



International Meeting and Summer School GeoEnergy – From Visions to Solutions

1-3 & 6-8 September, 2010, Potsdam/Germany

International Meeting 2010

How can we satisfy future energy needs but still protect our climate? GeoEn meets this challenge with forward-looking and exciting research themes.

The International Meeting will provide a great opportunity to discuss the state of the art in geenergy research. Results from the unconventional resource Shale Gas, geothermal energy and ways to prevent carbon dioxide emissions by CCS-technology will be presented for the first time since the launch of the GeoEn-project in 2008. GeoEn integrates various scientific and engineering research disciplines. Synergies will receive pride of place at the meeting.

Furthermore, we invite all undergraduate and graduate students to join the GeoEn Summer School and to dig deeper into geenergy. Tutorials and exhibits will balance the theory provided. Social events will help to expand your network in an atmosphere designed for a new generation of geoscientists.

GeoEn

GeoEn combines geenergy research expertise from across Brandenburg. The BMBF-funded regional research network has three major partners: the Brandenburg Technical Universität of Cottbus (BTU), the University of Potsdam (UP) and the Helmholtz Research Centre Potsdam GFZ.

www.geoen.de

Scientific Committee

Brian Horsfield (GFZ)
Jens Kallmeyer (UP)
Hans-Joachim Krautz (BTU)
Maria Mutti (UP)
Magdalena Scheck-
Wenderoth (GFZ)

Local Organizing Committee

Astrid Ahke (GFZ)
Mary Lavin-Zimmer (GFZ)
Claudia Röhl (GFZ)
Alexander Rudloff (GFZ)

Information

Venue

International Meeting 6-8 September 2010:
GFZ German Research Centre for Geosciences,
Potsdam/Germany

Summer School 1-3 September 2010:
University of Potsdam, Institute for Geosciences,
Potsdam/ Germany

Registration

The registration deadline for the International Meeting and Summer School is June 30, 2010.

The registration fee for the International Meeting is 120 Euros, reduced to 40 Euros for students. This includes abstracts, conference catering and a dinner.

Participation in the summer school is free of charge, but registration is required.

Please use the registration form on

<http://www.geoen.de/index.php/convention-2010.html>

Abstract Submission

Please submit your abstract by June 15, 2010
using the form on

<http://www.geoen.de/index.php/convention-2010.html>

Contact

For further questions please contact Astrid Ahke
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Address

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1-3 September, 2010, Potsdam/Germany

Day 1 / 1 Sep

13-14:00

Registration & GeoEnergy Drink

14-14:15

Introduction to geoenergy (GeoEn)
B. Horsfield

GeoEn-Core Themes

14:15-15:00

CO₂-Separation & CO₂-Storage
M. Klatt, M. Kühn / A. Liebscher

15-15:30

Geothermal Technologies
E. Huenges

15:30-16:00

Shale Gas Potential
H.-M. Schulz

16-16:30 BREAK

GeoEn-Crosscutting Themes

16:30-17:00

Reservoir characterization
R. Streich

17-17:15

Reservoir processes
S. Regenspurg

17:15-17:30

Process modelling
M. Scheck-Wenderoth

17:30-17:45

Geomicrobiology
H. Würdemann

17:45-18:15

Geotechnologies
M. Nimtz

Evening: Get-together/BBQ

Day 2 / 2 Sep

Case Studies

9:30-12:00

CO₂-Separation & Transport

BASIC-Seminar (60 min)
Separation techniques (M. Klatt)

TUTORIAL (90 min)

Parameter studies on separation and transport (M. Nimtz)

Interactive power plant model

12:00-13:00 BREAK

13:00-15:30

CO₂ Storage

BASIC-Seminar (60 min)

TUTORIAL (90 min)
A. Liebscher, M. Kühn

15:30-16:00 BREAK

16-18:30

Geothermal Technologies

BASIC-Seminar (60 min)
Overview and Case study
(E. Huenges & geothermal team)

TUTORIAL (90 min)

Case study to practice temperature modelling using Feflow
(G. Blöcher, M. Cacace et al.)

Evening: Social Event

Day 3 / 3 Sep

Case Studies

9-11:30

Shale Gas

BASIC-Seminar (60 min)

TUTORIAL (90 min)

H.-M. Schulz, M. Mutti

11:30-12:30 BREAK

12:30 - 15:30

Presentation CASE STUDIES:
CO₂ Separation & Transport, CO₂ Storage, Geothermal Technologies, Shale Gas

15:30-16:30

Final Discussion

16:30 End and Departure

A maximum number of participants is 25.

No costs are due for the course, but participants will have to cover their travel and accommodation costs. We will help recommend accommodation if required.

Contact:

Dr. Jens Kallmeyer (University of Potsdam)
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Dr. Astrid Ahke (GFZ)
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International Meeting GeoEnergy – From Visions to Solutions

6-8 September, 2010, Potsdam/Germany



Day 1

Geoenergy – The CO₂-challenge

Opening & Introductory Talk

Session 1

CO₂-Capture, Transport and Storage

from combustion to reservoir:
the entire CCS-process chain
from geological and
engineering viewpoints

Key Note Speakers:
Paolo Smith Schneider –
UFRGS, Puerto Alegre/
Brasil

Franz May – BGR,
Hannover/Germany (invited)

Poster Session

GeoEn – Dinner:

Get on board for a boat trip
on the regional rivers and
lakes.



Day 2

Geoenergy – New horizons

Session 2

Shale Gas

chemical and physical properties
governing rock fabric and gas
occurrence

Key Note Speaker:
Ursula Hammes – USGS,
Austin/Texas

Session 3

Geothermal Technologies

regional to reservoir scale,
exploration of the thermal field,
reservoir engineering

Invited Speaker:
Jan-Diederik van Wees –
TNO, Amsterdam/
Netherlands

Session 4

Tools and Disciplines

Key Note Speaker:
Phil Wannamaker -
University of Utah, Utah/
USA

4.A Reservoir exploration
basin analysis, reservoir
characterization, basin and
process modeling

4.B Reservoir exploitation
drilling technology,
geomicrobiology, monitoring,
materials and corrosion

Day 3

Geoenergy – The next generation

Session 5

The Human Factor
Policies, economics, education
and outreach

Key Note Speaker:
Sven Bode – Arrhenius,
Hamburg/Germany

Final Plenum Discussion

Side program



Field trips to local pilot
projects



CO₂-storage site
Ketzin (~3h)



CO₂-separation power
plant Schwarze Pumpe
(~5h)



Geothermal energy at
Groß Schönebeck
(~5h)