

X-Ray and Neutron Science 3rd ESRF/ILL International Student Summer Programme 28th August – 23rd September 2016



Sunday, 28th August – Arrival 18:00 – 21:00 Welcome Buffet & Get Together with Tutors in the ESRF/ILL Cafeteria

Monday, 29 th August – Oral Sessions - ILL Chadwick Amphitheatre		
08:00 – 09:00	ESRF students : administrative formalities	Leila van Yzendoorn ESRF Central building office 424
	ILL students: medical exams	at the ILL medical service
09:30 – 10:30	Welcome address and presentation of Neutron Science by William G. Stirling (ILL Director General)	
10:30 – 11:00	Coffee break	
11:00 – 12:00	Welcome address and presentation of Synchrotron Radiation by Francesco Sette (ESRF Director General)	
12:00 - 14:00	Lunch break (common restaurant on site)	
14:00 – 15:30	ESRF students: General Safety Training	ESRF central building, Room CB-018
14:00 – 15:00	ILL students: Administrative formalities	ILL 4, office 51/Anita Schober
15:30	ILL students: X-ray exams downtown Grenoble	
afternoon	Self study	

Tuesday, 30 th August – Oral Sessions - ILL Chadwick Amphitheatre		
08:30 - 09:30	Principles of Synchrotron Radiation	Boaz Nash (ESRF)
09:30 – 10:30	X-Ray and their interaction with matter (Part 1)	Luigi Paolasini (ESRF)
10:30 – 11:00	Coffee Break	
11:00 – 12:00	ESRF students : PSS safety training (radiation safety)	ESRF Beamline BM18
12:00 – 14:00	Lunch break	
14:00 – 15:00	X-rays and their interaction with matter (Part 2)	Luigi Paolasini (ESRF)
15:00 – 15:30	Coffee break	
15:30 –16:30	X-ray Instrumentation	Raymond Barrett (ESRF)
afternoon	Self study	

Wednesday, 31 th August – Oral Sessions - ILL Chadwick Amphitheatre		
09:00 – 10:00	Neutron Instrumentation	Eddy Lelièvre-Berna (ILL)
10:00 – 10:30	Coffee break	
10:30 – 12:00	Visit of ILL reactor	
12:00 – 14:00	Lunch break	
14:00 – 15:00	Interaction Neutrons + Matter (part 1)	Christian Vettier (ESRF)
15:00 – 15:30	Coffee break	
15:30 – 16:30	Interaction Neutrons + Matter (Part 2)	Christian Vettier (ESRF)
Remaining afternoon	Self study	

Thursday, 1 st September – Laboratory work (project)	14:00 – 16:30: Safety training for the
	ILL Students (Chadwick Amphitheatre)

Friday, 2nd September – Laboratory work (project)

Monday, 5th September – Laboratory work (project)

Tuesday, 6 th September – Oral Sessions - ILL Chadwick Amphitheatre		
09:00 – 10:00	X-ray imaging Alexander Rack (ESRF)	
10:00 – 10:30	Coffee break	
10:30 – 11:30	Magnetism and X-Ray dichroism Andrei Rogalev (ESRF)	
11:30	Lunch break	
Afternoon	Laboratory work (project)	

Wednesday, 7th September – Laboratory work (project)

Thursday, 8 th September – Oral morning session– ILL Chadwick Amphitheatre		
09:00 – 10:00	Soft Matter studies with X-rays Theyencheri Nayaranan (ESRF)	
10:00 – 10:30	Coffee break	
10:30 – 11:30	Neutron Spectroscopy	Andrew Wildes (ILL)
11:30 – 12:30	Inelastic neutron scattering	Mechthild Enderle (ILL)

12:30	Lunch break	
Afternoon	Laboratory work (project)	

Friday, 9th September – Laboratory work (project)

Sunday, 11th September – Hiking in the Vercors with Patrick Bruno (depending on weather conditions & your registrations)

Monday, 12th September – Laboratory work (project)

Tuesday, 13 th September - Oral morning session - ILL Chadwick Amphitheatre		
09:00 – 10:00	X-Ray Diffraction	Tobias Schulli (ESRF)
10:00 – 10:30	Coffee break	
10:30 – 11:30	X-ray studies under extreme conditions	Mohamed Mezouar (ESRF)
11:30	Lunch break	
Afternoon	Laboratory work (project)	

Wednesday, 14th September – Laboratory work

Wednesday, 14th September, 18:30 – 21:30 – BBQ at the "Chalet" on Site

Thursday, 15 th September - Oral morning session - ILL Chadwick Amphitheatre		
09:00 – 10:00	Fundamentals of X-Ray Absorption Fine structure	Sakura Pascarelli (ESRF)
10:00 – 10:30	Coffee break	
10:30 – 11:30	Synchrotron Radiation and Structural Biology	Gordon Leonard (ESRF)
11:30	Lunch break	
Afternoon	Laboratory work (project)	

Friday, 16th September – Laboratory work (project)

Monday, 19th September – Laboratory work (project)

Tuesday, 20 th September - Oral morning session – Seminar Room ILL4		
09:00 – 10:00	Soft matter studies with neutrons	Giovanna Fragneto (ILL)
10:00 – 10:30	Coffee break	
10:30 – 11:30	Nuclear and particle physics	Oliver Zimmer (ILL)
11:30	Lunch break	
Afternoon	Laboratory work (project)	

Wednesday, 21th September – Laboratory work (project)

Thursday, 22 th September – Students' Workshop – ILL 4 Seminar Room		
Morning	Laboratory work (project)	
Afternoon	Students' Workshop in Chadwick Amphitheatre	(detailed program will be communicated later)

Thursday,22th September, 19:00 – Farewell Dinner in town (details will be communicated later)

Friday, 23th September – Students' Workshop – Chadwick Amphitheatre	
Morning	Students' Workshop in Chadwick Amphitheatre (continued)
Afternoon	departure formalities

Saturday, 24st September: Departure