RACIRI 2018 Summer School

From Basic Science and Applications to Technologies inspired by Nature

25.08. - 01.09.2018, Rügen Island, Germany

Cliff Hotel Rügen, Cliff am Meer 1, 18586 Ostseebad Sellin (Navi: Siedlung am Wald 22a)

Time	Saturday 25.08.	Sunday 26.08.	Monday 27.08.	Tuesday 28.08.	Wednesday 29.08.	Thursday 30.08.	Friday 31.08.	Saturday 01.09.
	Arrival	X-ray and Neutron Sources, Scattering	Experimental Techniques for Structure and Dynamics	Soft Matter & Bio-Materials	Energy & Environment - Materials, Processes, Devices	Quantum Matter, Applications, Nature-inspired Technologies & Complementary Methods		Departure
07:30-08:30		Breakfast						
08:30-09:30			***Ferenc Mezei*** High energy resolution neutron spectroscopy	***Vladimir Volkov*** SAXS and SANS studies of disordered sytems	***Valentine P. Ananikov*** Catalysis by nanoparticles: outstanding technologies and unknown mechanisms	***Raif Vasilov*** Biotechnology for improving the quality of life	***Lars Berglund*** Biobased and bioinspired composites	Check out & Departure (before 12:00h)
09:30-10:30		9:15-9:40: **Opening Ceremony** 9:40-10:30: **Introductory Lecture** ***Günter Kaindl***	***Svante Svensson*** Advanced spectroscopy using synchrotron radiation	***Tommy Nylander*** Lipid-layer structure and biomolecular interactions by neutron and x-ray scattering	***Franz Himpsel*** Fostering clean energy by spectroscopy with synchrotron radiation	***Ivan Vartaniants*** Looking into the nano-world with coherent x-rays	***Ib Chorkendorff*** Nature inspired solar fuel technology	
10:30-11:00		Coffee & Tea		Group Picture	Coffee & Tea			
11:00-12:00		***Andreas Schreyer*** Neutron sources	Free time	Keynote Lecture ***Rolf-Dieter Heuer*** Lessons learned in science diplomacy	***Ralph Gilles*** In-situ and operando studies of batteries with neutrons	***Joachim Stöhr*** Magnetism: from a natural phenomenon to advanced technologies	Free time	
12:00-12:30	Arrival & Check-in (rooms available from 16:00h)	Free time		CREMLIN Session	Tutorials IV	Free time		
12:30-13:30		LUNCH			Pick-up of lunch bags	Lunch		
13:30-14:30		***Serguei Molodtsov*** X-ray sources	***Linda Young*** Dynamical imaging with XFELs	***Henry Chapman*** Protein nanocrystallography	Excursion	***Zhi-Xun Shen*** Quantum materials – insights from Einstein's electrons	***Sascha Schaefer*** Ultrafast nanoscale dynamics probed by time-resolved electron microscopy	
14:30-15:30		***Frank Schreiber*** X-ray and neutron scattering I	***Felix Roosen-Runge*** Dynamics of soft matter using neutron spectroscopy	***Andrey Konevega*** Macromolecular complexes studied by x-rays, neutrons and complementary methods		***Nils-Gunnar Vågstedt*** What batteries are needed for realizing battery trucks?	***Marta Carroni*** Cryo electron microscopy to determine the structure of biological complexes	
15:30-16:00		Coffee & Tea				Coffee & Tea		
16:00-17:00		***Frank Schreiber*** X-ray and neutron scattering II	SCIENCE SLAM I Preparation	***Kirsi Lorentz*** X-rays in human bioarchaeology		Tutorials V	***Winfried Petry*** Neutrons for medicine	
17:00-18:00		Tutorials I	Tutorials II	Tutorials III		SCIENCE SLAM II Presentations	Tutorials VI	
18:00-19:00		Free time					Free time	
19:00-20:00	Welcome Dinner	Dinner	Beach Barbecue & Social Gathering	Dinner		Dinner	Closing Dinner & Awarding Ceremony	
20:00-22:00		Poster Session I		Poster Session II		Cultural Evening directed by the students		