

CeNS Workshop Venice: Channels and Bridges to the Nanoworld

Time	Monday, September 21	Time	Tuesday, September 22	Time	Wednesday, September 23	Time	Thursday, September 24	Time	Friday, September 25
09:00	Welcome	09:00	Horst Weller Tailor-made synthesis & ligand design for the use of nanocrystals in materials- & life science applications	09:00	Yifan Cheng TRP channel structures by single particle cryo-EM - from blob-ology to atomic structures	09:00	Stefan Raunser Structural insights into life and death of a bug	09:00	Jörg Hartig Engineered ribozymes assynthetic genetic switches
09:15	Antoine van Oijen Molecular choreography on a tightrope: a single-molecule view of DNA replication	09:45	Chase Broedersz Breaking detailed balance at the mesoscale in active biological systems	09:45	Melike Lakadamyali Decoding chromatin organization with super-resolution microscopy	09:45	Thomas Klar From STED microscopy to STED lithography	09:45	Deborah Fygenson DNA nanotube nucleation: how it happens and what it can do for you
10:00	Klaus Müllen Carbon nanostructures as functional multitalents - sensing, catalysis, drug delivery, electronics	10:30	Coffee break	10:30	Coffee break	10:30	Coffee break	10:30	Closing remarks & coffee
10:45	Coffee break	11:00	Horst Vogel Ligand-gated ion channels: From 3D structure to transmembrane signaling	11:00	Matthias Scheffler Big-data analytics for materials science: concepts, challenges, and hype	11:00	Ebbe Andersen Principles of biomolecular design	Boats to San Zaccaria leave at 10:50 / 11:20 / 12:10 Train to Munich leaves at 1:35 pm from Venice train station	
11:15	Aurora Manzi Light-induced cation exchange for copper sulfide based CO ₂ reduction	11:45	Theobald Lohmüller Thermoplasmonic control of chemical reactions and cell function at the nanoscale	11:45	Eva Nogales Cryo-EM studies of complex systems: microtubule Dynamics and Transcription Initiation	11:45	Ulrich Schollwöck Improving material simulations with the dynamical mean-field theory		
11:35	Roland Beckmann title tba	Lunch (12:30-14:15)		Lunch (from 12:30) Boat from San Servolo at 12:40 and 13:30		Lunch (12:30-14:15)			
Lunch (12:20-14:15)		Lunch (12:30-14:15)		Lunch (12:30-14:15)		Lunch (12:30-14:15)			
14:15	Michael Gordon Manipulating light with nanostructures: controlling reflection to chemical imaging	14:15	Thomas Weitz Organic electronics: fundamentals and applications of organic field-effect transistors in flexible displays	Informal discussions		14:00	Tim Clark Simulating organic and hybrid electronic devices		
15:00	Sheref Mansy Cell-free genetic systems for the construction of cellular mimics	Posters session I & coffee (15:00-17:00)				Posters session II & coffee (15:00-17:00)			
15:45	Coffee break	Posters session I & coffee (15:00-17:00)				Posters session II & coffee (15:00-17:00)			
16:15	Victor Brar Electrostatically tunable metasurfaces for controlling optical wavefronts and thermal emission	Posters session I & coffee (15:00-17:00)				Posters session II & coffee (15:00-17:00)			
17:00	Thorben Cordes Mechanisms of membrane transport: a single-molecule view on ABC importers	17:00	Fernando Stefani Manipulating light, heat and forces at the nanoscale with metallic nanoparticles			17:00	Andrew Ellington Developing chemical reaction network computers		
		17:45	Omar Saleh Polymer mechanics across the force regimes			17:45	Diana Pippig Molecular tools for advanced single-molecule studies		