

X-Ray and Neutron Science 5th ESRF/ILL International Student Summer Programme 2nd – 28th September 2018



Sunday, 2nd September– Arrival 18:00 – 21:00 Welcome Buffet & Get Together with Tutors in the ESRF/ILL Cafeteria

Monday, 3 rd September – Oral Sessions – ILL Chadwick Amphitheatre		
08:00 - 09:00	ILL students: Blood test	
09:00 – 10:00	ESRF students: Administrative formalities	ESRF CB office 424, L. Van Yzendoorn
10:30 – 12:00	ESRF Students: Safety training	ESRF, room BEL 1-01
09:00 – 12:00	ILL students: Medical exam & administrative formalities	ILL 17, office 03, A. Schober
12:00 – 14:00	Lunch break (common restaurant on site)	
14:00 – 15:00	Welcome address and presentation of the ESRF	Francesco Sette (ESRF Director General)
15:00 – 15:30	Coffee break	
15:30 – 16:30	Welcome address and presentation of the ILL	Helmut Schober (ILL Director General)

Tuesday, 4 th September – Oral Sessions – ILL4 Seminar Room		
09:00 - 10:00	Neutrons and their Interaction with Matter (part 1)	Mark Johnson (ILL)
10:00 - 10:30	Coffee Break	
10:30 – 11:30	Neutron Production	Ulli Köster
11:30 – 13:30	Lunch break	
13:30 – 14:30	Neutrons and their Interaction with Matter (part 2)	Mark Johnson (ILL)
14:30 – 15:00	Coffee break	
15:00 – 17:00	ESRF Students: PSS Safety training	ID31 (Belledonne)
	ILL Students: Medical exams	

Wednesday, 5 th September – Oral Sessions – ILL4 Seminar Room		
09:00 – 10:00	Principles of Synchrotron Radiation	Nicola Carmignani (ESRF)
10:00 – 10:30	Coffee break	
10:30 – 11:30	X-ray Instrumentation	Raymond Barrett (ESRF)
11:30 – 14:00	Lunch break	
14:00 – 15:00	X-rays and their Interaction with Matter (part 1)	Luigi Paolasini (ESRF)
15:00 – 15:30	Coffee break	
15:30 – 16:30	X-rays and their Interaction with Matter (part 2)	Luigi Paolasini (ESRF)

Thursday, 6th September – Laboratory work	ILL Students Radioprotection safety training
(project)	(morning), safety training (afternoon)

Friday, 7th September – Laboratory work (project)

Monday, 10 th September – Oral Sessions - ILL Chadwick Amphitheatre		
09:00 – 10:00	Soft Matter Studies with Neutrons	Giovanna Fragneto (ILL)
10:00 – 10:30	Coffee break	
10:30 – 11:30	Soft Matter Studies with X-rays	Narayanan Theyencheri (ESRF)
11:30 – 12:30	Neutron Instrumentation	Eddy Lelièvre-Berna (ILL)
12:30 – 12:30	Lunch break	
Afternoon	Laboratory work (project)	

Tuesday, 11th September – Laboratory work (project)

Wednesday, 12 th September – Oral morning session – ILL Chadwick Amphitheatre		
09:00 – 10:00	Neutron Diffraction	Juan Rodriguez (ILL)
10:00 – 10:30	Coffee break	
10:30 – 11:30	Magnetism and X-ray Dichroism	Andrei Rogalev (ESRF)
11:30 - 12:30	Lunch break	
Afternoon	Laboratory work (project)	

Thursday, 13th September – Laboratory work (project)

Sunday, 16th September – Hiking in the Vercors with Patrick Bruno (depending on weather conditions & your registrations)

Monday, 17 th September – Oral morning session – ILL Chadwick Amphitheatre		
09:00 - 10:00	Nuclear & Particle Physics	Olivier Zimmer (ILL) tbc
10:00 – 10:30	Coffee break	
10:30 – 11:30	X-ray Imaging	Alexander Rack (ESRF)
11:30	Lunch break	
Afternoon	Laboratory work (project)	

Tuesday, 18th September – Laboratory work

Wednesday, 19 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	Synchrotron Radiation and Structural Biology	Gordon Leonard (ESRF)
11:30	Lunch break	
Afternoon	Laboratory work (project)	

Wednesday, 19th September, 18:30 – 21:30 – BBQ at the "Chalet" on Site

Thursday, 20th September – Laboratory work (project)

Friday, 21 th September – Oral morning session – ILL4 Seminar Room		
09:00 – 10:00	Fundamentals of X-Ray Absorption Fine Structure	Sakura Pascarelli (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)	

Monday, 24th September – Laboratory work (project)

Tuesday, 25 th September – Oral morning session – ILL4 Seminar Room		
09:00 - 10:00	Neutron Spectroscopy	Andrew Wildes (ILL)
10:00 – 10:30	Coffee break	
10:30 – 11:30	Inelastic Neutron scattering	Mechthild Enderle (ILL)
11:30	Lunch break	
Afternoon	Laboratory work (project)	

Wednesday, 26th September – Laboratory work (project)

Thurs	sday, 27 th September – Students' Workshop – ES	RF Auditorium
Morning	Laboratory work (project)	
Session 1: chai	r Martin Böhm	
13:45 – 14:00	Welcome + Introduction	Patrick Bruno, ESRF
14:00 – 14:15	High pressure & temperature behavior of layered	Ida Bukalska, ESRF
	Cu(OH)F	Adam Muckiewicz University in Poznań
14:15 – 14:30	Ab initio calculation of vanadyl phthalocyanine XMCD	Konstantin Lebedew, ESRF
		Southern Federal University
14:30 – 14:45	High Resolution X-Ray Absorption Spectroscopy in Materials Research	Siân Phillips, ESRF
11.15 15.00		University of Liverpool
14:45 – 15:00	Acoustic Phonon Studies in TbFe3(BO3)4 with Inelastic Neutron Scattering	Martin Jonák, ILL
15:00 – 15:15	Changing of La0.7Sr0.3MnO3-x thin film properties	Heidelberg University Veronika Zorina, ESRF
	enanging of Lacin crossing of Alaminan proportion	NRC Kurchatov Institute, Moscow
15:15 – 15:45	Coffee break	mentate, medeen
Session 2: chai	r Nico Carl	
15:45 – 16:00	Photo dissociation of I2 in a solvent	Gal Yosefi, ESRF
		Ben Gurion University of the Negev
16:00 – 16:15	Poly-NIPAm at the air-water interface	Ella Shilliday, ILL
		University of Bath
16:15 – 16:30	The evolution of spin-coated polymer films	Kelly Brouwer, ILL
16:30 – 16:45	Solf accombly of curary and curfactants	Utrecht University Mikkel Christensen,
10.30 - 10.45	Self-assembly of sugars and surfactants	ESRF
16:45 – 17:00	Controlling Colf Accombine 29 12 12	University of Oslo
16:45 – 17:00	Controlling Self-Assembly with Light	Wenke Müller, ILL
		University of Potsdam

Friday, 28 th September – Students' Workshop – ESRF Auditorium		
Session 3: chair Eaazhisai Kandiah		
09:00 – 09:15	Fission studies at the ILL	Guillaume Häfner, ILL
		University of Cologne
09:15 – 09:30	Single-particle cryo-EM with β -galactosidase as a new benchmark sample for CMO1.	Jennifer Love, ESRF
	'	University of Bath
09:30 – 09:45	Luciferase Purification, Crystalization and Optical Spectroscopy	Laura Twomey, ESRF
		Universidad Politecnica de Madrid (UPM)
09:45 – 10:00	Monte Carlo Simulation for the Expected Radiation	Jack Bosley, ILL
	Doses Delivered to Mammalian Cells	University of Bath
10:00 – 10:15	Characterisation of Gafchromic HD-V2 radiochromic	Aleksandra Wilk, ESRF
	film response uniformity using flatbed scanner	AGH University of
		Science and Technology
10:15 – 10:45	Coffee break	reciniology
Session 4: chair	 : Robert Paddock	
10:45 – 11:00	Diffraction for characterization	Guglielmo Albani, ILL
11.00 11.15	Out of the of the out	Politecnico di Milano
11:00 – 11:15	Optimization of the calibration process of D19	Matteo Mariani, ILL
		Università di Roma La Sapienza
11:15 – 11:30	Diffusion of triphenylphosphine on graphite	Sara Pia Marincek, ILL
		University of Ljubljana
11:30 – 11:45	Spectral Characterization of FCC catalysts for XRF	Asma Mansouri, ESRF
	computed tomography	University of Genev
11:45 – 12:00	Pressure effects on the thermal denaturation of	Antonio Ćaliò, ILL
	Myoglobin	Università degli Studi di Palermo
12:00 – 12:15	Closing remarks	Paul Steffens (ILL)
Afternoon	Departure formalities	

Saturday, 29th September: Departure