

ENGINE - ENhanced Geothermal Innovative Network for Europe
Workshop 2: **Exploring high temperature reservoirs: new challenges for geothermal energy**
SIAF Campus, 1 - 4 April 2007, Volterra, Italy



Timetable Day 1

Sunday, 1 April 2007

20:30-22:30 Icebreaker, SIAF Campus

Timetable Day 2

Monday, 2 April 2007

08:00-10:00 Registration

10:00-10:30 Opening address:

Welcome

LEDRÚ Patrick

SESSION 1 SIGNATURES OF HIGH TEMPERATURE CONDITION

Convener: A. Manzella (IGG)

10:30-11:00

Deep-Seated unconventional geothermal resources in Tuscany

GIANELLI Giovanni

11:00-11:30

Break

11:30-12:30

Poster Introduction

Corrosion study in HDR geothermal wells. Experience from Soultz

MULLER Jiri

Towards the evaluation of the geothermal potential of Italy

MARINI Luigi

High-temperature geothermal deposits of Daghestan and prospects of their development

KOBZARENKO Dmitry

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The terrestrial heat-flow density database in the framework of geothermal potential studies	GOLA Gianluca
Application of oil exploration 3D seismic data for imaging HDR systems in west Lithuania	SLIAUPA Saulius
Continuous Measurement of Gases for Effective Geothermal Reservoir Management	STREIL Thomas
Petrophysical Signatures of the Liquid-Steam Phase Transition in Geothermal Reservoir Rocks	BRUHN David
Lithium isotopic signature of high temperature geothermal fluids in volcanic arc islands (Guadeloupe and Martinique, French West Indies): an efficient tool to determine the rock nature of the reservoirs and their location	SANJUAN Bernard
Clay mineral occurrences in volcanic and granitic geothermal contexts: signatures of high temperature fluid circulations in natural permeable fractures	GENTER Albert
High temperatures and Variscan structure of Western Poland	WRÓBLEWSKA Marta
3D electrical resistivity modelling of the crust structure at Travale high enthalpy geothermal field	MAYORGA Catalina
The deep reservoir of the Travale geothermal area: mineralogical, geochemical and resistivity data	GIOLITO Chiara
2-D inversion of a magnetotelluric profile in Travale geothermal field using invariant responses	MANZELLA Adele

12:30 – 13:30 Lunch Break (SIAF Cafeteria)

SESSION 1 (CONT.) SIGNATURES OF HIGH TEMPERATURE CONDITION

Convener: J. Van Wees (TNO), A. Genter (BRGM)

13:30-14:00	Thermal and rheologic signatures of high-enthalpy resources	RYBACH Ladislaus
14:00-14:30	P-T-X evolution of paleo-hydrothermal granite-related systems and active geothermal systems: data from fluid inclusion studies	CATHELINEAU Michel
14:30-15:00	Poster Introduction	

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Seismo-Acoustic Signatures Analysis of Temperature and Pressure Dependence of Porous Rocks	JAYA Makky
Preliminary results from fracturation analysis on an analogue granitic batholith and "direct broadcast" of the VSP acquisition at Soultz-sous-Forêts geothermal site	LE GARZIC Edouard
Geothermal potential and chemistry of geothermal fluids of volcanic and non-volcanic zones in Costa Rica	VARGAS SANABRIA Asdrúbal
Water- and gas-based geochemical prospecting of geothermal reservoirs in the Tarapacá and Antofagasta regions of northern Chile	TASSI Franco
Reservoir equilibrium temperatures at the Ahuachapán and Berlin geothermal fields (El Salvador) constrained by the organic gas species composition	MONTEGROSSI Giordano
Fluid circulation in the geothermal field of Tianjin (north-eastern China)	MONTEGROSSI Giordano
The geothermal potential of continental Yemen: new geochemical and isotopic insights from thermal water and gas discharges	TASSI Franco
Fluid – flow in the Boccheggiano-Montieri palaeogeothermal system: insights for the Larderello-Travale field	LIOTTA Domenico
Geothermal Power Potential of "Jermakhyur" Geothermal Site of Syunik Marz, Republic of Armenia	BABURYAN Garik

15:00-16:15

Poster Presentation

16:15-17:15

Discussion

17:30 – 19:30 Shuttle Buses to Volterra Downtown
Ask to organization for timetable

Steering Committee Meeting
Meeting Room Building B, ground floor (close to the Reception)

20:00 – 23:00 Gala Dinner at Etruria Restaurant



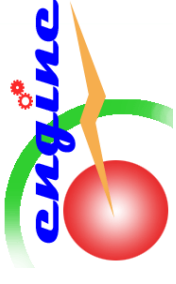
Timetable Day 3

Tuesday, 3 April 2007

SESSION 2 MODELLING AND RESERVOIR SIMULATION OF HIGH TEMPERATURE SYSTEMS

Conveners: E. Huenges (GFZ), T. Kohl (Geowatt)

08:30-09:00	Modeling the fluid dynamics of multicomponent compressible magma in sub-surface volcanic environment	PAPALE Paolo
09:00-09:30	Japanese EGS experience and modeling efforts – a review of Hijiori HDR project	TEZUKA Kazuhiko
09:30-10:00	Feasibility of using supercritical CO ₂ as heat transmission fluid in the EGS integrating the carbon storage constraints	AZAROUAL Mohamed
10:00-10:15	Poster Introduction	
	Modeling of short term stimulation and long term operation of EGS reservoirs	KOHL Thomas
	Hydro-thermal coupling in a rough fracture	NEUVILLE Amélie
	Effects of damage zone around fault planes on fluid and heat fluxes: first results	GERAUD Yves
10:15-11:30	Poster Presentation	
11:30-12:30	Discussion	
12:30 – 13:30	Lunch Break (SIAF Cafeteria)	



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SESSION 3 SUPERCRITICAL FLUIDS: A NEW FRONTIER FOR GEOTHERMAL

Convener: Fridleifsson Gudmundur Omar (ISOR)

13:30-14:00	The Physical And Chemical Nature Of Supercritical Fluids	FOURNIER Robert
14:00-14:30	Development of Deep Unconventional Geothermal Resources (DUGR's) in Iceland and their Potential Application Elsewhere in Europe	ELDERS Wilfred
14:30-14:35	Poster Introduction	
	The Iceland Deep Drilling Project (IDDP) – Status April 2007	FRIDLEIFSSON Gudmundur Omar
	Probing of high temperature geothermal reservoirs from electrical methods: HITI EC project and the IDDP	PEZARD Philippe

14:35-15:30 **Poster Presentation**

15:30-16:30 **Discussion**

16:30- 19:30 WP3 and WP6 Meetings

Bus departure to Pisa: 17:00 (Arrival at about 18:30)

Timetable Day 4

Wednesday, 4 April 2007

08:00-18:00

Visit of Larderello geothermal area

Departure from SIAF Campus 8:00

Visit to Direct Application examples, drilling site

Lunch offered at Enel cafeteria in Larderello 13:30-14:30

Visit of Valle Secolo Geothermal Power station

Return to Pisa 18:00