RACIRI 2019 Summer School

Structure, Real-time Dynamics and Processes in Complex Systems

04. - 11.08.2019, Svetlogorsk, Russia

Time	Sunday 04.08.	Monday 05.08.	Tuesday 06.08.	Wednesday 07.08.	Thursday 08.08.	Friday 09.08.	Saturday 10.08.	Sunday 11.08.
	Arrival	X-ray & Neutron Sources, Fundamentals of Scattering	Experimental Techniques & related Theory	Basic Science, Quantum Materials, Data Science	Cultural Excursion	Soft Matter & Life Science	Applications towards a Sustainable Development	Departure
07:30-08:30		Breakfast						
08:30-09:30		Opening Ceremony	L6 *Alexander Belushkin* Neutron techniques for the study of condensed matter	L12 *Alexander Soldatov* Local order in a disordered kingdom: insight with synchrotron radiation	Excursion & Lunch	L18 *Harald Reichert* Hard x-rays for soft matter	L24 *Evgeny Antipov* Storage batteries - progress from neutron and x-ray research	Check out & Departure (before 12:00h)
09:30-10:30		L1 Introductory Lecture *Mikhail V. Kovalchuk*	L7 *Zahid Hussain* Advanced techniques in photoelectron spectroscopy	L13 *Hermann Dürr* Electron and spin dynamics		L19 *Sarah Koester* Hard x-rays for cell imaging	L25 *Stephan V. Roth* Biodegradable materials from renewable resources	
10:30-11:00		Coffee & Tea				Coffee & Tea		
11:00-12:00		L2 *Vladimir Voronin* State-of-the-art neutron sources	L8 *Joseph Nordgren* Soft x-ray emission spectroscopy and resonant inelastic x-ray scattering	L14 *Hlynur Gretarsson* Entering the world of spin-orbit-coupled materials using RIXS		L20 *Jörg Pieper* Structure and dynamics of biomolecules studied by neutron scattering	Free time	
12:00-12:30	Arrival & Check-in (rooms available from 13:00h)	Group Picture	Free time			Free time		
12:30-13:30		Lunch				Lunch		
13:30-14:30		L3 *Serguei Molodtsov* X-ray sources - from Röntgen's tube via SR towards XFEL facilities	L9 *Jaques Ollivier* Time-resolved measurements by neutron scattering	L15 *Marco Merlini* X-ray studies of matter at extreme pressures and high temperature		L21 *Valeriya Samygina* Structural Biology - a weapon against disease	L26 *Robert Schlögl* Dynamics of catalysts for energy applications	
14:30-15:30		L4 *Bridget Murphy* Basic scattering theory I - X-rays	L10 *Marianne Liebi* Advanced imaging techniques with coherent x-rays	L16 *Joachim Stohr* The nature of x-rays		L22 *Eleonora Shtykova* SAXS by stressed cells in vitro and in vivo L23 *Tatyana Feldman* n-study of visual pigment rhodopsin	L27 *Raif Vasilov* Bio-economics as the basis for a sustainable development	
15:30-16:00		Coffee & Tea	Coffee & Tea	Coffee & Tea		Coffee & Tea		
16:00-17:00		L5 *Frank Schreiber* Basic scattering theory II - Neutrons	L11 *Anders Nilsson* X-ray studies of the mysteries of water	L17 *Jonathan Taylor* Data management and software		Tutorials IV	Tutorials V	
17:00-18:00		Tutorials I	Tutorials II	Tutorials III		SCIENCE SLAM Presentations	L28 *Andrey Popeko* Keynote Lecture 150 years of Periodic Table of elements	
18:00-19:00		Free time	Free time	Free time			Free time (or bus trip to Closing Dinner)	
19:00-20:00	Welcome Barbecue & Social Gathering	Dinner				Dinner	Closing Dinner & Awards	
20:00-22:00		Poster Session I	Preparation of SCIENCE SLAM Preparation of Cultural Evening	Poster Session II	Dinner	Cultural Evening directed by the students		

Sponsored by: RFBR Russian Foundation for Basic Research; SwedNess; Federal Ministry of Education and Research