

5 March 2009

**AONSA Neutron School on nanoscience
16 – 22 August 2009**

Sunday 16 August

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

Monday 17 August (AINSE theatre)

9h Welcome
9h10 General introduction to neutron scattering in nanoscience
10h15 Overview of elastic neutron-scattering techniques

10h30 *break*
10h45 Overview of inelastic neutron-scattering techniques
11h15 Overview of magnetic neutron-scattering
11h45 A day in the life of a neutron (neutron fundamentals)

12h15 *lunch*
13h30-16h *Getting ANSTO pass from security (building 38)*
16-17h *Induction tour to neutron-guide hall*
17-18h *Clip session - participants*
18-20h *Poster session (AINSE council room) and dinner*

Tuesday 18 August (ANSTO: Opal auditorium, guide hall)

9h SANS application
9h45 SANS application

10h30 *break*
10h45 Reflectometry application
11h30 Reflectometry application

12h15 *lunch in OPAL cafeteria B83*
13h30 Instrument demonstration & data correction
 ECHIDNA (B83) – Max Avdeev, James Hester
 KOALA (cabin) – Ross Piltz, Alison Edwards
 KOWARI (cabin) – Oliver Kirstein, Vladimir Luzin
 PLATYPUS (B82 conf) – Michael James, Andrew Nelson, Frank Klose
 QUOKKA (B87 conf) – Elliot Gilbert, Bill Hamilton, Robert Knott
 TAIPAN (cabin) – Sergey Danilkin, Mona Yethiraj
 WOMBAT (B83) – Andrew Studer, Vanessa Peterson

18h00 *dinner (canteen)*

19h00 Evening lecture – neutron sources

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

- 9h Instrument demonstration & sample data analysis
ECHIDNA (B83) – Max Avdeev, James Hester
KOALA (cabin) – Ross Piltz, Alison Edwards
PLATYPUS (B82 conf) – Michael James, Andrew Nelson, Frank Klose
QUOKKA (B87 conf) – Elliot Gilbert, Bill Hamilton, Robert Knott
TAIPAN (cabin) – Sergey Danilkin, Mona Yethiraj
WOMBAT (B83) – Andrew Studer, Vanessa Peterson
- 12h15 *lunch*
- 13h30 Single crystal applications
14h15 Single crystal applications
- 15h *break*
- 15h15 Powder applications
16h Powder applications
- 17h leave with bus for cruise
19h dinner-cruise Sydney harbour

Thursday 20 August (*ANSTO: Opal auditorium, guide hall*)

- 9h Magnetism applications
9h45 Magnetism applications
- 10h30 *break*
10h45 Inelastic applications
11h30 Neutron scattering and modelling
- 12h15 *lunch in OPAL cafeteria B83*
13h30 Data analysis and evaluation
ECHIDNA (B83) – Max Avdeev, James Hester
KOALA (cabin) – Ross Piltz, Alison Edwards
PLATYPUS (B82 conf) – Michael James, Andrew Nelson, Frank Klose
QUOKKA (B87 conf) – Elliot Gilbert, Bill Hamilton, Robert Knott
TAIPAN (cabin) – Sergey Danilkin, Mona Yethiraj
WOMBAT (B83) – Andrew Studer, Vanessa Peterson
- 18h00 *dinner (canteen)*
17h00 Prepare presentation

Friday 21 August (*AINSE theatre*)

- 9h Strain applications
9h45 Strain applications
- 10h30 *break*
10h45 Proposal writing
11h30 group presentations ECHIDNA and WOMBAT
- 12h15 *lunch in canteen*
13h45 group presentations PLATYPUS and QUOKKA
- 15h00 *break*
15h30 group presentations KOALA, KOWARI and TAIPAN and farewell
17h *departure*