



JÜLICH  
FORSCHUNGSZENTRUM

HELMHOLTZ  
ASSOCIATION

# HITEC

Graduate School  
for energy & climate

## HITEC Symposium

Lecture Theatre, Building 4.7 (ZB)

25. April 2013

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