



JÜLICH
FORSCHUNGSZENTRUM

HELMHOLTZ
ASSOCIATION

HITEC

Graduate School
for energy & climate

HITEC Symposium

Lecture Theatre, Building 4.7 (ZB)

25. April 2013

13:00	Registration	
14:00	Welcome	Prof. Dr. Harald Bolt and Prof. Dr. Uwe Rau
14:20	Svenja Ebert, IEK-1	Failure mechanism of non-stoichiometric Mg-Al-spinel abradable coatings under thermal cyclic loading
14:40	Chichi Li, IEK-2	Microstructure and mechanical behavior of reactive-air-brazed metal/ceramic joints
15:00	Niels Gierse, IEK-4	Probing the first wall in fusion reactors: Laser Induced Ablation Spectroscopy (LIAS) in TEXTOR
15:20	Ulrich Paetzold, IEK-5	Light-harvesting with plasmonic nanostructures in thin-film silicon solar cells
15:40	Coffee break	30 Minutes
16:10	Clemens Listner, IEK-6	Satellite imagery change detection in support of nuclear non-proliferation and international safeguards
16:30	Christian Rolf, IEK-7	Volcanic-ash-induced cirrus clouds
16:50	Sebastian Gomm, IEK-8	Investigation of the atmospheric oxidation strength in the lower troposphere: Measurements of hydrogen oxides aboard a Zeppelin NT
17:10	Léonhard Kröll, IEK-9	Modeling of degradation phenomena in a SOFC anode
17:30	Olga Schenk, IEK-STE	Influence of technology-oriented agreements on european policy in the field of carbon capture and storage
17:50	Coffee break	50 Minutes
18:40	Dinner: Appetizers	30 Minutes
19:10	Awards for best talks	
19:20	Evening lecture	Prof. T. W. Clyne, University of Cambridge, UK, Member of the HITEC Advisory Board: Thermal barrier coatings in gas turbines
20:00	Dinner: Buffet	