

**Australian Centre**

**for Neutron**

**Scattering**

**Clip Day**

**2019**

**Program**

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| **9:00** | Mark Reid | Safety |
| **Open** | Jamie Schulz | Open/Welcome to country |
| 9:10 | Yunxiao Zhang | Potential Dependent Adsorption of Polymeric Ionic Liquids to Gold |
| 9:16 | Samila McDonald | Dye–TiO2 interfacial structure in dye-sensitized solar cells |
| 9:22 | Jiatu Liu | In situ Neutron Diffraction Study on Layered Oxides Na0.5Ni0.25Mn0.75O2 |
| 9:28 | Chengbo Zhu | Laser metal deposition of high chromium white iron powder: the effect of pre-heat and laser scan speed on microstructure |
| 9:34 | Yunxin (Cindy) Xiao | Engineering Elongated Polymeric Nanocapsules for Prolonged Circulation and Improved Controlled Release |
| 9:40 | Maja Dunstan | Inelastic Neutron Scattering of Lanthanoid-Semiquinonate Single-Molecule Magnets |
| 9:46 | Meltem Bayrak | The role of casein protein structure on digestibility |
| 9:52 | Katherine Davies | Using neutron reflectometry to understand MLKL’s membrane permeabilisation mode |
| 9:58 | Isaac Gresham | Observing the synthesis of a polymer brush, molecule by molecule |
| 10:04 | Christophe Didier | Layer gliding and distortions in KxMnO2 and influence of Co doping |
| 10:10 | Tara Brown | Bismuth-NSAIDs as colorectal cancer chemopreventives |
| 10:16 | Sarath Patabendigedara | Quantifying the effects of surface and bulk proton transport in Olivine |
| 10:22 | Olivia Kendall | Residual Stresses, Metallurgical and Mechanical Properties of Laser Cladded Rail Components |
| **10:30** | **Morning tea** |  |
| 11:00 | Serafina Crapis | Anti-cancer properties of flavonoids and bismuth flavonoids: Do their interactions with lipids mirror there *in vitro* cytotoxicity |
| 11:06 | Milos Dubajic | Detailed Phonon Dynamics Approach Reveals Origins of the Hot Carrier Effect in Perovskites |
| 11:12 | Gemeng Liang | Understanding Mg doping effects on spinel LiNi0.5Mn1.5O4 high-voltage cathode for lithium-ion batteries |
| 11:18 | Jennifer Stansby | Developing Modified Layered Oxides for Sodium Battery Application |
| 11:24 | Joshua King | Linking structure to rheology for wormlike micelles during shear via rheo-SANS |
| 11:30 | Narendirakumar Narayanan | Phase transitions and the evolution of the ferroic orders in the coupled honeycomb system (Fe, Co, Mn)4Ta2O9 |
| 11:36 | Qingbo Xia | Transition Metal Metaphosphates as Novel Electrode Materials for Lithium & Sodium Ion Batteries |
| 11:42 | Edwin Johnson | Non-monotonic structure of pH and temperature responsive copolymer brushes as determined by neutron reflectometry |
| 11:48 | Hang Su | Initiation of Localised Degradation of Rail Flash Butt Welds in Heavy Haul Railways |
| 11:54 | Emily Cheung | Characterisation of Na+ dynamics in γ-Na3-2*x*Mg*x*PO4 |
| 12:00 | Nur Maizura Mohd Darbi | Interaction of Antimicrobial peptides and cell membrane |
| 12:06 | Simone Calvello | Theoretico – Experimental Study of the Electronic Structure of Lanthanoid-Dioxolene Single-Molecule Magnets |
| 12:12 | Li Lisi | QENS Study of Diffusion in Superionic Compound Cu2-xSe |
| **Close** | Garry McIntyre | Closing comments |
| **12:30** | **Lunch** |  |
| **13:30** | **Poster Session** |  |
| **15:30** | **Afternoon tea** |  |
| **16:00** | **End** |   |