



EGW 2017 Workshop Program

5TH EUROPEAN GEOTHERMAL WORKSHOP, KARLSRUHE, 12-13 OCTOBER 2017

Start	Thursday 12 October 2017		Name
08:30	Registration + Coffee		
09:00	Welcome message		T. Kohl
09:15	Keynote	IDDP-2 – Drilling the DEEPEGS demonstration well at Reykjanes in Iceland	G. O. Friðleifsson
09:40	Oral	Preliminary results of the electro-magnetic monitoring during the RN-15/IDDP-2 well stimulation (Iceland)	N. Haaf
09:55	Oral	Overview over the Seismic Monitoring and the Seismicity Induced during Drilling of the Well RN-15/IDDP-2 at Reykjanes, Iceland	R. Köpke
10:10	Oral	Initiation of discontinuities by thermal and hydraulic stimulation in the near-well area in well RN-15 (Reykjanes, DEEPEGS): A numerical investigation	A. Loschetter
10:25	Coffee-break		
10:55	Keynote	Ambient seismic noise as a tool for geothermal exploration: Case study of the Soultz-sous-Forêts and Rittershoffen sites, France	M. Lehujeur
11:20	Oral	Geothermal Exploration Practices from the South of Menderes Graben “A Case Study”	B. Denizalp
11:35	Oral	Exploration in Villarrica geothermal system from 3D MT modelling	M. Pavez
11:50	Oral	Underground Resistivity at Rittershoffen Geothermal Reservoir After Water Reinjection	Y. Abdelfettah
12:05	Oral	Small effective stress drop of hydraulic induced seismicity points to aseismic deformation	T. Fischer
12:20	Lunch // Poster Session 1		
14:00	Keynote	Geological Inference and the Link to Geothermal Process Simulation	F. Wellmann
14:25	Oral	The Effect of Thermal Convection within an Intra-Layer Fault on Energy Production from Geothermal Reservoirs - A Sensitivity Analysis	N. G. Doonechaly
14:40	Oral	Physical simulations using unstructured meshes with an integrative tool linking RINGMesh and CSMP++	M. Raguanel
14:55	Oral	Geothermal favourability mapping and resource assessment in a sedimentary basin – a case study for British Columbia, Canada	K. Palmer-Wilson
15:10	Coffee-break		
15:40	Keynote	Isotopic and chemical methods – Essential tools for the characterisation of deep hydrothermal systems	F. Eichinger
16:05	Oral	Single Well Tracer Modeling – A Case Study for the Horstberg Z1 Site	W. Rùhaak
16:20	Oral	Improving hydrogeochemical modelling results by validation and extension of thermodynamic databases	T. Hörbrand
16:35	Oral	Characterization Of An Exhumed High Temperature Paleo-Geothermal Reservoir By Clay Minerals and Secondary Phases Identifications In Terre-de-Haut Island (Les Saintes Archipelago, Guadeloupe)	G. Beauchamps
16:50	Oral	Geological interpretation in the fractured basement of the GRT-2 production well (Rittershoffen, France)	C. Glaas
19:00	Workshop dinner		

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Poster Session 1	Name
Investigating the influence of fault zone permeability on production rates for the deep geothermal exploration site Geretsried by numerical simulation	F. Konrad
New results on the gravity monitoring of Soultz-sous-Forêts and Rittershoffen (Alsace, France) geothermal reservoirs	N. Portier
In situ characterization of groundwater flow and heat transport in stimulated fractured network using Distributed Temperature Sensing	M. Klepikova
Simulation of induced seismicity associated with fluid injection in single fractures: influence on the fracture slip regime	G. Piris
Investigation of persistent multiplets at the EGS reservoir of Soultz-Sous-Forêts, France	L. Cauchie
Contribution of the Seiscomp3 scanloc module to the monitoring of micro-seismicity induced by deep geothermal projects	R. Pestourie
Applying both analytical and numerical models to quantify the sustainable heat extraction rate through Deep Borehole Heat Exchangers (DBHE)	H. Shao
Temporal Relationship Between Injection Rates and Induced Seismicity	J. Vlcek
The CDGP, data center for deep geothermal energy in Alsace	A. Fremand
Outcrop analogue study to determine petrophysical properties of the Los Humeros and Acoculco geothermal systems, Mexico	L. Weydt
Soultz-sous-Forêts geothermal site: Geochemical monitoring and sustainability evolution of well GPK4	J. Mouchot
Thermo-Triax: Measuring Poroelasticity of Sandstone	S. Weinert
Transferability of petrophysical and geophysical data between neighboring boreholes – A case study from the North German Basin	M. Hintze
Acid Stimulation of Deep Reservoir Rocks: A New Experimental Setup	J. I. Farquharson
Supercritical Drilling – Casing Design Review, Methodology and Case Studies	M. Kruszewski
Mechanical Strain Measurements From Coda Wave Interferometry	J. Azzola
Results of the fluid monitoring of the Bruchsal Geothermal Power Plant	K. Herr
Modeling of Dissolution-induced Permeability Evolution of A Granite Fracture under Crustal Conditions	R. Lu
Fracture patterns of Middle Triassic Muschelkalk Mega-Kink Bands	Y. Manß

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Start	Friday 13 October 2017		Name
08:00	Coffee		
08:30	Introduction of the day		
08:45	Oral	Matrix permeability of the Permo-Triassic sandstones at the Soultz-sous-Forêts geothermal site (France)	M. Heap
09:00	Oral	Fractures and Reservoir Permeability: The case of the Permo-Triassic Sandstones at the Soultz-sous-Forêts Geothermal Site (France)	A. Kushnir
09:15	Oral	Evolution of transport properties in clay-bearing sandstone undergoing temperature cycles, fluid exchanges, and fluid-mineral interactions	C. Cheng
09:30	Oral	The Influence of Temperature on the Seismic Velocity of Granite	L. Griffiths
09:45	Coffee-break		
10:15	Keynote	Model concepts for coupled geo-thermal flow and transport processes in subsurface systems	R. Helmig
10:40	Oral	Phase-field study of pore space cementation in polycrystalline quartz sandstone	N. Prajapati
10:55	Oral	Recent advances in simulating dynamic processes in fractures	T. Kling
11:10	Oral	A numerical investigation of combined heat storage and extraction in deep geothermal reservoirs	M. Major
11:25	Panel Discussion with French and German Industry and Legal authorities		T. Kohl, J. Schmittbuhl
12:15	Lunch // Poster Session 2		
13:50	Keynote	Geomechanics and reservoir modelling of geothermal fields	P. Fokker
14:15	Oral	Performance-Driven Monitoring and Early Warning System for Geothermal Platforms	K. Megalooikonomou
14:30	Oral	THM large scale modeling of the hydro-thermal circulation in the deep geothermal reservoir of Soultz-sous-Forêts (France)	B. Vallier
14:45	Oral	Investigating Convective Upwellings in Geothermal Settings: A Soultz-sous-Forêts Case Study	R. Tung
15:00	Coffee-break		
15:30	Oral	Modeling stress heterogeneity within the Bavarian Molasse Basin	R. Seithel
15:45	Oral	Town Geothermal Energy and Country Geothermal Energy: making sense of deep geothermal energy in Strasbourg and in the northern Alsace	P. Chavot
16:00	Poster prize winner and Conclusion		

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Poster Session 2	Name
Numerical simulation and evaluation of triaxial tests of reservoir rocks of the URG	R. Egert
Mineralogical characterization of scalings formed in geothermal sites in the URG before and after the application of a sulfate inhibitor	F. Heberling
Possibilities of Vp/Vs monitoring	M. Bachura
Investigating Darcy Convection in Geothermal Systems using Stream Function Formulations	P. Huang
A maximum expected magnitude for induced seismicity based on an energy approach	O. Lengline
Modeling the acid stimulation in the geothermal system of Soultz-sous-Forêt	V. Ngo
Geophysical characterization of the transition between sediment and crystalline rocks at an outcrop in the Vosges, France	J.-F. Girard
Cross-hole radar tomography workflow for reservoir analog characterization	J.-R. Dujardin
The deep groundwater in the Malm aquifer (Upper Jura) of the Bavarian Molasse Basin: Usage of environmental isotopes and hydrochemical analysis for a better understanding of deep geothermal reservoirs	F. Heine
Experimental investigation of the hydrothermal alteration of granite and monzonite from the Black Forest, Germany	F. Barth
Linking Siliciclastic Sedimentology to Geothermal Reservoir Characterization with a Relational Database Application	A. Linsel
Phase-field study of calcite cementation in saline limestones	N. Prajapati
The recent densification of the seismic network in Alsace: A regional monitoring dedicated to the recording of both natural and man-induced micro-seismicity	H. Wodling
Concept of gravimetric exploration of Enhanced and Super Hot Geothermal Systems in Acozulco and Los Humeros (Mexico)	Y. Qin
Geochemical Evaluation of Tarabalo Thermal Spring Odisha, India	A. N. Das
Using High Accurate Gravity and 3D Geological Modeling in Geothermal Exploration in Northern Alsace, France	Y. Abdelfettah
Weaker when wet: The influence of water saturation on the rock-mass strength of the Permo-Triassic sandstones at the Soultz-sous-Forêts geothermal site (France)	M. Heap
Deep Geothermal Resources of Alberta's Section Western Canadian Sedimentary Basin	J. Banks
A method for estimating rock mass strength and elastic modulus of a geothermal reservoir using borehole data: Soultz-sous-Forêts case study	M. Heap
Experimental insights into geothermal resource exploitation in the ductile crust	M. Heap
Estimation of the formation temperature around the deep icelandic geothermal well RN-15/IDDP-2 until 3.5km - An application of the WellboreKIT simulator	F. Limberger