

# 1<sup>st</sup> International Conference on Energy Geotechnics - ICEG2016

ISSMGE TC308 on Energy Geotechnics

## Conference Preview

Kiel University, Kiel, Germany, August 29-31, 2016

## About the Conference

With the increasing energy demand and climate change implications, the need of sustainable energy systems with an integrated scheme of energy production, transport and transfer as well as energy storage is of utmost importance. This issue is attracting huge interests from the point of view of research in geotechnical engineering. The core area of the research is focused on new developments and solutions for civil, environmental and industrial applications.

With the establishment of the International Conference of Energy Geotechnics, which will be hosted for the first time at Kiel University, a platform for interaction and communication in this young research field will be provided.

Kiel offers various research institutions in and around this research field, and is an excellent location for international research exchange. Besides, Kiel is a traditional Harbour city located at the Baltic Sea and offers a nice touristic, natural and friendly environment.

## Program Overview

A number of activities are envisioned for the ICEG-2016 program, including:

- Keynotes/State-of-the-Art/State-of-the-Practice lectures
- Technical sessions
- Posters
- Exhibitors
- Pre-Conference Events
- Post –Conference Events
- Networking Opportunities: breaks, lunch & dinner, outdoor fun activities and conference events

## ***National Technical Program Committee***

Frank Wuttke, Kiel University, Germany

Sebastian Bauer, Kiel University, Germany

Andreas Dahmke, Kiel University, Germany

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## Questions / Contact

### ***Technical Program***

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### ***Conference Organization and Inquiries***

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## Conference Publications

All submitted technical papers will be generally peer-reviewed and published with keynote lectures in a Conference Proceeding Book by Balkema CRC Press and selected technical papers will be collected for themed issue journal publication.

### ***Conference Webpage***

[www.uni-kiel.de/ICEG2016](http://www.uni-kiel.de/ICEG2016)

(under prepration)

## Keynotes, Technical Papers & Important Dates

The ICEG2016-Program Committee will invite for keynote presentations and call for technical papers by the following important dates / deadlines

Call for Abstracts Open: 01 June 2015

Deadline Call for Abstracts: 31 September 2015

Paper Submission Deadline: 31 January 2016

1st Int. Conference on Energy Geotechnics: 29-31 August 2016

<b>Carbon Sequestration</b>	<b>Energy Geo-Storage &amp; Geo-structures</b>	<b>Urban Planning for Energy Geo-Systems</b>
<ul style="list-style-type: none"> <li>• CO2 Sequestration</li> <li>• Gas Storage Systems</li> <li>• Biogeochemical Cycling of Carbon</li> </ul>	<ul style="list-style-type: none"> <li>• Energy Geo-Storage Systems</li> <li>• Seasonal and Daily Storage</li> <li>• Cyclic Thermal Loading</li> <li>• Energy Piles</li> </ul>	<ul style="list-style-type: none"> <li>• Geo-Energy Infrastructure</li> <li>• Geotechnical and Environmental Application Rules</li> <li>• Urban Geo-storage Development</li> </ul>
<b>Fundamentals and Numerical Methods in Energy Geotechnics</b>	<b>Gas Hydrate Sediments</b>	<b>Subsurface Geo-thermal Systems</b>
<ul style="list-style-type: none"> <li>• Coupled Problems &amp; Theories</li> <li>• THMC Developments</li> <li>• Numerical Modelling</li> </ul>	<ul style="list-style-type: none"> <li>• Exploration &amp; Characterization</li> <li>• Drilling &amp; Production</li> <li>• Modelling / Simulation</li> </ul>	<ul style="list-style-type: none"> <li>• Shallow Geothermal Systems</li> <li>• Deep Geothermal Systems</li> <li>• Modelling</li> <li>• Bio-Influences</li> </ul>
<b>Experimental Studies &amp; Material Design in Energy Geotechnics</b>	<b>Natural &amp; hydraulic fractured Reservoirs</b>	<b>Nuclear Waste Deposits</b>
<ul style="list-style-type: none"> <li>• Experimental Measurements &amp; Monitoring</li> <li>• Experimental Studies</li> <li>• Design of Thermal Soil Parameter</li> </ul>	<ul style="list-style-type: none"> <li>• Subsidence</li> <li>• Hydraulic Fracturing</li> <li>• Fault activation</li> <li>• Reservoir characterization &amp; activation</li> </ul>	<ul style="list-style-type: none"> <li>• Nuclear Waste Containments</li> <li>• Buffer Materials</li> <li>• Deposits and Mining systems</li> </ul>

# Conference Technical Tours & Sponsorship

## Pre-Conference Event

*Visit GEOMAR / Helmholtz Centre for Ocean Research, Kiel - Topics about addressing submarine gas hydrate reservoirs – detection, exploration, simulation and drilling*

*Conference Eve – Welcome (drinks & snacks)*

## Planned Post-Conference Event

- 1. Option: Visit - CO2 Pilot storage site – Ketzin (1 Day)*
- 2. Option: Visit - Offshore wind power site – (1 Day)*
- 3. Option: Visit - Site project of small (home) and large (industrial) energy storage prototypes (1 Day)*

## Sponsorship

This conference, first of its kind in a new field of geotechnical engineering, offers a high visibility and marketing opportunity during the conference due to sponsorship participation. Further information about it please follow the ‘Sponsoring Information’ on the conference web page.



# Welcome in Kiel - 2016



Photo: Jürgen Haacks



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