

# 100 years IEC

## 10.-12. OCTOBER 2019



TECHNISCHE UNIVERSITÄT  
BERGAKADEMIE FREIBERG  
The University of Resources. Since 1765.



Institute of  
Energy Process Engineering and  
Chemical Engineering

## SCIENTIFIC COLLOQUIUM

### Solutions for the Carbon Challenge

A carbon transition for our carbon intensive society:  
Innovation, challenges and future needs for the sustainable utilization of carbon resources

Alte Mensa, Peterstrasse 5, 09599 Freiberg, 11<sup>th</sup> October 2019

## PROGRAM

<b>Welcome by IEC</b>	
9:00 – 9:20	<b>Bernd Meyer</b> Director IEC TU Bergakademie Freiberg, Germany
<b>Ceremonial Greetings</b>	
9:20 – 10:00	<b>Klaus-Dieter Barbknecht</b> Rector TU Bergakademie Freiberg, Germany
	<b>Vladimir Litvinenko</b> Rector Mining University St. Petersburg, Russia
	<b>Uwe Gaul</b> Representative of the Free State of Saxony State Secretary for Higher Education, Research and the Arts, Germany
	<b>Matthias Damm</b> District Administrator for the district Mittelsachsen, Saxony
	<b>Sven Krüger</b> Mayor of Freiberg, Germany
	<b>Reinhold Elsen</b> Board Member DGMK, Germany
	<b>Ralf B. Wehrspohn</b> Executive Vice President Fraunhofer-Gesellschaft, Germany
	<b>Andrew Minchener</b> General Manager IEA Clean Coal Centre, UK
	<b>Fuchen Wang</b> Professor, East China University of Science and Technology, China
	<b>Yong Wang Li</b> President, Synfuels China Technology Co., Ltd., China
10:00 – 10:30	<i>Keynote Lecture: E-mobility – the global race for high-tech metals</i> <b>Volker Steinbach</b> Vice President Federal Institute for Geosciences and Natural Resources, Germany
10:30 – 11:00	<b>Coffee Break</b>

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### Scientific Session International Developments

11:00 – 11:20	<b>Jin Bai</b> Chinese Academy of Sciences, Institute of Coal Chemistry, China	<b>The utilization of carbon resources in China</b>
11:20 – 11:40	<b>Makoto Kobayashi</b> Central Research Institute of Electric Power Industry, Japan	<b>Reconcile resource and efficiency in coal derived energy utilization in Japan</b>
11:40 – 12:00	<b>Aleksander Sobolewski</b> Institute for Chemical Processing of Coal, Poland	<b>Background for circular carbon economy implementation in Poland</b>
12:00 – 12:20	<b>Rajender Gupta</b> University of Alberta, Canada	<b>Oil sands of Alberta – Environmental concerns and innovations</b>
12:20 – 12:40	<b>Jason D. Laumb</b> Energy & Environmental Research Center, USA	<b>Making a case for CCUS</b>
12:40 – 13:40	<b>Lunch</b>	

### Scientific Session Carbon Resources

13:40 – 14:10	<b>Bernd Meyer and Sven Kureti</b> IEC TU Bergakademie Freiberg, Germany	<b>Closing the carbon cycle – The future research tasks of IEC</b>
14:10 – 14:30	<b>Andrew Minchener</b> IEA Clean Coal Centre, UK	<b>Coal utilization – the past, present and future</b>
14:30 – 14:50	<b>Reinhold Elsen</b> RWE Power AG, Germany	<b>Carbon Circular Economy - a chance and a necessity</b>
14:50 – 15:10	<b>Guangsuo Yu</b> East China University of Science and Technology, China	<b>The challenges of coal utilization in China and entrained-flow gasification technology development at ECUST</b>
15:10 – 15:30	<b>Markus Reissner</b> Pyral AG, Germany	<b>Aluminum recycling for packaging waste: Contribution for a circular economy</b>
15:30 – 16:00	<b>Coffee Break</b>	

### Scientific Session Carbon Utilization

16:00 – 16:20	<b>Kurt Wagemann</b> DECHEMA e.V., Germany	<b>The Kopernikus Power-to-X project – results and perspectives</b>
16:20 – 16:40	<b>Thomas Garbe</b> Volkswagen AG, Germany	<b>Market introduction strategies for synthetic fuels</b>
16:40 – 17:00	<b>Jörg Sauer</b> Karlsruhe Institute of Technology, Germany	<b>Synthetic fuels for transportation – some insights on raw materials, processes, applications</b>
17:00 – 17:20	<b>Mario Kuschel</b> Chemieanlagenbau Chemnitz GmbH, Germany	<b>Low carbon fuel by methanol to gasoline technology</b>
17:20 – 17:40	<b>Eiichiroh Mori</b> Nippon Steel Engineering Co., Ltd., Japan	<b>Development of brown coal reforming technology and biomass utilization expansion technology in coal thermal power generation</b>

### Closing Ceremony

## FOR MORE INFORMATION

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