

27 February 2025

GeoAlliance - Green Energy Frontiers Meeting

Program

09:30–10:00 Registration (on-site) & pick-up of conference materials

10:00–10:40 Welcoming speeches

- Representative of the University of Bucharest
- Representative of the Ministry of Energy, Dr. Adrian Bazavan,
- Representative of the Mineral Resources Department, Ministry of Economy, Digitalization, Entrepreneurship and Tourism - Dr. ing. Răzvan Greculeasa
- GeoAlliance Partners Presentation (University of Bucharest, PSS-GEO, Norway)

10:40–12:00 WORKSHOP ON GEOTHERMAL DATA - COUNTRY LEVEL

JOINT ACTIVITY OF THE GEOALLIANCE
PROJECT AND THE INSTITUTE OF GEODYNAMICS OF THE ROMANIAN ACADEMY

PRESENTATIONS

- **Geothermal Maps of Romania: Heat Flow Map, 3000m Temperature Map, Thermal Springs Map** – Florina Chitea & Andrei Marc-Vodă (University of Bucharest, Faculty of Geology and Geophysics)
- **The Heat Flow Map of Romania. A review** – Crișan Demetrescu & Venera Dobrică (Institute of Geodynamics, Romanian Academy)
- **Unlocking Geothermal Potential: The Power of Public Data in Iceland** – Thorsteinn Masson (Blami Consulting)

GUIDED DISCUSSION & PUBLIC INTERVENTIONS ON THE SUBJECTS

- Data availability & data quality
- Necessary steps for geothermal maps country update
- Recommendations

12:00–12:30 – COFFEE BREAK



12:30–14:00 TRAINING SESSION

12:30–13:10

Part A: **Geothermal Energy in Smart Cities: Heating, Cooling, Electricity, Energy Efficiency and Decarbonization.** Invited Speaker: Sonia Isabella López Kovács (SPE Geothermal Technical Section for Europe & Repsol, Spain)

Part B: **Environmental Risks of Geothermal Resource Exploitation** – Presented by Florina Chitea & Adrian Iurkiewicz (University of Bucharest)

13:10–14:00

Part C: **Seismic Data Processing for Geothermal Resources** – Presented by Ionelia Panea (University of Bucharest)

Part D: **Seismic Imaging for Geothermal Surveys: Examples from Romanian-Reprocessing** – Presented by Juri Muzi (PSS-GEO, Norway)

Part E: **GeoAlliance Learning Materials** – Presented by Alena Finogenova (PSS-GEO, Norway)

14:00–15:00 – LUNCH

15:00–17:20 GREEN ENERGY FRONTIERS SYMPOSIUM

15:00–15:20 Invited presentation: **Geothermal Energy in Romania. Present and Perspectives** – Marian Bordeianu (Geology Compartment, TRANSGEX; STAR-UBB Institute, Babeş-Bolyai University of Cluj-Napoca)

15:20–15:40 **Aeromagnetic and Resistivity Anomalies Associated to the Călimăneşti-Cozia Geothermal System** – Dumitru Ioane¹, Florina Chitea¹, Mihaela Scărădeanu¹ (¹University of Bucharest, Faculty of Geology and Geophysics)

15:40–16:00 **Geophysical Investigations for Evaluation of Geothermal Potential in the Baia Mare Area, Romania** – Ionelia Panea¹, Doru Marinescu², Ioan Munteanu¹, Florina Chitea¹, Relu Roban¹, Lucian Petrescu¹ (¹University of Bucharest, Faculty of Geology and Geophysics; ²Prospecţiuni S.A., Bucharest, Romania)



- 16:00–16:20** Invited Presentation: **Troubleshooting on Recent Geothermal Tenders from Romania. How to Handle Planning Failures during Tendering and Realizing of Running Projects?** – Viktória Försterné Nán (Foratherm Kft., Hungary)
- 16:20–16:40** **Geothermal Projects in Romania - From Idea to Reality. Case Study: Beiuș and Tășnad Localities** – Marian Bordeianu^{1,2}, Alexandru Schlett³, Luana Călburean¹, Alena Finogenova³ (¹TRANSGEX SA Oradea, ²Laboratory of Paleotheriology and Quaternary Geology, STAR-UBB Institute, Babeș-Bolyai University of Cluj-Napoca, ³PSS-GEO, Norway)
- 16:40–17:00** **Seismic Modelling of Beiuș Geothermal Field** – Juri Muzi, Vita Kalashnikova, Alena Finogenova (PSS-GEO, Norway)
- 17:00–17:20** **Electric Surveys Applicability for Geothermal Project Beiuș (Romania): Forward 2D Modelling, Inversion and Recommendations for Field Work** – Alena Finogenova¹, Juri Muzi¹, Vita Kalashnikova¹, Alexandru Schlett¹, Marian Bordeianu^{2,3} (¹PSS-GEO, Norway; ²TRANSGEX SA, Romania, ³STAR-UBB Institute, Babeș-Bolyai University of Cluj-Napoca)
- 17:20–18:00 – COFFEE BREAK**

ROOM 1

- 18:00–18:20** **Unveiling the Mangalia Geothermal Area: Geological and Geophysical Insights into a Less-Explored Thermal System on the Black Sea Shoreline** – Irina Stanciu¹, Dumitru Ioane², Andrei Popa^{1,2} (¹GeoEcoMar, Romania, ²University of Bucharest)
- 18:20–18:40** **Goelectrical Investigation in Toplița City & Geothermal Wells** – Dumitru Ioane, Florina Chitea, Andrei Marc-Vodă (University of Bucharest)
- 18:40–19:00** **Geophysical Survey (Gravity and Magnetics) to Detect the Geothermal Potential of Methana Volcano, Greece** – G. Apostolopoulos¹, C. Orfanos¹, K. Leontarakis¹, S. Karizonis¹, S. Chailas² and E. Spyridonos³ (¹National Technical University of Athens, GREECE, ²National and Kapodistrian University of Athens, GREECE, ³Power Public Corporation Renewables S.M.S.A.)



ROOM 2

- 18:00–18:20 Biogas Cogeneration in Water Treatment Plants** – Adrian Moisa¹, Bogdan Felix Apostol² (¹Jetrun SRL; ²National Institute for Earth Physics)
- 18:20–18:40 Landfill Ecologization as a Conversion to Green Space and Renewable Green Energy. Case Study – Karlsruhe** – Maria Boștenaru-Dan¹, Mirela-Adriana Anghelache² (¹“Ion Mincu” University of Architecture and Urbanism, Bucharest, Romania; ²“Sabba S. Ștefănescu” Institute of Geodynamics of the Romanian Academy, Romania)
- 18:40–19:00 Waste to Value Concept and the Role of Geophysics for Deposited Waste Management** – Florina Chitea¹, Fikos Ilias², Dumitru Ioane¹, Nicolae Cruceru^{1,3}, Loredana Botoș¹, (¹University of Bucharest, ²Thessaloniki University, ³Institute of Speleology, Romanian Academy)
- 19:00–19:20 Geothermal Resources as Tourism Attraction Between Potential and Sustainable Valorification** – Andreea Andra-Topârceanu¹, Florina Chitea^{1,2}, Diana Popovici¹, Adriana-Bianca Ovreiu¹ (¹University of Bucharest, ²Institute of Geodynamics of the Romanian Academy)

19:20–20:20 – GEOALLIANCE NETWORKING SESSION

