



ANSTO-HZB Neutron Training Course 2024



ANSTO



HZB
Helmholtz
Zentrum Berlin

Sunday 27 October 2024

12:00	Registration and lunch	
13:15	Welcome and house keeping	Dr Anton Le Brun, Dr Helen Maynard-Casely
13:30	Theory lecture 1: Introduction to Neutron Scattering I	Prof Dr Bella Lake
14:30	Theory lecture 2: Introduction to Neutron Scattering II	Prof Dr Bella Lake
15:30	Afternoon tea	
16:00	Theory lecture 3: Neutron Sources, Optics, and Detectors	Dr Jamie Schulz
17:15	Bus departs for Rydges hotel	

Monday 28 October 2024

9:00	Security badge collection	
9:30	NGH & RBH inductions / laboratory inductions (includes morning tea)	User Office / Dr Deb Wakeham
11:45	Welcome and introduction to AINSE	
12:00	Theory lecture 4: Deuteration	Dr Carl Recsei
13:00	Lunch	
14:00	Theory lecture 5: Neutron reflectometry	Dr Sebastian Risse
15:00	Theory lecture 6: Small-angle neutron scattering	Dr Anna Sokolova
16:00	Afternoon tea	
16:30	Applications lecture 1: Neutrons for Biology	Dr Kathleen Wood
17:30	Poster session (with dinner)	
20:15	Bus departs for Rydges hotel	

Tuesday 29 October 2024

9:00	Applications lecture 2: Neutrons for Battery Materials	Dr Sebastian Risse
10:00	Morning tea	
10:30	Theory lecture 7: Crystallography and Diffraction	Prof Dr Susan Schorr
11:30	Theory lecture 8: Residual stress diffraction and strain scanning	Dr Mark Reid
12:30	Lunch	
13:30	Applications lecture 3: Neutrons for Energy Materials	Prof Dr Susan Schorr
14:30	Theory lecture 9: Inelastic neutron scattering	Prof Kirrily Rule



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Tuesday 29 October 2024 Continued

15:30	Afternoon tea	
16:00	Theory lecture 10: Quasi-elastic neutron scattering	Dr Dehong Yu
17:15	Bus departs for Rydges hotel	

Wednesday 30 October 2024

9:00	Theory lecture 11: Polarised neutrons	Dr Andrew Manning
10:00	Applications lecture 4: Neutrons for Magnetism	Prof Dr Bella Lake
11:00	Morning tea	
11:30	Theory lecture 12: Neutron Imaging, Radiography, and Tomography	Dr Joseph Bevitt
12:30	Lunch	
13:30	Practical 1 (includes 30 minutes for afternoon tea)	Practical Tutors
17:15	Bus departs for Rydges hotel	

Thursday 31 October 2024

9:00	Practical 2 (includes 30 minutes for morning tea)	Practical Tutors
12:30	Lunch	
13:30	Practical 3 (includes 30 minutes for afternoon tea)	Practical Tutors
17:30	Coach departs Lucas Heights for South Cronulla	
18:00	Gala dinner	
22:00	Walk to hotel	

Friday 1 November 2024

9:00	Applications lecture 5: Industrial applications of neutrons	Dr Helen Qiu
10:00	Sample environment lecture	Mr Tim D'Adam
11:00	Morning tea	
11:30	Theory lecture 13: Computation and analysis	Dr Pablo Galviz
12:30	Lunch	
13:30	Applications lecture 6: Neutrons for Soft Matter	A./Prof Stuart Prescott
14:30	Proposal writing tutorial	Dr Karyn Wilde & Dr Helen Maynard-Casely
15:30	Closing remarks	Dr Jamie Schulz, Dr Anton Le Brun & Dr Helen Maynard-Casely
16:00	Bus departs for Sutherland Station	