



ENGINE

ENhanced Geothermal Innovative Network for Europe

Launching Conference

12-15 February 2006

BRGM - ORLÉANS - FRANCE



ENGINE

Programme

<http://engine.brgm.fr>



Geosciences for a sustainable Earth

brgm



Detailed Program - Launching conference

Sunday 12 February 2006 - Wednesday 15 February 2006

BRGM, Orléans, France

Sunday 12 February 2006

14h00 – 19h00 - Reception of participants - Hôtel Domaine Portes de Sologne (ARDON)

19h00 – 21h00 - Reception of participants: Ice breaker - Hôtel Domaine Portes de Sologne



Monday 13 February 2006

- 8h30 – 10h00** - Formal meeting of the Executive Group - J2 - 8th floor
- 8h30 – 12h00** - Reception of registrants - Auditorium
- 9h00 – 9h15** - Bus transfer - Hôtel Domaine Portes de Sologne to BRGM
- 9h30 – 9h45** - Bus transfer - Hôtel Domaine Portes de Sologne to BRGM

10h00 – 12h00

Work Package Meetings

- 10h00 – 12h00** - Work package special meetings: Work package WP2 - D2 - 1st floor - 119
Convener: CALCAGNO Philippe
- 10h00 – 12h00** - Work package special meetings: Work packages WP3 & WP6 - C4 - Ground floor - R 31
Conveners: MANZELLA Adele, KOHL Thomas
- 10h00 – 12h00** - Work package special meetings: Work packages WP4 & WP7 – D2 - 1st floor - 117
Conveners: THORHALLSSON Sven, HUENGES Ernst
- 10h00 – 12h00** - Work package special meetings: Work packages WP5, WP8 & WP9 - C1 - Ground floor - R 05
Conveners: KALTSCHMITT Martin, KARYTSAS Costas, LOKHORST Ad
- 12h00 – 13h15** - Lunch break - Restaurant
- 13h15 – 13h30** - Coffee break - Auditorium

13h30 – 15h40

OPENING SESSION – Auditorium

- 13h30 – 13h45** Welcome from the President Philippe VESSERON - BRGM
- 13h45 – 14h00** Welcome from the President Michèle PAPPALARDO - ADEME
- 14h00 – 14h20** - FOUILLAC Christian - Geothermal energy and strategies to reduce greenhouse gas emissions
- 14h20 – 14h40** - SCHUPPERS Jeroen - EC support to geothermal energy research and demonstration



- 14h40 – 15h00** - KALTSCHMITT Martin - Policies and strategies for the development of geothermal energy
- 15h00 – 15h20** - RYBACH Ladislaus - Enhanced Geothermal Systems: challenges and problems ahead
- 15h20 – 15h40** - LEDRU Patrick - Why a co-ordination action about Enhanced Geothermal System?
- 15h40 – 16h00** - Coffee break - Auditorium

16h00 – 18h00

SESSION 1: Current and planned geothermal activity in Europe

Auditorium

- 16h00 – 16h15** - FRITSCH Daniel - Current status of the EGS Soultz project: main achievements, results and targets
- 16h15 – 16h30** - BAUMGÄRTNER Jörg - Geothermal exploration in the Upper Rhine valley in Germany
- 16h30 – 16h45** - HOPKIRK Robert - The Swiss Deep Heat Mining programme: activities & perspectives
- 16h45 – 17h00** - Questions and discussions
- 17h00 – 17h15** - HUENGES Ernst - Current status of the EGS Gross Schönebeck project within the North German basin: main achievements and perspectives
- 17h15 – 17h30** - ORZOL Jens - The GeneSys- and Prometheus-Projects: concepts for the extraction of heat from deep and tight sedimentary rock
- 17h30 – 17h45** - MANZELLA Adele - Current status of the high enthalpy conventional geothermal fields in Europe and the potential perspectives for their exploitation in terms of EGS
- 17h45 – 18h00** - Questions and discussions
- 18h15 – 19h00** - Bus transfer - BRGM (visitor reception) to Orléans downtown
- 19h00 – 20h00** - Orléans City Hall reception - Hôtel Groslo
- 20h00 – 23h00** - Free time - Orléans
- 23h00 – 23h30** - Bus transfer - Orléans downtown (City Hall) to Hôtel Domaine Portes de Sologne



Tuesday 14 February 2006

8h00 – 8h15 - Bus transfer - Hôtel Domaine Portes de Sologne to BRGM

8h30 – 8h45 - Bus transfer - Hôtel Domaine Portes de Sologne to BRGM

9h00 – 11h00

SESSION 2: What needs for successful investigation of enhanced geothermal systems?

Auditorium

9h00 – 9h15 - MENDRINOS Dimitrios - A review of the results presented in WGC 2005 concerning the investigations of enhanced geothermal systems

9h15 – 9h30 - FABRIOL Hubert - Evaluation of the different geophysical exploration methods through analysis of experiences in Europe and overseas

9h30 – 9h45 - MANZELLA Adele - Magnetotelluric in combination with seismic data for geothermal exploration

9h45 – 10h00 - Questions and discussions

10h00 – 10h15 - BRUHN David - Rising open questions on investigation of Enhanced Geothermal Systems, as addressed by the I-GET project

10h15 – 10h30 - CAPPETTI Guido - How EGS is investigated in the case of the Larderello geothermal field?

10h30 – 10h45 - HOLL Heinz-Gerd - Geothermal reservoir characterisation of clastic sedimentary targets - needs and gaps

10h45 – 11h00 - Questions and discussions

11h00 – 11h30 - Coffee break - Auditorium



11h30 – 12h45

SESSION 3: Where shall we find new geothermal resources at depth at the scale of Europe?

Auditorium

11h30 – 11h45 - DÖVÉNY Péter - EGS prospects in Hungary

11h45 – 12h00 - GENTER Albert - EGS resource in France and Europe

12h00 – 12h15 - CLOETINGH Sierd - Lithosphere temperatures and geothermal energy

12h15 – 12h30 - GUILLOU-FROTTIER Laurent - Temperature profiles in geothermal systems

12h30 – 12h45 - Questions and discussions

12h45 – 13h00

SESSION 3: Where shall we find new geothermal resources at depth at the scale of Europe?

Poster session - Auditorium

12h45 – 13h00 - TESAURO Magdala - 3D strength and thermal model of intraplate Europe

13h00 – 14h15 - Lunch break - Restaurant

14h15 – 14h30 - Coffee break - Auditorium

14h30 – 15h15

SESSION 3: Where shall we find new geothermal resources at depth at the scale of Europe?

Auditorium

14h30 – 14h45 - FOERSTER Andrea - The geothermal use of HHP granites: the recycling of an old concept

14h45 – 15h00 - WRÓBLEWSKA Marta - Development of Polish Geothermics in relationship to heat flow data

15h00 – 15h15 - Questions and discussions



15h15 – 16h15

SESSION 4: What lessons from the oil and geothermal field exploitation for the stimulation of the reservoir?

Auditorium

- 15h15 – 15h30** - KOHL Thomas - Drilling, stimulation and reservoir assessment for EGS and UGR projects
- 15h30 – 15h45** - ASMUNDSSON Ragnar - Needs and requirements for high temperature instrumentation in extreme geothermal environment
- 15h45 – 16h00** - EVANS Keith - Microseismics and reservoir engineering: What can we learn and what is the price?
- 16h00 – 16h15** - Questions and discussions
- 16h15 – 16h45** - Coffee break - Auditorium

16h45 – 18h30

SESSION 4: What lessons from the oil and geothermal field exploitation for the stimulation of the reservoir?

Auditorium

- 16h45 – 17h00** - DORBATH Louis - Microseismicity developments during hydraulic stimulations at Soultz-sous-Forêts
- 17h00 – 17h15** - TISCHNER Torsten - Hydraulic stimulation of EGS: A comparison of the HDR-project Soultz and the GeneSys project
- 17h15 – 17h30** - GENTIER Sylvie - Hydro-mechanical modeling of fractured crystalline reservoirs hydraulically stimulated
- 17h30 – 17h45** - Questions and discussions
- 17h45 – 18h00** - VUATAZ François-David - Overview of chemical stimulations of EGS and non EGS reservoirs
- 18h00 – 18h15** - ROSE Peter - A comparison of hydraulic stimulation approaches within EGS and conventional geothermal reservoirs with examples from Soultz, France and Coso, California
- 18h15 – 18h30** - Questions and discussions
- 18h30 – 18h45** - Bus transfer - BRGM (visitor reception) to Hôtel Domaine Portes de Sologne
- 19h30 – 23h00** - Conference dinner - Restaurant Domaine Portes de Sologne



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SESSION 5: How to improve exploitation and cost-effectiveness of geothermal energy and manage environmental and social impacts?

Auditorium

9h00 – 9h15 - MÉGEL Thomas - Requirements for the development of EGS

9h15 – 9h30 - MENDRINOS Dimitrios - The environmental impact of the geothermal industry

9h30 – 9h45 - KÖHLER Silke - Trigeneration with geothermal energy - potentials and pitfalls of combined supply with power, heating and cooling

9h45 – 10h00 - STAMATAKIS Emmanuel - Scale detection in geothermal systems: the use of nuclear monitoring techniques

10h00 – 10h15 - UNGEMACH Pierre - Geothermal reservoir management a thirty year practice in the Paris Basin

10h15 – 10h30 - Questions and discussions

10h30 – 10h45 - Coffee break - Auditorium

10h45 – 12h00

SESSION 5: How to improve exploitation and cost-effectiveness of geothermal energy and manage environmental and social impacts?

Auditorium

10h45 – 11h00 - TRAINÉAU Hervé - Geothermal development in the volcanic Caribbean islands and EGS perspectives

11h00 – 11h15 - POVAROV Oleg - State of the art and prospects for geothermal energy development in Russia

11h15 – 11h30 - KAYA Tevfik - Development of the Geothermal Energy in Turkey, state of art and perspectives

11h30 – 11h45 - KARYTSAS Constantine - The LOW-BIN project of DG-TREN (efficient low temperature geothermal binary power) aiming in improving EGS exploitation costs

11h45 – 12h00 - Questions and discussions



12h00 – 13h00

SESSION 6: How to promote geothermal energy through dissemination of knowledge, education and training?

Auditorium

- 12h00 – 12h15** - CALCAGNO Philippe - The information system of the ENGINE co-ordination action
- 12h15 – 12h30** - ROSCA Marcel - Promotion of the geothermal energy through education and training
- 12h30 – 12h45** - MANZELLA Adele - Information and dissemination of knowledge in the field of geothermal energy
- 12h45 – 13h00** - Questions and discussions
- 13h00 – 14h30** - Lunch break - Restaurant

14h30 – 16h00

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- 16h00 – 18h00** - Formal meeting of the Steering Committee - C4 - Ground floor R 31
- 16h30 – 17h00** - Bus transfer - BRGM (visitor reception) to Orléans downtown



Event Program

Sunday 12 February 2006

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OPENING SESSION – Auditorium

- 15h40 – 16h00** - Coffee break - Auditorium



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Auditorium

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Auditorium

11h00 – 11h30 - Coffee break - Auditorium

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SESSION 3: Where shall we find new geothermal resources at depth at the scale of Europe?

Auditorium

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14h30 – 15h15

SESSION 3: Where shall we find new geothermal resources at depth at the scale of Europe?

Auditorium

15h15 – 16h15

SESSION 4: What lessons from the oil and geothermal field exploitation for the stimulation of the reservoir?

Auditorium

16h15 – 16h45 - Coffee break - Auditorium



16h45 – 18h30

**SESSION 4: What lessons from the oil and geothermal field exploitation
for the stimulation of the reservoir?**

Auditorium

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9h00 – 10h30

SESSION 5: How to improve exploitation and cost-effectiveness of geothermal energy and manage environmental and social impacts?

Auditorium

10h30 – 10h45 - Coffee break - Auditorium

10h45 – 12h00

SESSION 5: How to improve exploitation and cost-effectiveness of geothermal energy and manage environmental and social impacts?

Auditorium

12h00 – 13h00

SESSION 6: How to promote geothermal energy through dissemination of knowledge, education and training?

Auditorium

13h00 – 14h30 - Lunch break - Restaurant

14h30 – 16h00

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Sunday 12	
14h00 – 21h00	Reception hotel
Monday 13	
8h30 – 12h00	Transfer hôtel to BRGM and reception of registrants
10h00 – 12h00	Work package meetings
12h00 – 13h30	Restaurant and coffee break
13h30 – 15h40	Opening session - Auditorium
15h40 – 16h00	Coffee break
16h00 – 18h00	Session 1
18h15 – 23h00	Transfer BRGM to Orléans hotel Groslot and free time Orléans
23h00 – 23h30	Transfer Orléans to hôtel
Tuesday 14	
8h00 – 8h45	Transfer hôtel to BRGM
9h00 – 11h00	Session 2
11h00 – 11h30	Coffee break
11h30 – 13h00	Session 3
13h00 – 14h30	Restaurant and coffee break
14h30 – 15h15	Session 3
15h15 – 16h15	Session 4
16h15 – 16h45	Coffee break
16h45 – 18h30	Session 4
18h30 – 18h45	Transfer BRGM to hôtel
19h30 – 23h00	Conference dinner
Wednesday 15	
8h00 – 8h45	Transfer hôtel to BRGM
9h00 – 10h30	Session 5
10h30 – 10h45	Coffee break
10h45 – 13h00	Session 5 - Session 6
13h00 – 14h30	Lunch break
14h30 – 16h00	Work package meetings
16h00 – 18h00	Formal meeting of the steering committee
16h30 – 17h00	Transfer BRGM to Orléans

The **ENGINE** Launching Conference is co-sponsored by:



The **ENGINE** partners:



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ENGINE Launching Conference
Orléans - France
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Jointly organised by

BRGM

3, avenue Claude-Guillemin - B.P. 36009
45060 Orléans Cedex 2 - France
Tél. : +33 (0)2 38 64 34 34

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