

**ANSTO – AINSE Neutron School on Dynamics and Kinetics
15 – 20 August 2010**

Sunday 15 August (*Steven's Hall located in the Motel*)

17-19h *Arrival of participants/lecturers – registration in Steven's Hall*
19h *Dinner (in canteen) – welcome Joseph Bevitt*

Monday 16 August (*AINSE theatre*)

9h	Welcome	Rob Robinson
9h10	General intro to neutron scattering in kinetics and dynamics	John White
10h10	A day in the life of a neutron (neutron fundamentals)	Andrew Studer

10h45 *Break*

11h	Overview of elastic neutron-scattering techniques	Michael James
11h35	Kinetic studies in soft matter with SANS	Katy Wood
12h10	Overview of inelastic neutron-scattering techniques	Mona Yethiraj

12h45 *Lunch*

14-16h *Collect ANSTO pass from security (building 38)*
16-17h *Introductory tour to neutron-guide hall*
17-18h *Clip session – participants (AINSE theatre)*
18-20h *Poster session and dinner (Cafeteria)*

Tuesday 17 August (*ANSTO: Opal auditorium, guide hall*)

9h	Overview of polarised neutron-scattering techniques	Hal Lee
9h35	Neutrons and multiferroics	Annemieke Mulders

10h10 *Break*

10h30	Biomolecules in action	Andrew Whitten
11h30	Writing a proposal and reporting results	Joseph Bevitt

12h *lunch in OPAL cafeteria B83*

13h Instrument demonstration & sample data analysis
 ECHIDNA (B83) – Max Avdeev, James Hester
 KOALA (cabin) – Ross Piltz, Alison Edwards
 KOWARI (B82 conf) – Oliver Kirstein, Vladimir Luzin
 QUOKKA (B87 conf) – Elliot Gilbert, Katy Wood
 TAIPAN (cabin) – Sergey Danilkin, Mona Yethiraj
 WOMBAT (B83) – Andrew Studer, Vanessa Peterson

18h30 *Dinner (canteen)*

Wednesday 18 August (*ANSTO: Opal auditorium, guide hall*)

9h Instrument demonstration & sample data analysis
 ECHIDNA (B83) – Max Avdeev, James Hester
 KOALA (cabin) – Ross Piltz, Alison Edwards
 KOWARI (B82 conf) – Oliver Kirstein, Vladimir Luzin
 QUOKKA (B87 conf) – Elliot Gilbert, Katy Wood
 TAIPAN (cabin) – Sergey Danilkin, Mona Yethiraj
 WOMBAT (B83) – Andrew Studer, Vanessa Peterson

12h30 *Lunch in OPAL cafeteria B83*

13h30 Powder diffraction and Rietveld analysis **Maxim Avdeev**
 14h15 Overview of quasi-elastic neutron-scattering techniques **Nicholas de Souza**

15h *Break*

15h15 Investigating cement using neutrons **Vanessa Peterson**
 16h Use of *in situ* neutron diffraction for resolving reaction kinetics **Daniel Riley**

17h *Leave with bus for cruise*
 19h *Dinner-cruise Sydney harbour*

Thursday 19 August (*ANSTO: Opal auditorium, guide hall*)

9h Single-crystal technique and its applications **Ross Piltz**
 9h45 Lattice Dynamics **Clemens Ulrich**

10h30 *Break*

10h45 Structural changes related to thermal mechanical processing **Klaus-Dieter Liss**
 11h30 Understanding diffraction and inelastic neutron-scattering data via modelling **Don Kearley**

12h15 *Lunch in OPAL cafeteria B83*

13h30 Data analysis and preparing presentations for Friday
 ECHIDNA (B83) – Max Avdeev, James Hester
 KOALA (cabin) – Ross Piltz, Alison Edwards
 KOWARI (B82 conf) – Oliver Kirstein, Vladimir Luzin
 QUOKKA (B87 conf) – Elliot Gilbert, Katy Wood
 TAIPAN (cabin) – Sergey Danilkin, Mona Yethiraj
 WOMBAT (B83) – Andrew Studer, Vanessa Peterson

18h30 *Dinner (canteen)*

Friday 20 August (*AINSE theatre*)

9h Negative Thermal Expansion Materials **Cameron Kepert**
 10h Using neutrons to study energy materials. Recent results **Vanessa Peterson**

10h30 *Break*

10h45 Time of flight neutron spectroscopy **John Stride**

11h30 Group presentations ECHIDNA and WOMBAT

12h45 *Lunch in canteen*

13h45 Group presentations PLATYPUS and QUOKKA

15h15 *Break*

15h30 Group presentations KOALA and TAIPAN and farewell

17h *Departure*