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**UNU-GTP**

Geothermal Training Programme



## FYRIRLESTRAR

Árlegir fyrirlestrar nemenda Jarðhitaskólans um verkefni sín verða haldnir þriðjudaginn 13. október í Víðgelmi, fyrirlestrarsal Orkugarðs. Fyrirlestrarnir hefjast kl. 09:00. Allt áhugafólk um jarðhita velkomið.

- 09:00-09:10 **Geothermal mapping in Middelur field, Hengill area, SW-Iceland**, flutt af Patrick Muanza frá Lýðveldinu Kongó, leiðbeinendur eru Björn Harðarson og Sigurður Kristinsson
- 09:10-09:20 **Structural mapping and subsurface geology compared with thermal gradient and the geothermal system in Mödruvellir, Hvalfjörður, SW Iceland**, flutt af Davar Ebrahimi frá Íran, leiðbeinendur eru Björn Harðarson og Sigurður Kristinsson
- 09:20-09:30 **Subsurface geology and hydrothermal alteration in the Cachacos-Lombadas sector, Ribeira Grande Geothermal Field, São Miguel island – Azores**, flutt af António Peixoto Franco frá Asoreyjum, Portúgal, leiðbeinandi er Björn Harðarson
- 09:30-09:40 **Borehole geology and hydrothermal alteration mineralogy of well MW-19A, Menengai geothermal field, Kenya**, flutt af Fredrick Mutua frá Kenía, leiðbeinandi er Björn Harðarson
- 09:40-09:50 **Borehole geology and hydrothermal alteration of well HE-58, Hellisheidi geothermal field, SW-Iceland**, flutt af Hamda Wais frá Djibútí, leiðbeinendur eru Björn Harðarson og Helga Margrét Helgadóttir
- 09:50-10:00 **Interpretation of geochemical data from the low-temperature geothermal area, Fljotin, North Iceland, compared to selected geothermal samples from Rungwe, Tanzania**, flutt af Nyaso Makwaya frá Tansaníu, leiðbeinandi er Vigdís Harðardóttir
- 10:00-10:10 **Evaluation of structural permeability in Mahanagdong geothermal field, Philippines using soil gases ( $^{220}\text{Rn}$ ,  $^{222}\text{Rn}$ ,  $\text{CO}_2$  flux)**, flutt af Jigo Mismanos frá Filippseyjum, leiðbeinandi er Auður Agla Óladóttir
- 10:10-10:20 **Amorphous silica and anhydrite scaling potential from MW01, Menengai, Kenya**, flutt af John Mundui frá Kenía, leiðbeinandi er Andri Stefánsson
- 10:20-10:30 **Evaluation of factors controlling the concentration of non-condensable gases and their possible impact on the performance of wells in the Olkaria geothermal field**, flutt af Ruth Wamalwa frá Kenía, leiðbeinandi er Tobias Weisenberger
- 10:30-10:50 *Kaffihlé*
- 10:50-11:00 **Microgravity survey in 2009-2010 around Bacman geothermal field – gravity corrections and interpretations**, flutt af Jonathan Lee Monasterial frá Filippseyjum, leiðbeinendur eru Kristján Ágústsson og Ingvar Þór Magnússon
- 11:00-11:10 **Processing and joint 1D inversion of MT and TEM data from Alallobeda geothermal field in Tendaho, NE-Ethiopia and comparison of results with Krafla geothermal field, NE-Iceland**, flutt af Getenesh Abebe frá Eþíópíu, leiðbeinendur eru Gylfi Páll Hersir og Knútur Árnason
- 11:10-11:20 **TEM and MT resistivity surveying: Data acquisition, processing and 1D inversion with an example from Hágöngur geothermal field, Mid-Iceland**, flutt af Ali Abdou frá Kómoroseyjum, leiðbeinendur eru Gylfi Páll Hersir og Knútur Árnason
- 11:20-11:30 **Seismic monitoring of geothermal fields; a case study of Hellisheidi geothermal field**, flutt af Shashika Amali Samaranayake frá Sri Lanka, leiðbeinandi er Sigríður Kristjánsdóttir

- 11:30-11:40 **Geothermal well design using the new 2015 New Zealand standard; a case of MW-20A in Menengai, Kenya**, flutt af Anthony Ngigi frá Kenía, leiðbeinendur eru Sverrir Þórhallsson, Ingólfur Þorbjörnsson og Gunnar Skúlason Kaldal
- 11:40-11:50 **Management of the environmental aspects of Assal-Fiale geothermal project in Djibouti – A case comparison with geothermal fields in Iceland**, flutt af Ali Adaweh frá Djibútí, leiðbeinandi er Þóroddur Þóroddsson
- 11:50-12:00 **Assessment of spent geothermal liquid and the potential environmental impacts on ground water, soil and vegetation at Menengai geothermal field**, flutt af Fridah Kiara frá Kenía, leiðbeinendur eru Thecla Mutia og Daði Þorbjörnsson
- 12:00-12:10 **Preliminary economic valuation of environmental impacts of Olkaria geothermal project**, flutt af Elizabeth Mwangi-Gachau frá Kenía, leiðbeinandi er Brynhildur Davíðsdóttir
- 12:10-13:00 *Hádegishlé*
- 13:00-13:10 **The thermodynamics behind initiation of flow from geothermal wells**, flutt af Jason Gotuato frá Filippseyjum, leiðbeinendur eru Sverrir Þórhallsson og Benedikt Steingrímsson
- 13:10-13:20 **A study on different two-phase flow correlations used in geothermal wellbore modelling**, flutt af Bryan Cacho frá Filippseyjum, leiðbeinendur eru Lárus Þorvaldsson og Jean-Claude Berthet
- 13:20-13:30 **Temperature and pressure analysis of wells NJ-13 and NJ-28 in Nesjavellir, SW-Iceland**, flutt af Aloysius Otmar frá Papúa Nýju Gíneu, leiðbeinendur eru Svanbjörg Haraldsdóttir, Sæunn Halldórsdóttir and Benedikt Steingrímsson
- 13:30-13:40 **Well data analysis and volumetric assessment of the Sol de Mañana geothermal field, Bolivia**, flutt af Pedro Ramos Sulciani frá Bólívíu, leiðbeinendur eru Helga Tulinius og Sæunn Halldórsdóttir
- 13:40-13:50 **Assessment for Dezhou sandstone geothermal reservoir in North China**, flutt af Tingting Zheng frá Kína, leiðbeinendur eru Valdís Guðmundsdóttir og Guðni Axelsson
- 13:50-14:00 **Thermodynamic modelling and exergy analysis of a single stage flash geothermal desalination system in the Galápagos Islands, Ecuador**, flutt af Andrés Lloret Cordero frá Ekvador, leiðbeinendur eru Páll Valdimarsson, María Guðjónsdóttir og Málfríður Ómarsdóttir
- 14:00-14:10 **Steam and brine gathering system design for Cachaços-Lombadas new production wells in Ribeira Grande geothermal field**, flutt af Nuno Melo Mendonça Vieira frá Asoreyjum, Portúgal, leiðbeinandi er Þorleikur Jóhannesson
- 14:10-14:20 **Topping unit at Olkaria IV geothermal power plant, Naivasha, Kenya**, flutt af Reuben Langat frá Kenía, leiðbeinendur eru Páll Valdimarsson og María Guðjónsdóttir
- 14:20-14:30 **Study on operation and maintenance of a flash steam power plant: Reykjanes power plant**, flutt af Fardaneh Ravazdezh frá Íran, leiðbeinandi er Geir Þórólfsson
- 14:30-14:40 **Geothermal energy utilization model for Nkhotakota geothermal springs in Malawi**, flutt af Kondwani Gondwe frá Malaví, leiðbeinandi er Árni Ragnarsson
- 14:40-15:00 *Kaffihlé*
- 15:00-15:10 **Project review of geothermal spas construction in Kenya and Iceland**, flutt af Peketsa Mangi frá Kenía, leiðbeinendur eru Yngvi Guðmundsson og Jóhann Kristjánsson
- 15:10-15:20 **Financial assessment of commercial extraction of sulfur and carbon dioxide from geothermal gases in Menengai, Kenya**, flutt af Shammah Kiptanui frá Kenía, leiðbeinandi er Páll Jensson
- 15:20-15:30 **Assessment on project management maturity at Landsvirkjun – Power projects department division**, flutt af Kasu Ejerssa frá Eþíópíu, leiðbeinandi er Helgi Þór Ingason