

RAC International Summer School 2024

Focal theme: X-ray and neutron research on bio-inspired materials and sustainable energy technology
September 01 - 08, 2024, Poland

Time	Sunday, 01.09.	Monday, 02.09.	Tuesday, 03.09.	Wednesday, 04.09.	Thursday, 05.09.	Friday, 06.09.	Saturday, 07.09.	Sunday, 08.09.	Time				
	Arrival	Basics	Energy Materials	Bio-inspired Materials	Engineering Materials	Machine Learning	XFEL and Time Resolution	Departure					
07:30-08:30	Arrival (Check-in after 16:00)	Breakfast								07:30-08:30			
08:30-09:30		L1: Marek Stankiewicz Role of Large-scale Facilities	L6: Susan Schorr X-ray and Neutron Diffraction Analysis of Photovoltaic Materials	L10: Frank Schreiber Soft Matter Analysis with X-ray and Neutrons	L15: Mirijam Zobel Dynamics of Interfaces	L18: Stefan Kowarik What AI Means for X-ray Experiments	L22: Thomas Feuer Introduction to FELs			08:30-09:30			
09:30-10:30		L2: Rainer Wanzenberg Generation of Hard X-rays at Synchrotron Light Facilities	L7: Alessandro Tengattini Analysis of Batteries	L11: Paola Coan X-ray Phase Contrast Imaging	L16: Rasmus Toft-Petersen Inelastic Neutrons	L19: Simon Billinge Application of AI in Data Science	L23: Dominik Oberthür Serial Crystallography			09:30-10:30			
10:30-11:00		Coffee & Tea								10:30-11:00			
11:00-12:00		L3: Helmut Schober Generation of Neutrons	L8: Hans-Georg Steinrück Understanding Materials for Hydrogen Storage and Electrochemical Energy Storage	L12: Markus Osterhoff Coherent Imaging of Bio-inspired Materials	L17: Henning Poulsen X-ray Beam Techniques for Polycrystalline Materials	L20: Andy Götz Data Science	L24: Jacinto Sá Pump-probe Techniques at SR Sources and FELs			11:00-12:00			
12:00-13:00		Buffet-Lunch								12:00-13:00			
13:00-14:00		Free Time		Free Time		Student Lectures 8 lectures á 10 min		Free Time					
14:00-15:00		Free Time		Free Time		Cultural Excursion with outside dinner		Free Time					
15:00-16:00		L4: Helmut Dosch X-ray Scattering: Waves Clashing with Obstacles: Essentials and Mysteries	L9: Marie-Ingrid Richard CDI and Nanodiffraction	L13: Christian Gutt XPCS Studies of Protein Dynamics in Crowded Solutions				L21: Bridget Murphy Daphne, ESUO & ENSA Initiatives	L25: Marc Vrakking Attosecond Spectroscopy		Departure (Check-out before 12:00)	15:00-16:00	
16:00-16:30		Coffee & Tea								16:00-16:30			
16:30-17:30		L5: Wojciech Zajac Introduction to Neutron Scattering	Careers between Science and Industry: Best Practices (tbd)	L14: Sophie Le Cann Neutron Analysis of Bio Materials				Ullrich Pietsch How to write a successful Beamline Proposal		Tutorials Day VI		16:30-17:30	
17:30-18:30		Tutorials Day I		Tutorials Day II				Tutorials Day III		Tutorials Day IV & V		Keynote Lecture L26: Felix Pithan The Global Water Cycle in a Changing Climate	17:30-18:30
18:30-20:00		Welcome Reception & Social Gathering	Buffet-Dinner							Buffet-Dinner			
20:00-22:00			Poster Session I	Poster Session II	Free Time			Cultural Evening arranged by the Students		Formal Closing Dinner and Awards	20:00-22:00		

