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GEO THERMICA CALL 1 IN 2018

ICELAND

***1

Company / Institution | Department: Verkis Consulting Engineers | Energy

- **Speciality field:**

Verkís has a long and solid record of successful project planning for geothermal power plants and district heating from the early stage of project development. Our strength lies in the thorough and all-encompassing understanding of the science and technology involved in geothermal projects, having for decades provided consulting services to geothermal investors and developers, operators and financial organizations.

- **Website | Contact person | E-mail:**
www.verkis.com | Carine Chatenay | cc@verkis.is

***2

Company / Institution | Department: Iceland Drilling Ltd. | Drilling

- **Speciality field:**

Iceland Drilling Ltd. is a leading high technical company in the field of high-temperature geothermal drilling and has many decades of experience in both high and low-temperature drilling. Iceland Drilling operates internationally and with the record of drilling several hundreds of geothermal wells, the company has well-grounded expertise in international drilling.

- **Website | Contact person | E-mail:**
<http://www.jardboranir.is/> | Bruce Gatherer | bruce@iceland-drilling.com

NETHERLANDS

*** 1

Company / Institution | Department: GeoPhix | Engineering

- **Speciality field:**

- Power systems integration of electrical and heating distribution infrastructures with new decentralized concepts of energy generation, transition, storage and transport.
- Calculation of the Energy and Mass Flow Balances of material and energy carriers throughout the generation and distribution cycles.
- Consultancy for the Design Engineering and Construction of heat-to-power installations and networks
- Soil and Rock Mechanics and Fluid interactions

- **Website | Contact person | E-mail:**
www.geophix.com | Wouter Bron | wbron@geophix.com

*** 2



Company / Institution | Department: T&A Survey B.V. | Ondergrondse Duurzame Energie

- **Speciality field:**
 - T&A Survey has performed studies and activities from the first initial geological scans to the final instalment of a geothermal system. Our main speciality is related to the identification and assessment of geothermal resources, reserves and reservoirs. To this end, we're highly capable of adaptation and interpretation of seismic data, including (re)processing of seismic data and application of seismic inversion.
 - Further activities include:
 - Geological quick scans and Geothermal Feasibility Studies
 - Analysis of the expected thermal capacity of the geothermal system.
 - Well engineering: A. Design of the subsurface geothermal system; B. Tender phase, C: Drilling management and D: Well optimization (incl. pump tests).
 - Involved in the preparations of the Trias Westland innovative geothermal system, which will drill to 4 kilometres depth.
- **Website | Contact person | E-mail:**
<http://www.ta-survey.nl/> | Ger de Bruin | debruin@ta-survey.nl

***3

Company / Institution | Department: TNO | GeoEnergy

- **Speciality field:**
 - Well constructions, exploration, reservoir optimization, re-use of oil and gas wells for geothermal CO2
- **Website | Contact person | E-mail:**
<http://www.tno.nl> | Gert-Jan Heerens | gert-jan.heerens@tno.nl

***4

Company / Institution | Department: Esri Nederland B.V. | Business Development

- **Speciality field:**
 - Modelling and analysing the subsurface in 3D using Esri ArcGIS Geographic Information System and sharing information with the stakeholders.
 - Subsurface can be modelled in 3D using voxel models as we did in cooperation with TNO Geological Survey of the Netherlands.
 - Link 1: <http://www.esri.nl/news/nieuws/2017/sectoren/sneller-ondergrond-in-3d>
 - Link 2: <http://www.esri.com/industries/environmen>
- **Website | Contact person | E-mail:**
<http://www.esri.com/> | Frank de Zoeten | gert-jan.heerens@tno.nl



ITALY

*** 1

Company / Institution | Department: SERENGEO | Geothermal

- **Speciality field:**
 - Geothermal resource mapping (geostatistics, spatial analysis, thematic mapping, GIS)
 - Reservoir numerical modelling (coupled wellbore-reservoir flow, unstructured grids, pre and post-processing tools)
 - Environmental Impact Assessment Events organization (international congresses, workshops, training courses, etc)
 - Heating and cooling geothermal plants design (standard and non-conventional applications)
- **Website | Contact person | E-mail:**
www.serengeo.com | Carlo Cormio | c.cormio@serengeo.com

*** 2

Company / Institution | Department: Consorzio per lo Sviluppo Delle Aree Geotermiche s.c.r.l.

- **Speciality field:**
 - GEODH
 - DIRECT USES OF GEOTHERMAL ENERGY
 - SOCIAL ACCEPTABILITY
 - REDUCTION OF IMPACTS
 - CHARACTERISATION OF GEOTHERMAL RESOURCES
- **Website | Contact person | E-mail:**
<http://www.cosvig.it> | Loredana Torsello | c.cormio@serengeo.com

*** 3

Company / Institution | Department: West Systems Srl

- **Speciality field:**
 - Sampling and chemical-physical, isotopic and radio-isotopic characterization of atmospheric particulate
 - Environmental radioactivity: consultation and instrument supply for monitoring and characterizing both natural radioactivity and radionuclide pollution, in all environmental matrices.
 - Environment: design and production of specific instruments for the measurement of spatial and secular variations of the chemical-physical parameters in soil, water and atmosphere.

- Consultation, assistance and supply of specific instrumentation, for research surveys on gaseous exchanges at soil-atmospheric levels, in different fields of application, such as volcanologic and geothermal sciences, MSW landfills, polluted sites, etc.
- Dosimetry: design and development of specific instruments to measure ionizing and non-ionizing radiations
- Process automation for industrial purposes
- **Website | Contact person | E-mail:**
<http://www.westsystems.eu> | Giorgio Virgili | g.virgili@westsystems.com

GERMANY

*** 1

Company / Institution | Department: Universität der Bundeswehr München | Electrical Engineering/ Plasma Technology

- **Speciality field:**
 - Drilling through the application of thermal plasma sources
- **Website | Contact person | E-mail:**
<https://www.unibw.de/eit2/> | Karsten Hartz-Behrend | khb@unibw.de

*** 2

Company / Institution | Department: Cleopa GmbH |

- **Speciality field:**
 - Cleopa is a successful Company for eco-innovation and energy efficiency.
 - Evaluating and understanding geothermal heating and cooling installations (within the energy efficiency consulting)
 - Improving the maintenance process of geothermal heating for residential buildings (as part of eco-innovations)
 - Developing Hardware tools for improved maintenance
 - Monitoring and sensing in the field of geothermal heating and cooling
 - Coordination of larger Research, CSA and eco-innovations projects
- **Website | Contact person | E-mail:**
<https://www.cleopa.de/> | Detlef Olschewski | dolschewski@cleopa.de

*** 3

Company / Institution | Department: Karlsruhe Institute of Technology | Institute of Applied Geosciences (AGW)

- **Speciality field:**
 - Shallow and deep geothermal energy

- Website | Contact person | E-mail:
<http://www.agw.kit.edu/> | Philipp Blum | philipp.blum@kit.edu

*** 4

Company / Institution | Department: TARAFTECH

- **Speciality field:**
 - Engineering consultancy specialized in renewables and energy conversion systems and intend to develop a high-efficiency internal combustion heat pump unit sourcing from the ground and/or waste heat sources such as exhaust air, engine exhaust, wastewater etc.
 - Intend to go on development of the technology and following to go on production advanced heat pump systems operating on the waste material as solid municipal waste.
- Website | Contact person | E-mail:
<http://www.taraftech.de> | Saim Bayrak | philipp.blum@kit.edu

TURKEY

*** 1

Company / Institution | Department: GMK YENİLENEBİLİR ENERJİ MÜHENDİSLİK İMALAT SANAYİ VE TİCARET A.Ş. | Geothermal Power Plants and District Heating

- **Speciality field:**
 - Geothermal power plant design
 - Gathering system design
 - District heating
 - Greenhouse design
 - Power plant operation
 - Downhole pump design
 - Downhole heat exchanger design
 - Power plant operation
 - Thermodynamic analysis and modelling of power plant
 - Statistical analysis and regression modelling
- **Website | Contact person | E-mail:**
<http://www.gmkenerji.com.tr> | Murat Karadaş | mkaradas@gmkenerji.com.tr

*** 2

Company / Institution : CVM Coğrafi Veri Modelleme Sanayi ve Ticaret Limited Şirketi (Geographic Data Modelling and Limited | CVM Ltd. Şti.

- **Department:** Anadolu University, Technological Park, Research and Development Agency
- **Speciality field:**
 - Geothermal Exploration by using Remote Sensing and Open Source GIS Software.
 - Measuring soil gas (Radon, Thron, Co2, vs) and evaluate the results for finding new geothermal fields.
 - Using satellite images for determination of lineaments for the new geothermal fields.
 - The solution for Monitoring Geothermal wells and reservoirs.
- **Website | Contact person | E-mail:**
<http://www.cvm.com.tr> | Can Ayday | cayday@cvm.com.tr

*** 3

Company / Institution | Department: Marmara University

- **Department:** Environmental Engineering
- **Speciality field:**

- Heat flow database of Turkey
- Geothermal modelling of geothermal systems in Turkey
- Borehole temperature measurements.
- **Website | Contact person | E-mail:**
<http://mimoza.marmara.edu.tr/~kamil.erkan/> | Kamil Erkan |
kamil.erkan@marmara.edu.tr

SPAIN

*** 1

Company / Institution: GEOLAND SERVICES SL

- **Speciality field:**
 - Geological settings
 - Petrophysics
 - Well log
 - Structural Geology
 - Seismic acquisition and permitting
- **Website | Contact person |**
<http://www.geoland.es> | Daniel Porras | info@geoland.es

*** 2

Company / Institution: ROCVIL SERVINTER S.L | TECNICO

- **Speciality field:**
 - Vertical and horizontal systems closed circuits 5-700 kw
 - Heat pump manufacturer
 - Simultaneous heat and cold -10°C - 85°C
 - District-heating systems
- **Website | Contact person |**
<http://www.geotermica.com> | Rocas Pere | info@geotermica.com

*** 3

Company / Institution: Universitat Autònoma de Barcelona |

- **Department:** Telecommunications and Systems Engineering
- **Speciality field:**
 - Advanced control and numerical simulation of systems:
 - Identification and estimation of dynamical systems
 - Discretization procedures, discrete-time estimation, filtering and control
 - Analysis and control of nonlinear systems: robust and adaptive approaches
 - Numerical simulation of dynamic systems
- **Website | Contact person |**
<http://www.uab.cat> | Asier Ibeas | asier.ibeas@uab.cat

*** 4

Company / Institution: Universidad de Oviedo |

- **Department:** Cluster of Energy, Environment and Climate Change
- **Speciality field 1:**
 - Sector: Industrial technology of fluids and refrigerant gases
 - Services: Research and Development, Production
 - Product: Refrigerant gas for high-temperature compressors, (85°C)
 - Applications: High-Temperature Inverter Compressors, (85°C), for Geothermal
- **Speciality field 2:**
 - Sector: Design and manufacture of Geothermal compressors with inverter technology
 - Services: Research & Development, Production
 - Product: Geothermal compressor for high temperature, (85°C)
 - Applications: Inverter Geothermal heat pump for high temperature, (85°C)
- **Website | Contact person |**
<http://www.uniovi.es> | Enrique Jáimez | ejaimenz@uniovi.es

*** 5

Company / Institution: Nalco Water

- **Department:** Geothermal - Power Business Unit
- **Speciality field 1:**
 - Chemical treatment solutions for geothermal power and direct use plants:
 - Software for simulation of geothermal power plant and scale risk assessment (GEOMIZER)
 - Production and Injection Well Scale Inhibitor / Antiscalant
 - Injection Well Silica Scale Inhibitor
 - Corrosion Inhibitor
 - On-line real time corrosion monitoring equipment (3DTRASAR)
 - H₂S Abatement technology
 - Cooling Water treatment (sulfur deposition, biogrowth)
 - Production and Injection Well Rejuvenation / Revitalization / Cleaning (under development)
- **Website | Contact person |**
<http://www.ecolab.com/nalco-water> | Javuiere Florencio | jflorencio@nalco.com

FRANCE

*** 1

Company / Institution: Université de Poitiers - Laboratoire d'Informatique et d'Automatique pour les Systèmes

- **Department:** Automatic Control for Systems
- **Speciality field:**
 - Data-driven analysis and modelling of complex dynamical systems
 - System identification and control
 - Data-driven modelling of systems governed by partial and ordinary differential equations
 - Heat exchanger data-driven modelling
 - Fouling detection in heat exchangers
 - Model identification of aquifer behaviour and pollutant flow impact
- **Website | Contact person |**
<http://www.lias-lab.fr/> | Guillaume Mercère | guillaume.mercere@univ-poitiers.fr

*** 2

Company / Institution: University of Lorraine, GeoRessources

- **Department:** GeoRessources | ressources carbonées et géothermie
- **Speciality field:**
 - Structural geology,
 - Petrophysical properties,
 - Geological model for the reservoir
- **Website | Contact person |**
<http://georessources.univ-lorraine.fr/> | Yves Geraud | yves.geraud@univ-lorraine.fr

IRELAND

*** 1

Company / Institution: Terra GeoServ Ltd | GeoServ

- **Department:** Geothermal Energy
- **Speciality field:**
 - GeoServ's core skills in the deep geothermal sector have resulted in the completion of several international projects for private sector clients and government institutions including:
 - geothermal potential resource assessment,
 - management of exploration programmes,
 - development of geothermal energy projects from grassroots stage to construction and operation
 - legislative and regulatory aspects of geothermal energy resource development
- **Website | Contact person |**
<http://www.geoservsolutions.com> | Riccardo Pasquali | rpasquali@geoservsolutions.com

BELGIUM

*** 1

Company / Institution: Thomas More Kempen Knowledge centre of energy

- **Department:** KCE | Center for Research and Eco-Metallurgical Expertise
- **Speciality field:**
 - Feasibility studies
 - Teaching geotrained courses
 - Partnership with drilling companies and social houses for demonstrations
- **Website | Contact person |**
<http://kce.thomasmore.be> | Paul De Schepper | paul.deschepper@thomasmore.be

ROMANIA

*** 1

Company / Institution: University Politehnica of Bucharest

- **Department:** ECOMET
- **Speciality field:**
 - Expertise in elaboration and characterization of metallic materials
 - Detailed information about research services and infrastructure could be found at <https://erris.gov.ro/ECOMET---UPB>
- **Website | Contact person |**
<https://erris.gov.ro/ECOMET---UPB> | Cristian Predescu | predescu@ecomet.pub.ro

*** 2

Company / Institution: Technical University Politehnica of Bucharest

- **Department:** UTCB
- **Speciality field:**
 - Geothermal heat pumps for residential/tertiary buildings
 - Multi-source energy systems
 - Energy efficient buildings
- **Website | Contact person |**
<http://www.cambi.ro> | Tiberiu Catalina | tiberiu.catalina@gmail.com

*** 3

Company / Institution: Romanian Geoexchange Society

- **Department:** RGS | Romanian Geoexchange Society - European projects
- **Speciality field:**
 - Technologies for the use of geothermal energy for district and local heating and cooling;
 - Evaluation of energy needs of urban settlements - heating, cooling, domestic hot water, electricity;
 - Efficient use of energy in buildings;
 - Refurbishment of existing district heating systems towards geothermal DH&C systems;
 - Integration of absorption systems and ORC equipment into geothermal DH&C systems
- **Website | Contact person |**
<http://www.geoexchange.ro> | Robert GAVRILIUC | robertgavriliuc@yahoo.com

DENMARK

*** 1

Company / Institution: NIRAS A/S

- **Department:** MISA&VAFO
- **Speciality field:**
 - Specialty field 1 – Environment
 - *Uncover all environmental and planning conditions essential for a successful implementation of geothermal projects.*
 - *Environmental impact assessment (EIA) in industry, process and construction projects dealing with authorities, handling the risk of soil and groundwater pollution.*
 - *Executing cleanings of polluted properties for future reuse.*
 - *Regulatory requirements and legislation.*
 - Specialty field 2 – Energy planning and exploitation geothermal energy
 - *NIRAS has the experts and the tools to form strategies, outline plans, conduct feasibility analyses to build final business plans*
 1. *Strategic energy and resource planning, energy and heating plans*
 - a. *Developing strategic outlook/vision*
 - b. *Set priorities, focus the resources and operations*
 - c. *Ensure stakeholders work towards common goals*
 - d. *Develop planning tools, energy and mass balances, scenario analysis*
 - e. *Define actions, develop roadmaps, support decision making*
- **Website | Contact person**
<http://www.niras.com> | Jan Gellert | jge@niras.dk

Contact

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Alicja Wiktoria Stokłosa, Hjalti Páll Ingólfsson

Email

info@geothermica.eu

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