

EUROPEAN GEOTHERMAL CONGRESS 2016

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K3	Spitler, J.D.	<u>Latest Developments and Trends in Ground-Source Heat Pump Technology</u>
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T2	Sanner, B.	<u>Shallow Geothermal Energy – History, Development, Current Status, and Future Prospects</u>
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T-O-295	Stamnes, Ø; Kolberg, S; Hjelstuen, M; Røed, M; Knudsen, S., Vedum, J., Halladay, N.	<u>Development of a Novel Logging Tool for 450°C Geothermal Wells</u>
T-O-8	Tountov R.	<u>Geothermal Heating and cooling Center for the Palace of Justice. Kosovo</u>
T-O-369	Urchueguia, J., Dumas, P., Sanner, B.	<u>European Geothermal technology Roadmap: status and implementation</u>
T-O-252	Verhoeven R., Eijdens H.,	<u>Update (Geo-) Thermal Smart Grid Mijwater Heerlen</u>
T-O-42	Rauch, A., Weimann, T.	<u>Pressure Retention Valve for Subsurface Applications</u>

3.F. Technology and Best practice – Power (T-PO)

T-PO-185	Bonafin, J.	<u>The Velika Ciglana Geothermal Project - 15 MW Single Turbine Binary Plant</u>
T-PO-148	Heberle, F., Eller, T., Brüggemann, D.	<u>Thermo-economic evaluation of one- and double-stage ORC for geothermal combined heat and power production</u>
T-PO-81	Alimonti C., Soldo E., Berardi D., Bocchetti D.	<u>A comparison between energy conversion systems for a power plant in campi flegrei geothermal district based on a wellbore heat exchanger</u>
T-PO-82	Alimonti C., Soldo E., Berardi D., Bocchetti D.	<u>A matrix method to select the more suitable extraction technology for the Campi Flegrei geothermal area (Italy)</u>
T-PO-79	Alimonti C., Soldo E., Moroni E.	<u>Evaluation of geothermal energy production using a wellbore heat exchanger in the reservoirs of campi flegrei and ischia island</u>
T-PO-175	Dal Porto F., Fedeli M., Pasqui G.	<u>Geothermal Power Plant Production Boosting by Biomass Combustion: Cornia 2 Case Study</u>
T-PO-94	von Düring, B., Campana, F., Ueing, L.	<u>An innovative concept for geothermal energy: the Clozed Loop technology aiming for zero emissions</u>
T-PO-67	Dermata, T.K., Schina, L., Gkoutas, A., Andritsos, N.	<u>Investigation of a Natural Gas / Low-Enthalpy Geothermal Energy Hybrid System</u>
T-PO-307	Franco, A.	<u>Recent trends in research and application of ORC plants for geothermal energy use</u>

T-PO-87	G.O. Fridleifsson et al.	<u>Deployment of deep enhanced geothermal systems for sustainable energy business</u>
T-PO-63	Hamm	<u>New well architectures assessment for geothermal exploitation of the Triassic sandstones in Paris basin</u>
T-PO-324	Hogarth, R., Baisch, S., Holl, H-G., Jeffrey, R., Jung, R.	<u>Jolokia EGS - the limits of hydraulic stimulation</u>
T-PO-333	Kaldal, G.S., Thorbjornsson, I.	<u>Thermal expansion of casings in geothermal wells and possible mitigation of resultant axial strain</u>
T-PO-251	Muller, L.	<u>Scale Prediction and Inhibitor Selection for Turkish Geothermal Plants</u>
T-PO-158	Peters, E., Veldkamp, J.G., Pluymaekers, M.P.D., Wilschut, F.	<u>Radial jet drilling for Dutch geothermal applications</u>
T-PO-322	Stapleton, M., Weres, O., Gulgor, A., Helvacı, E.	<u>Brine Chemistry, Scale Inhibitors and Dosing Systems Used at the Germencik Geothermal Field, Turkey</u>
T-PO-290	Vaccaro, M., Batini, F., Stolzuoli, M., Bianchi, S., Pizzoli, R., Lisi, S.	<u>Geothermal ORC plant case study in Italy: CastelnuovoPilot Project – Design and technical features</u>
T-PO-59	Villarroel C., D.	<u>Geothermal Development in Europe considering EGS technologies and The Deep Drilling Project</u>

3.G. Technology and Best practice – UTES (T-UTES)

T-UTES-237	Badenes, B., Mateo Pla, M. A., P, Magraner, T., Lemus, L.,Urchueguía, J. F.	<u>Experimental facility to perform Thermal Response Tests and study the thermal behaviour of the ground</u>
T-UTES-85	Bär, K.	<u>Seasonal high temperature heat storage with medium deep borehole heat exchangers – a conceptual case study</u>
T-UTES-91	Bloemendal, M.	<u>After the boom; evaluation of dutch ates-systems for energy efficiency</u>
T-UTES-129	Cazorla-Marín, A., Ruiz-Calvo, F., Montero, Á., Martos, J., Montagud, C., Corberán, J. M.	<u>Estimating Ground Thermal Properties of a Borehole Heat Exchanger using the B2G Dynamic Model</u>
T-UTES-127	Cazorla-Marín, A., Ruiz-Calvo, F., Witte, H., Montagud, C., Corberán, J. M.	<u>An Innovative Co-Axial Spiral Borehole Heat Exchanger Dynamic Model</u>
T-UTES-135	Homuth, S., Hornich, W., Bär, K.	<u>Down-the-hole water powered hammer drilling for medium deep geothermal energy systems</u>

T-UTES-41	Hahn, F., Bussmann, G., Ignacy, R., Bracke, R.	<u>HT-MTES: Seasonal heat storage in abandoned coal mines</u>
T-UTES-140	Kujbus, A.	<u>Underground Thermal Energy Storage Opportunities in the Pannonian Basin</u>
T-UTES-144	Tordrup, K. W., Poulsen, S. E., Bjørn, H.	<u>Calibration of a finite element model of a borehole thermal energy storage in FEFLOW: model and numerical considerations</u>
T-UTES-102	Rostampour, V., Bloemendal, M., Jaxa-Rozen, M., Keviczky, T.	<u>A Control-Oriented Model For Combined Building Climate Comfort and Aquifer Thermal Energy Storage System</u>
T-UTES-231	Veldkamp, H., Pluymaekers M., Vandeweyer, V., van Wees, J-D.	<u>High Temperature Storage in the Dutch subsurface – critical factors and economic feasibility</u>

4. Science

4.A. Science – Geochemistry (S-GC)		
S-GC-349	Akin, T., Kargi, H., Guney, A.	<u>Geochemical calculation workflow to estimate fluid chemistry of water dominated geothermal reservoir</u>
S-GC-111	Boch, R., Szanyi, J., Leis, A., Mindszenty, A., Deák, J., Kluge, T., Hippler, D., Demény, A., Dietzel, M.	<u>Geothermal Carbonate Scaling: Forensic Studies Applying High-Resolution Geochemical Methods</u>
S-GC-137	Degering, D., Dietrich, N., Krüger, F., Scheiber, J., Wolfgramm, M., Köhler, M.	<u>Radium isotope concentrations in deep geothermal fluids as finger prints of the aquifer rocks</u>
S-GC-161	Nitschke, F., Held, S., Villalon, I., Mundhenk, N., Kohl, T., Neumann, T.	<u>Geochemical Reservoir Exploration and Temperature Determination at the Mt. Villarrica Geothermal System, Chile.</u>
S-GC-192	Kling, T.	<u>Quartz-driven fracture healing and its impact on fluid flow</u>
S-GC-359	Kmiecik, E., Korzec, K., Mika, A.	<u>Metasilicic acid in thermal water from Banska PGP-1 well, Podhale</u>
S-GC-44	Koc, K., Simsek, S., Yilmaz T., Elif	<u>Hydrogeochemical Investigation of Hot and Mineral Waters of Karaada (Bodrum)</u>
S-GC-345	Kong, X-Z., Leal, A.M.M., Saar, M. O.	<u>Implications of hydrothermal flow-through experiments on deep geothermal energy utilization</u>
S-GC-98	Kraml, M., Jodocy, M., Reinecker, J., Leible, D., Freundt, F., Al Najem, S., Schmidt, G., Aeschbach, W., Isenbeck-Schroeter, M.	<u>TRACE: Detection of Permeable Deep-Reaching Fault Zone Sections in the Upper Rhine Graben, Germany, During Low-Budget Isotope-Geochemical Surface Exploration</u>
S-GC-334	Kong, X-Z., Leal, A.M.M., Saar, M. O.	<u>Fluid-rock interactions in geothermal processes: their importance and their computational modeling</u>
S-GC-173	Lucas, Y.	<u>A coupled thermo-hydro-geochemical modelling approach of the evolution of mineralogy in the EGS geothermal system at Soultz-sous-Forêts (France)</u>
S-GC-20	Ozulukale, S., Simsek, S.	<u>Hydrogeochemical and Environmental Isotopic Survey in Saraykent (Yozgat) Geothermal Field, Central Anatolia, Turkey</u>

S-GC-156	Pollet-Villard, M., Daval D.	<u>Kinetic feedback effects induced by dissolution/precipitation processes in a geothermal context</u>
S-GC-238	Schmidt, R. B., Bucher, K., Stober, I.	<u>Alteration products of reservoir rocks from the Upper Rhine Graben under geothermal conditions</u>
S-GC-283	Wasch, L.	<u>Scaling potential during (CO₂) degassing in geothermal installations</u>
S-GC-45	Yilmaz Turali, E., Simsek, S., Koc, K.	<u>Hydrogeochemical Investigation of Yerköy (Yozgat-Turkey) Geothermal Waters</u>
S-GC-357	Nusiaputra, Y.	<u>Modeling the properties of two-phase, multicomponent geothermal fluids for use in wellbore simulation</u>
S-GC-11	Cansu, Y	<u>Isotopic Evaluation of Savcili-Buyukoba (Kirsehir-Kaman) Geothermal Area</u>

4.B. Science – Geology (S-GE)

S-GE-318	Aichholzer, C., Düringer, P., Genter, A., Orciani, S.	<u>New stratigraphic interpretation of the Sultz-sous-Forêts geothermal wells based on Rittershoffen (Upper Rhine Graben, France)</u>
S-GE-205	Alçiçek, H., Bülbül, A., Alçiçek, M. C., Yavuzer, I.	<u>Hydrogeochemistry of the thermal waters from the Pamukkale and Karahayıt Geothermal Fields (Denizli Basin, Southwestern Anatolia, Turkey)</u>
S-GE-118	Auxietre, J-L., Bellanger, M., Auxietre, M., Ars, J-M.	<u>Exploration for EGS fields: innovative approach in deep geothermal contexts and R&D strategy</u>
S-GE-415	Beauchamps, G.	<u>Hydrothermal alteration: marker of paleo-hydrothermal fluid circulation. Towards a better understanding of Vieux-Habitants geothermal area (Basse-Terre, Guadeloupe).</u>
S-GE-133	Auxietre, J-L., Bellanger, M., Ars J-M., Hautot, S., Tarits, P.	<u>The Key role of first-order geological paradigm in deep geothermal exploration.</u>
S-GE-372	Bonté, D., Busby, J., Beamish, D., van Wees, J-D.	<u>Thermal structure of the Cornwall Batholith</u>

S-GE-371	Bonté, D., Limberger, J., Lispey, L., Cloetingh, S., van Wees, J-D.	<u>Data assimilation for the investigation for temperature variations in the Paris Basin and the Netherlands</u>
S-GE-117	Bianco, C., Brogi, A., Dini, A., Friðleifsson, G. Ó., Helgadóttir, H. M., Liotta, D., Montegrossi, G., Rimondi, V., Ruggieri, G., Zucchi, M., Ciacci, M.	<u>Understanding of magmatic geothermal systems from studies of exhumed systems in continental and oceanic settings</u>
S-GE-346	Darajat, F. I., Maris, E. E. P., Akib, A. A., Guswinanda, H., Saepuloh, A.	<u>Analyses of Landsat 8 Imageries for Preliminary Assessment to Determine Geothermal Potential Area under Torrid Zones</u>
S-GE-211	Dezayes, C., Baltassat, J-M., Famin, V., Bes de Berc, S.	<u>Potential interest areas for the development of geothermal energy in La Reunion Island</u>
S-GE-302	Eggertsson, G., Lavallée, Y., Kendrick, J., Lamur, A., Markusson, S.	<u>Enhancing permeability by multiple fractures in the Krafla geothermal reservoir, Iceland</u>
S-GE-352	Giordano, G.	<u>Multidisciplinary approach for the exploration of remote geothermal fields: The Tocomar Geothermal System case study (Puna plateau, Argentina).</u>
S-GE-270	Grimmer, J. C., Druempel, K., Stober, I.	<u>Origin of lithium in deep brines of SW-Germany – first results</u>
S-GE-35	Hajto, M.	<u>A brief glossary of Polish and the UNFC-2009 classifications and nomenclature of geothermal resources assessment</u>
S-GE-76	Hehn, R., Genter, A., Vidal, J., Baujard, C.,	<u>Stress field rotation in the EGS well GRT-1</u>
S-GE-389	Hjuler, M. L., Olivarius, M., Kristensen, L., Boldreel, L. O., Mathiesen, A., Nielsen, C. M., Nielsen, L. S.	<u>Detailed assessment of geothermal potential by integration of a wide range of geological data: Preliminary results of a case study from a Lower Triassic low-enthalpy reservoir in the Tønder area in southern Denmark</u>
S-GE-362	Nunes, J. C., Carvalho, J. M., do Rosário Carvalho, M.	<u>New geologic insights for the Pico Alto Geothermal Field (Terceira Island, Azores, Portugal) as a key tool for its conceptual modelling</u>
S-GE-203	Limberger, J., van Wees, J-D., Pluymaekers, M., Tesauro, M., Cloetingh, S.	<u>Assimilation of subsurface temperature data to improve the thermal model of the European lithosphere</u>
S-GE-257	Bertrand L.	<u>A model of permeability and porosity in the different type of basement of the Upper</u>

		<u>Rhine Graben inferred from outcropping analogues rocks.</u>
S-GE-155	Lipsev, L., Van Wees, J-D., Pluymaekers, M., Cloetingh, S.	<u>Numerical modelling of thermal convection related to fracture permeability in Dinantian carbonate platform, Luttelgeest, the Netherlands</u>
S-GE-33	Meller, C., Sahara, D. P., Kohl, T.	<u>Implication of petrography and structure of a rock mass for geomechanical processes associated with EGS projects</u>
S-GE-228	Navelot, V., Géraud, Y., Diraison, M.	<u>Physical properties of fresh or hydrothermalized volcanic rocks from the west coast of Basse-Terre and Terre-de-Haut (Guadeloupe archipelago)</u>
S-GE-240	Niederau, J., Büsing, H., Clauser, C., Jusri, T., Dini, I., Bertani, R.	<u>Impact of an uncertain structural model on geothermal reservoir simulations</u>
S-GE-58	Papachristou, M., Fytikas, M., Andritsos, N., Nikolaidou, E., Kolios, P.	<u>New thermometric data from shallow aquifers in Santorini: possibilities for geothermal exploitation</u>
S-GE-236	Siratovich, P., Villeneuve, M., Heap, M., Kennedy, B.	<u>Deformation, Strength, and Failure Mode of Deep Geothermal Reservoir Rocks</u>
S-GE-176	Rasmussen, P.	<u>3D modelling of borehole heat exchangers at hydrogeological conditions typical of the north European lowlands, sensitivity studies from Denmark</u>
S-GE-119	Prieto, A. M.	<u>Rock typing in geothermal reservoirs: application of textural descriptors</u>
S-GE-311	Rusillon, E., Clerc, N., Brentini, M., Moscariello, A.	<u>Rock typing, structural characterization and stratigraphy harmonization in support of geothermal exploration in the Greater Geneva Basin (Switzerland)</u>
S-GE-221	Seithel, R.	<u>Slip Tendency Analysis & Frictional Strength of Reservoir Rocks in south Germany</u>
S-GE-165	Sowizdzal, A.	<u>The most prospective areas for geothermal energy utilization for heating and power generation in Poland</u>
S-GE-108	Stober, I.	<u>Hydraulic and hydrochemical properties of the deep carbonate aquifers in SW-Germany</u>
S-GE-243	Ter Heege, J.	<u>Fault permeability models for geothermal doublet designs</u>
S-GE-65	Vidal, J., Genter, A., Chopin, F., Dalmais, E.	<u>Natural fractures and permeability at the geothermal site Rittershoffen, France</u>

S-GE-367	Ziabakhshganji, Z., Donselaar, M. E., Bruhn, D. F., Hamid, M. N.	<u>Thermally-enhanced oil recovery from stranded fields: Synergy potential for geothermal and oil exploitation</u>
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4.C. Science – Geophysics (S-GP)

S-GP-149	Bertermann, D.,	<u>GeoSurf - The development of a new measuring tool for an efficient planning of shallow geothermal systems</u>
S-GP-154	Heap, M., Baud, P., Kushnir, A., Reuschlé, T., Dauny, F., Farquharson, J., Griffiths, L., Schmittbuhl, J.	<u>The new HPHT triaxial apparatus at IPG Strasbourg (France)</u>
S-GP-146	Heap, M., Siratovich, P., Kennedy, B.	<u>Permeability of tensile fractures in andesites</u>
S-GP-281	Jousset, P.	<u>Seismic Tomography in Reykjanes, SW Iceland</u>
S-GP-368	Piasentin, A.	<u>The triple porosity model as a microsystem constraint to the joint petrophysical and seismic reservoir characterization of carbonate formations</u>
S-GP-97	Abdelfettah, Y., Calvo, M., Hinderer, J., Dalmais, E., Maurer, V.	<u>Using gravity in geothermal exploration: the case study of Wissembourg area, northern Alsace (France)</u>
S-GP-100	Abdelfettah, Y., Sailhac, P., Girard, J-F., Dalmais, E., Maurer, V.	<u>Magnetotelluric profile crossing the GRT1-2 geothermal doublet of the Rittershoffen EGS project, northern Alsace</u>
S-GP-101	Abdelfettah, Y., Sailhac, P., Schill, E., Larnier, H., Matthey, P-D.	<u>Continuous and time-lapse geothermal monitoring at Rittershoffen EGS project, northern Alsace, using magnetotellurics</u>
S-GP-347	Armadillo, E., Rizzello, D., Stimac, J., Zemedkun, M., Kebede, S.	<u>The ARGeo geophysical model of the Tendaho geothermal field, Ethiopia</u>
S-GP-206	Ars, J-M., Tarits, P., Hautot, S., Bellanger, M., Maïa, M., Coutant, O., Auxietre, J-L.	<u>Geophysical joint inversion applied to deep geothermal exploration</u>
S-GP-303	Balling, N., Poulsen, S. E., Fuchs, S., Mathiesen, A., Bording, T. S., Nielsen, S. B., Nielsen, L. H.	<u>Development of a numerical 3D geothermal model for Denmark</u>

S-GP-39	Baud, P., Zhu, W., Farquharson, J., Wong, T-F., Heap, M., Vinciguerra, S.	<u>Dilatancy, failure, and fluid flow in basalt: Implications for geothermal reservoirs</u>
S-GP-381	Blanck, H.	<u>Analysis of seismological data on Reykjanes peninsula, Iceland</u>
S-GP-74	Carpentier, S., Steeghs, P., Boxem, T.	<u>Seismic reprocessing and attributes for geothermal exploration: a case study in Friesland, Netherlands</u>
S-GP-413	Coppo, N., Darnet, M., Harcouët-Menou, V., Wawrzyniak, P., Manzella, A., Bretaudeau, F., Romano, G., Lagrou, D., Girard, J-F.	<u>Characterization of Deep Geothermal Energy Resources in Low enthalpy sedimentary basins in Belgium using Electro-Magnetic Methods – CSEM and MT results</u>
S-GP-167	Farina, B., Poletto, F., Carcione, J. M.	<u>Seismic wave simulation in poro-viscoelastic hot rocks</u>
S-GP-131	Ferhat, G.	<u>Surface deformation monitoring at geothermal exploitation: a review and case study of Soultz-sous-Forêts and Rittershoffen sites in the Rhine Graben, France</u>
S-GP-17	Gaucher, E., Gesret, A., Noble, M., Kohl, T.	<u>New Bayesian formulation to integrate body-wave polarization in non-linear earthquake location</u>
S-GP-107	Girard, J-F.	<u>Passive electrical monitoring of a geothermal doublet: Rittershoffen EGS project, northern Alsace</u>
S-GP-106	Griffiths, L., Heap, M., Baud, P., Schmittbuhl, J.	<u>A new setup for studying thermal microcracking through acoustic emission monitoring</u>
S-GP-89	Griffiths, L., Heap, M., Wang, F., Daval, D., Gilg, H. A., Baud, P., Genter, A., Schmittbuhl, J.	<u>Barite precipitation: consequences on fracture permeability and injectivity at the geothermal sites of the Upper Rhine Graben</u>
S-GP-64	Heimlich, C.	<u>Geodetic analysis of surface deformation at the power plant of Landau (Germany) related to the 2013-2014 event</u>
S-GP-30	Hinderer, J.	<u>Hybrid gravity monitoring of a geothermal reservoir</u>
S-GP-71	Jupe, A., Francis, D., Gehrman, M.	<u>Probabilistic approaches in EGS seismic hazard assessment</u>
S-GP-265	Ramirez Loaiza, K., Yépez, S., Pasquali, R., Rath, V., Muller, M.	<u>Integrated interpretation and modelling of Tellus Aeromagnetic, Gravity, Radiometric and Multispectral Analysis of the Satellite Imagery datasets for the exploration and</u>

		<u>identification of deep geothermal target areas in the Midlands Valley Terrane</u>
S-GP-258	Kinnaert, X.	<u>Modelling seismic event location errors at the reservoir scale: application to the geothermal site of Soultz-sous-Forêts (Alsace, France)</u>
S-GP-88	Kinnaert, X., Gaucher, E., Kohl, T., Achauer, U.	<u>Modelling focal mechanism errors of seismicity induced at Rittershoffen geothermal field (Alsace, France)</u>
S-GP-380	Kittilä, A., Deuber, C., Mikutis, G., Evans, K., Puddu, M., Grass, R. N., Stark, W. J., Saar, M. O.	<u>Comparison of novel synthetic DNA nano-colloid tracer and classic solute tracer behaviour</u>
S-GP-18	Köpke, R., Gaucher, E., Meixner, J., Kohl, T.	<u>A method to interpret induced seismicity clouds as a fracture network</u>
S-GP-208	Kristjansdottir, S., Gudmundsson, O., Agustsson, K., Tryggvason, A., Lund, B., Fehler, M.	<u>Induced Seismicity during ReInjection of Wastewater in Hellisheidi Geothermal Field, Southwest Iceland</u>
S-GP-69	Labeau, Y., Jean-Louis, C.C.	<u>Numerical model as a decision-making tool for drills in the low enthalpy geothermal context of Martinique</u>
S-GP-315	Le Chenadec A., Lehujeur M., Schmittbuhl J., Vergne, J.	<u>Monitoring deep geothermal reservoirs with ambient seismic noise: a case study at Rittershoffen, France</u>
S-GP-195	Le Chenadec A., Lehujeur M., Schmittbuhl J. Vergne, J.	<u>Ambient seismic noise tomography using the dense array "EstOf" for deep geothermal exploration, Alsace, France</u>
S-GP-90	Lengliné, O.	<u>Seismicity related to the hydraulic stimulation of GRT1, Rittershoffen, Alsace, France</u>
S-GP-50	Maurer, V., Grunberg, M., Cuenot, N., Richard, A.	<u>Towards calibrating an automatic detection system to monitor micro-seismic activity induced by geothermal projects in the Upper Rhine Graben</u>
S-GP-51	Maurer, V., Grunberg, M., Richard, A., Doubre, C., Baujard, C., Lehujeur, M.	<u>On-going seismic monitoring of the Rittershoffen EGS project (Alsace, France)</u>
S-GP-52	Maurer, V., Perrinel, N., Dalmais, E., Richard, A., Plévy, L., Genter, A.	<u>Towards a 3D velocity model deduced from 2D seismic processing and interpretation in Northern Alsace (France)</u>
S-GP-48	Maurer, V., Vergne, J., Richard, A., Doubre, C., Grunberg, M., Baujard, C., Wodling, H..	<u>Towards the installation of a micro-seismic and a geodetic monitoring network for a geothermal project in urban context: the example of Illkirch-Graffenstaden (Alsace, France)</u>

S-GP-261	Møller, I., Balling, N., Rasmussen, P., Ditlefsen, C.,	<u>Regional shallow heat flow in Denmark from borehole temperatures and thermal conductivities of main lithologies</u>
S-GP-233	Prol-Ledesma, R.M.	<u>Integration of heat flow measurements and estimations in the construction of Mexico's heat flow map</u>
S-GP-141	Reinsch, T., Jousset, P., Henningses, J., Blanck, H.,	<u>Distributed Acoustic Sensing Technology in Magmatic Geothermal Areas – First Results from a Survey in Iceland</u>
S-GP-130	Richard, A., Maurer, V., Edel, J-B., Genter, A., Baujard, C., Dalmais, E.,	<u>Towards targeting geothermal reservoir: exploration program for a new EGS project in urban context in Alsace</u>
S-GP-351	Rizzello, D., Armadillo, E., Verdoya, M., Pasqua, C., Kebede, S., Mengiste, A., Abera, N.,	<u>Integrated geophysical imaging of the Alalobeda geothermal field (Ethiopia)</u>
S-GP-267	Rybach, L.	<u>Influence factors in the depth domain of borehole heat exchangers - global warming and urban heating</u>
S-GP-363	Sahara, D., Kohl, T.	<u>Inferring stress heterogeneities in fractured crystalline reservoir from an analysis of borehole breakout</u>
S-GP-364	Sahara, D., Kohl, T.	<u>Characterization of the geomechanical properties of deep EGS reservoir rock from borehole and hydraulic data</u>
S-GP-99	Sailhac, P.,	<u>Modelling the sensitivity of magnetotelluric monitoring data to geothermal fluids at depth in Northern Alsace</u>
S-GP-377	Samrock, F., Shah, N., Saar, M. O.	<u>Magnetotelluric Investigation of the Northern Swiss Heat Flow Anomaly</u>
S-GP-260	Santilano, A., Manzella, A., Rizzo, E., Giampaolo, V., Capozzoli, L., Godio, A.,	<u>Imaging the deep structures of the Larderello geothermal field (Italy) by electrical resistivity measurements: the IMAGE experiment</u>
S-GP-330	Schmittbuhl, J.,	<u>b-value variations and fracture pinning</u>
S-GP-317	Tezel, T., Foulger, G., Julian, B.	<u>Relative Microearthquake Locations at the Geysers</u>
S-GP-159	Ucar, E., Berre, I., Keilegavlen, E.,	<u>Modelling of the Shear Dilation Based Hydraulic Stimulation in Enhanced Geothermal Systems Considering Fractures in Different Scales</u>

S-GP-292	Vallier B., Magnenet V., Fond C., Schmittbuhl J.	<u>Two and three dimensional THM modelling of the Soultz-sous-Forêts geothermal reservoir: a comparison</u>
S-GP-239	Verdel, A., Wedemeijer, H., Paap, B., Vandeweyer, V., Weemstra, C., Jousset, P., Franke, S., Blanck, H., Ágústsson, K., Páll Hersir, G.	<u>Reykjanes ambient noise reflection interferometry</u>
S-GP-207	Weemstra, C.	<u>Time-lapse seismic imaging of the Reykjanes geothermal reservoir</u>

4.D. Science – Other (S-O)

S-O-23	Toth, A. N.,	<u>A New Approach to Geothermal Education</u>
S-O-13	Bazargan, M., Gudmundsson, A., Meredith, P., Kenyon, I.	<u>Developing Geothermal Energy from Hydrothermal and EGS Sources while Minimizing Risks</u>
S-O-62	Blaisonneau	<u>A simplified operational strategy combining well architecture and hydraulic stimulation for EGS</u>
S-O-163	Burté, L., Cotiche Baranger, C., Aquilina, L., Le Borgne, T., Gerard, M-F.	<u>Clogging of shallow geothermal doublets: hydrologic, geochemical and microbiological observations in a pilot site</u>
S-O-365	Gáspár, E.	<u>Hydrodynamic and heat transport modelling of the regional transboundary geothermal aquifers of Western Hungary</u>
S-O-168	Held, S.	<u>Effects of major fault zones on geothermal reservoirs – a case study at Villarrica Volcano, southern Chile</u>
S-O-93	Ingólfsson, H. P., Árnason, K., Axelsson, G., Franzson, H., Hreinsdóttir, S., Jónsson, M. T., Sævarsdóttir, G., Gunnarsson, G., Júlíusson, E., Sigmundsson, F., Gardarsson, S. M.	<u>Deep roots of geothermal systems a georg collaborative project</u>
S-O-393	Carvalho, J. M., Nunes, J. M., do Rosário Carvalho, M.	<u>Direct uses as environmental mitigation measure in Ribeira Grande Geothermal Field (S. Miguel, Azores Islands, Portugal)</u>
S-O-55	Kasmaee, S., Tinti, F., Ferrari, M., Lanconelli, M., Egger, H., Di	<u>Use of Universal Kriging as a tool to estimate mountain temperature distribution affected</u>

	Bella, R., Voza, A., Zurlo, R., Boldini, D., Bruno, R.	<u>by underground infrastructures: the case of the Brenner Base Tunnel</u>
S-O-341	Pereira, A., Costa, J., Panão, M., Miranda, M., Machadinho, A., Lamas, R., Neves, L., Rodrigues, N.	<u>Estimation of heat flow and geothermal gradient from numerical modelling in central Portugal</u>
S-O-360	Roth-Zehner, M.	<u>Prehistoric and ancient occupations near Kesseldorf and Rittershoffen: archaeological surveying excavations along the underground heat network</u>
S-O-388	Salimzadeh, S. Hamid N., Paluszny, A., Bruhn, D. F.	<u>Towards numerical modelling of THMC coupled processes in fractured geothermal reservoirs</u>
S-O-143	Sanjuan B.	<u>Inter-well chemical tracer testing at the Rittershoffen geothermal site</u>
S-O-313	Schaming M., Grunberg M., Jahn M., Schmittbuhl J., Cuenot, N. Genter, A., Dalmais, E.	<u>CDGP, a data center for deep geothermal data from Alsace</u>
S-O-83	Schulze Darup, M., Renner, J.	<u>Automatic pressure control in enhanced geothermal systems</u>
S-O-253	Þorsteinsdóttir, U., Helgadóttir, H. M., Hersir, G. P., Einarsson, G. M.	<u>Conceptual modelling of the Krafla geothermal area, NE-Iceland and lessons on constructing a workflow</u>
S-O-254	Weisenberger, T. B., Ingimarsson, H., Eyjólfssdóttir, E. I., Lévy, L., Hersir, G. P., Flóvenz, Ó. G.	<u>Validation of the Influence of Cation-Exchange Capacity on Resistivity Logs</u>

4.E. Science – Thermodynamics (S-T)

S-T-187	Büsing, H., Niederau, J., Clauser, C.	<u>Pressure-enthalpy formulation for numerical simulations of supercritical water/steam systems applied to a reservoir in Tuscany, Italy</u>
S-T-153	Freymark, J., Sippel, J., Scheck-Wenderoth, M., Bär, K., Stiller, M., Fritsche, J-G., Kracht, M.	<u>The thermal field of the Upper Rhine Graben - Temperature predictions based on a 3D model</u>
S-T-150	Frick, M., Sippel, J., Cacace, M., Scheck-Wenderoth, M.	<u>Influence of geological structure and geophysical parameters on the geothermal field below the city of Berlin, Germany</u>
S-T-166	Loeve, D., Peters, L., Plizzocolo, F., Veldkamp, H., van Wees, J-D., Fokker, P.	<u>Screening of thermal fractures in geothermal doublets</u>

S-T-305	Niederau, J., Börsing, N., Wellmann, F., Clauser, C.	<u>Entropy production and attractors: Measures to quantify uncertainty and complexity introduced by convection</u>
S-T-73	Nigon, B., Englert, A., Christophe, P.	<u>Modeling of heat transport through fractures with emphasis to roughness and aperture variability</u>
S-T-356	Nusiaputra, Y.	<u>A two-phase geothermal wellbore simulator to model THC behavior using Elmer-PHREEQC</u>

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