13:30 – 14:00	Keynote: Dr Christine Rehm - ANSTO
	<i>"Exploring Microstructures of Materials Using Ultra-Small-Angle Neutron Scattering"</i>
14:00 – 14:15	Dr Trevor Hicks – Monash University
	<i>"Straightforward derivation of the polarisation analysis cross-sections"</i>
14:15 – 14:30	Henry Kirkwood – La Trobe University
	<i>"High Resolution Three-Dimensional Strain Mapping Using Neutron Bragg-Edge Transmission"</i>
14:30 – 14:45	Dr Anna Sokolova – ANSTO
	<i>"BILBY: new Time-of-Flight Small Angle Neutron Scattering instrument at ANSTO"</i>
14:45 – 15:00	Dr Dehong Yu – ANSTO
	<i>"Progress in Commission of the Time of Flight Polarization Analysis Spectrometer – Pelican"</i>
15:00 – 15:15	ANBUG AGM
15:15 – 15:30	Meeting Close