



Lithium Symposium

22.-23.4.2024



EU HORIZON 2020 GREENPEG Project Workshop:
Pegmatite and hardrock exploration “Made in Europe”
in the service of the European Geological Surveys

Symposium Part 1 (22.04.2024)

- 12:00 **Registration / Snacks**
- 13:00 **Welcome address**
- 13:10 **Lithium – European Perspective to 2030 and implications from the CRMA**
Michael Schmidt, German Mineral Resources Agency (DERA)
- 13:30 **The GREENPEG project – new technologies for rare metal pegmatite exploration
‘made in Europe’ to feed the energy transition**
Axel Müller, Natural History Museum, University of Oslo
- 13:50 **The pursuit of efficient lithium exploration methods: the Barroso-Alvão key
example**
Alexandre Lima, University of Porto Portugal
- 14:10 **Mineral Systems based prospectivity modelling of lithium-rich pegmatite deposits
surrounding the Central Finland Granitoid Complex**
Petri Pulli, University of Oulu
- 14:30 **The role of the exploration geologist in successful development of lithium
pegmatites**
Thomas Unterweissacher, GEO Unterweissacher GmbH Austria
- 14:50 **Coffebreak / Poster**
- 15:20 **Discovery history and exploration of the Weinebene Spodumene deposit**
Richard Göd, Faculty for Earth Sciences, University of Vienna
- 15:40 **Heavy minerals of barren and spodumene pegmatites of the Austroalpine Unit
(Eastern Alps)**
Heinrich Mali, Lehrstuhl für Geologie und Lagerstättenlehre, Montanuniversität
Leoben
- 16:00 **Analysing Lithium Spodumene Pegmatite with Laser Induced Breakdown
Spectroscopy**
Jeannet Meima, Federal Institute for Geosciences and Natural Resources (BGR)

- 16:20 **Africa and Canada – the hidden champions in lithium mining and sourcing partnerships with the EU**
Wolfgang Reimer, Geokompetenzzentrum Freiberg
- 16:40 **Beyond Hot Air and leaving the comfort zone: critical raw materials supply for the 'green' transition**
Gertrude Saxinger, University of Vienna & Austrian Polar Research Institute APR
- 17:00 **Networking / Poster**

Öffentlicher Vortrag

- 18:00 **Woher kommen die mineralischen Rohstoffe für die E-Mobilität?**
Holger Paulick, GeoSphere Austria
- 19:30 Dinner (at own expense, registration required, location will be announced)
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Symposium Part 2 (23.04.2024)

- 08:30 **Wake-up Coffee**
- 08:50 **Geothermal lithium plays: What can we learn from the Upper Rhine Graben and the Molasse Basin of SW Germany?**
Jens Grimmer, Karlsruher Institut für Technologie (KIT)
- 09:10 **Geothermal brines as a probable source of energy and critical metals - Brine RIS project**
Magdalena Worsa-Kozak, Wroclaw University of Science and Technology, Poland
- 09:30 **CRM geothermal - European Fluid Atlas**
Tamás Madarász, University of Miskolc
- 09:50 **Closing the Loop: Transforming Lithium-Ion Batteries into a Source of Raw Materials**
Eva Gerold, Montanuniversität Leoben
- 10:10 **Coffeebreak**
- 10:40 **Resource-making around Lithium: Research and development and geographies of production**
Erika Faigen, University of Vienna
- 11:00 **Implications of changing price-making on the lithium global production network**
Bernhard Tröster, ÖFSE (Austrian Foundation for Development Research)

Panel discussion / Podiumsdiskussion (with impulse lecture, open to public, partly in German)

- 11:20 **The Critical Raw Materials Act - Securing raw materials supply in the EU**
Robert Holnsteiner, Federal Ministry of Finance
- 11:40 **Panel discussion / Podiumsdiskussion**
- 13:00 **End of Symposium & lunch**



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Programme (23.4.2024)

- 14:00 **Welcome and Moderation**
Dr Wolfgang Reimer, GKZ Freiberg e.V., GREENPEG Exploitation Manager
- 14:10 **Key note: The EU Critical Raw Materials Act and the role to the European Geological Surveys** - Guillaume Bertrand, EuroGeoSurveys (EGS)
- Session 1 GREENPEG results fit for purpose**
- 14:40 **Introduction into the GREENPEG toolset and the GREENPEG test sites –**
Prof Dr Axel Müller, NHM, Oslo, Coordinator GREENPEG project
- 15:00 **The GREENPEG first EASA certified nose stinger – an innovative airborne exploration tool for geophysical data acquisition –** Klaus Brauch, terratec Geophysical Services
- 15:20 **Bringing piezoelectric technology in pegmatite an hardrock exploration –**
Dr Marco Brønner, Geological Survey of Norway (NGU)
- Discussion
- Coffee Break**
- Session 2 Pegmatite Exploration in Europe and EU Geological Surveys**
- 16:20 **Prospection on rare element pegmatites using trace elements from magmatic muscovite –** Dr Ralf Schuster, GeoSphere Austria, Wien
- 16:40 **Pegmatite occurrences in Slovenia and its economic raw materials potential –**
Dr Klemen Teran, Head of the Department Regional Geology, GEO-ZS, Ljubljana
- 17:00 **European lithium deposits and the framework conditions for their valorisation –**
Dr Wolfgang Reimer, GKZ Freiberg e.V., GREENPEG
- Discussion
- 17:40 **GREENPEG results serving territorial mapping and exploitation of pegmatites and improving the resolution and interoperability of existing raw materials digital maps**
- Key note: Challenges and opportunities for explorers in the Nordic countries in terms of public private partnerships –** Mathias Forss, geopool, Finland
- Round table discussion**
- 19:00 Fairwell and end of workshop