

### Wednesday 7 Dec

Times	Program	Speaker	Topic
13:00	Arrival + Registration		
14:00	Opening		
14:15	Talk	Caren Tischendorf HU Berlin	Modelling, Simulation and Optimization of Energy Transport Networks
14:45	Talk	Anya Heider Reiner Lemoine Institute	Flexibility requirements in a 100% renewable German power system with growing shares of sector coupling technologies
15:30	Talk	Dörte Kreher HU Berlin	Mathematical modelling of intraday electricity markets
16:15	Coffee break		
16:30	Talk	Franziska Appel IAMO	Biogas Boom Reloaded? – An agro-economic perspective
17:15	Talk	Christine Bonus HU Berlin	Towards Sustainable Public Transport in Cities in SSA: Strategies and Solutions
18:00	Energizer	Beatriz Beyer	Workshop Session
18:30	Poster session		

### Thursday 8 Dec

Times	Program	Speaker	Topic
09:00	Talk	Juliana Morbec Keele University, UK	Quantum simulations of materials for renewable and sustainable energy
09:45	Talk	Clara Patricia Marshall Fritz Haber Institute	Synthesis of catalysts towards the use of methanol and ammonia as chemical energy carriers
10:30	Coffee break		
10:45	Talk	Agnès Cousin University of Toulouse, France	Soils diversity at Mars
11:30	Talk	Marie Gentzmann Bundesanstalt für Geowissenschaften und Rohstoffe	Enabling sustainable technologies through the recovery of specialty metals from industrial residues – A spotlight on Scandium
12:15	Lunch		
13:15	Talk	Petra Metz HU Berlin	About WiNS
13:30	Talk WiNS fellowship awardee #1	Sara Nocentini National Institute of Metrological Research, Italy	Responsive polymers in action: microrobots and integrated photonics controlled by light
14:00	Talk WiNS fellowship awardee #2	Katrín Blöndal Brown University, USA	Advanced thermochemistry computations for improved microkinetic modeling
14:30	Talk WiNS fellowship awardee #3	Alaka Panda S. K. C. G. Autonomous College, India	Formation of bismuth iron oxide-based core-shell structures and their dielectric, ferroelectric and magnetic properties

15:00	Talk WiNS fellowship awardee #4	Deborah Natumanya Faculty of Computing and Informatics, Uganda	Environmental - Hemorrhage due to the Ever Increasing Demand and Usage of Paper in Sub-Saharan Africa: E-Technologies to the Rescue
15:30	Talk WiNS fellowship awardee #5	Shubhangi Srivastava National Institute of Advanced Studies, India	A Tail of two Cities: Human – Dog Relations in Urban India and Germany
16:00	Coffee break		
16:15	Industry Talk #1	Ankita Mitra Vaayu Tech	Communication: Closing the gap to implement low-carbon energy
16:45	Industry Talk #2	Katharina Witte Berlin Partner	Photonics Cluster Berlin Brandenburg – high technology for a sustainable world
17:15	Industry Talk #3	Lijia Long Siemens Gamesa	From corrective to proactive maintenance, what wind energy industry has done?
18:00	Social Event	Speed Dating & Career Fair	

### Friday 9 Dec

Times	Program	Speaker	Topic
09:00	Talk	Sandra Kiefer University of Oxford	The Combinatorial Side of Graph Neural Networks
09:45	Talk	Caroline Geiersbach Weierstrass Institute	Game-Theoretical Modeling for Green Hydrogen Markets
10:15	Coffee break		
10:30	Talk	Katerina Kanevche FU Berlin	Infrared nanoscopy and tomography of intracellular structures: glimpse inside cells with infrared light
11:15	Talk	Krisztina Nagy Institute of Biophysics, Hungary	Lessons from the microcosmos - Nanotechnology, social sciences and biology meet in the world of microbes
12:00	Concluding remarks + Poster Prize Ceremony		
12:30	Departure		

**Venue: Erwin Schrodinger Zentrum (ESZ),** Lecture Hall 0'101 + Foyer,  
Rudower Chaussee 26, 12489 Berlin

**Except: 8 Dec 2022, 18:00-20:00 Social Event: Speed Dating & Career Fair,** IRIS Research building,  
Zum großen Windkanal 2, 12489 Berlin

### Book of Abstracts

Partner:



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