



JÜLICH
FORSCHUNGSZENTRUM

HELMHOLTZ
ASSOCIATION

HITEC

Graduate School
for energy & climate

HITEC Symposium

Lecture Theatre, Building 4.7 (ZB)

23 March 2015

13:00	On-Site Registration	
14:00	Welcome	Prof. Dr. Harald Bolt and Prof. Dr. Uwe Rau
14:10	George Beridze, IEK-6	Nuclear Waste Management on Supercomputers: Reliable Modeling of Experimentally Challenging Materials
14:30	Maarten Blommaert, IEK-4	Towards Simulation Based Optimal Design of Fusion Reactor Components
14:50	Daniel Hanß, IEK-9	Cycling Degradation of Li-Ion Batteries
15:10	Silvio Kalisch, IEK-7	Ray-Tracing of Atmospheric Gravity Waves
15:30	Patrick Niehoff, IEK-1	Ceramic Membranes for Energy Efficient Oxygen Separation
15:50	Coffee break	30 Minutes
16:20	Thiemo Pesch, IEK-STE	Integrated Assessment of the Energy System Regarding Detailed Unit Commitment and Power Grid Constraints
16:40	Manuel Rietz, RWTH Aachen University	Light Field Imaging – A Promising Approach to Volumetric Velocimetry
17:00	Isabel Steudel, IEK-2	Advanced Energy Systems – Materials under Extreme Environments
17:20	Bugra Turan, IEK-5	Thin-Film Photovoltaics: from Cells to Modules by Laser Processing
17:40	Cheng Wu, IEK-8	The Role of Vegetation for Tropospheric Ozone Balance: Possible Changes under Future Climate Conditions
18:00	Break	60 Minutes
Evening Programme		
19:00	Dinner: Appetizers	20 Minutes
19:20	HITEC Communicator Awards for the 3 best scientific talks	
19:30	Dinner: Buffet	