Georesources beneath our feet

Report of Contributions

Welcome and Intro

Contribution ID: 1

Type: not specified

Welcome and Intro

Thursday 16 June 2022 10:00 (15 minutes)

Introduction and organisational things

Presenter: GLEESON, Sarah

Numerical modelling of reservoir d ...

Contribution ID: 7

Type: not specified

Numerical modelling of reservoir depletion induced seismicity in Groningen natural gas reservoir in the Netherlands using distinct element modelling

Friday 17 June 2022 11:45 (15 minutes)

Presenter: YOON, Jeoung Seok (GFZ/Dynafrac)

Geothermal research activities in t ...

Contribution ID: 8

Type: not specified

Geothermal research activities in the Berlin -Brandenburg region with focus on reservoir fluid properties and their potential for critical raw material extraction

Thursday 16 June 2022 12:15 (15 minutes)

Presenter: REGENSPURG, Simona (GFZ)

Structural evolution and the therm ...

Contribution ID: 12

Type: not specified

Structural evolution and the thermal field of the NGB

Thursday 16 June 2022 10:15 (15 minutes)

Presenter: SCHECK-WENDEROTH, Leni (GFZ)

Georesources and coupled THM m ...

Contribution ID: 13

Type: not specified

Georesources and coupled THM models applications to the NGB

Thursday 16 June 2022 14:00 (15 minutes)

Presenter: CACACE, Mauro (GFZ)

Reservoir Monitoring using Contr...

Contribution ID: 14

Type: not specified

Reservoir Monitoring using Controlled Source Electromagnetics ? A case study from a producing oil field in NW Germany

Friday 17 June 2022 12:00 (15 minutes)

Presenter: TIETZE, Kristina (GFZ)

3-D horizontal and vertial seismic ...

Contribution ID: 16

Type: not specified

3-D horizontal and vertial seismic profiling at the geothermal site Groß-Schönebeck

Thursday 16 June 2022 12:30 (15 minutes)

Presenter: KRAWCZYK, Charlotte (GFZ)

Quantification of Methane leakage ...

Contribution ID: 17

Type: not specified

Quantification of Methane leakage in abondoned oil wells in the North Sea

Friday 17 June 2022 09:45 (15 minutes)

Presenter: HÄCKEL, Matthias (Geoomar)

Gas leakage and leakage mitigatio ...

Contribution ID: 18

Type: not specified

Gas leakage and leakage mitigation studies

Friday 17 June 2022 10:00 (15 minutes)

Presenter: DEUSNER, Christian (Geomar)

Organic Geochemistry in the Nort...

Contribution ID: 19

Type: not specified

Organic Geochemistry in the North German Basin -Part I: Elements of the fossil carbon cycle

Friday 17 June 2022 09:15 (15 minutes)

Presenter: SCHULZ, Hans-Martin (GFZ)

Organic Geochemistry in the Nort...

Contribution ID: 20

Type: not specified

Organic Geochemistry in the North German Basin -Part II: Monitoring the role of organic carbon and microbial systems on the utilization of the deep subsurface

Friday 17 June 2022 09:30 (15 minutes)

Presenter: VIETH-HILLEBRAND, Andrea (GFZ)

GeoFern: Suitability of Mesozoic a ...

Contribution ID: 21

Type: not specified

GeoFern: Suitability of Mesozoic aquifers for subsurface energy storage in the North German Basin

Thursday 16 June 2022 12:00 (15 minutes)

 Presenter:
 PIEKARSKI, Jan-Kristian (GFZ)

 Session Classification:
 Geodynamics and Geothermal use

Thermal characterization of the N...

Contribution ID: 22

Type: not specified

Thermal characterization of the North German Basin: Experiments and field campaigns for geothermal exploration

Thursday 16 June 2022 11:45 (15 minutes)

Presenter: FUCHS, Sven (GFZ)

Enhanced NAPL Remediation Cau...

Contribution ID: 23

Type: not specified

Enhanced NAPL Remediation Caused by Thermal Energy Storage in Shallow Subsurface

Thursday 16 June 2022 14:30 (15 minutes)

Presenter: SHAO, Haibing (UFZ)

Modeling neighborhood-scale shal...

Contribution ID: 24

Type: not specified

Modeling neighborhood-scale shallow geothermal energy utilization: a case study in Berlin

Thursday 16 June 2022 12:45 (15 minutes)

Presenter: RANDOW, Jakob (UFZ)

Parametric optimization and comp...

Contribution ID: 25

Type: not specified

Parametric optimization and comparative study of an organic Rankine cycle power plant for two-phase geothermal sources

Thursday 16 June 2022 14:45 (15 minutes)

Presenter: CHEN, Chaofan (UFZ)

An environmental information sys ...

Contribution ID: 26

Type: not specified

An environmental information system for the exploration of energy systems in Schleswig Holstein

Thursday 16 June 2022 14:15 (15 minutes)

Primary author: RINK, Karsten (UFZ)Presenter: GRAEBLING, Nico (UFZ)Session Classification: Geodynamics and Geothermal use

Interactive 4D Visualisation of the ...

Contribution ID: 27

Type: not specified

Interactive 4D Visualisation of the Mont Terri Underground Laboratory in Virtual Reality

Thursday 16 June 2022 16:15 (15 minutes)

Presenter:GRAEBLING, Nico (UFZ)Session Classification:Geological Storage

Diagenesis and carbonate replace ...

Contribution ID: 36

Type: not specified

Diagenesis and carbonate replacement sulfide mineralization in the Permian Kupferschiefer (Saale Basin East Germany)

Friday 17 June 2022 09:00 (15 minutes)

Presenter: MOHAMMEDYASIN, Mohammed Seid (GFZ)

A monolithic thermo-hydro-...

Contribution ID: 49

Type: not specified

A monolithic thermo-hydro-mechanical two-phase flow formulation for modelling gas migration in geotechnical barriers

Thursday 16 June 2022 15:45 (15 minutes)

Presenter:GRUNWALD, Norbert (UFZ)Session Classification:Geological Storage

From Workflows towards Digital T ...

Contribution ID: 50

Type: not specified

From Workflows towards Digital Twins for Geological Repositories

Thursday 16 June 2022 16:00 (15 minutes)

Presenter:KOLDITZ, Olaf (UFZ)Session Classification:Geological Storage

Subsurface on-shore storage of cli ...

Contribution ID: 51

Type: not specified

Subsurface on-shore storage of climate and energy relevant gases: The example of the Ketzin pilot site in the North German Basin

Thursday 16 June 2022 15:30 (15 minutes)

Presenter: SCHMIDT-HATTENBERGER, Conny (GFZ) **Session Classification:** Geological Storage

General Discussion

Contribution ID: 52

Type: not specified

General Discussion

Friday 17 June 2022 12:15 (45 minutes)

Guiding Questions:

Could we produce a "road map" document on the NGB describing potential uses of different Formations in the sub-surface and the associated ESG issues?

What would need to be done in terms of environmental baseline studies, monitoring, remediation if we want to use Formation X for Georesource Y etc. (coupling underground and above ground aspects)?

How do stakeholders choose if there is more than one potential use? What about governance of underground usage?

Where do we see the biggest potential for future research in the NGB?

Where do we see potential fields for cooperation between different centres and scientific fields? What competences are missing?

How to make best use of new models, technical developments, existing infrastructure and generated data?

Exploration and use of geothermal...

Contribution ID: 53

Type: not specified

Exploration and use of geothermal reservoirs in NE Germany

Thursday 16 June 2022 10:30 (45 minutes)

Presenter:OBST, Karsten (Landesamt Geologie M-V)Session Classification:Geodynamics and Geothermal use

Discussion

Contribution ID: 54

Type: not specified

Discussion

Thursday 16 June 2022 13:00 (30 minutes)

Discussion

Contribution ID: 55

Type: not specified

Discussion

Thursday 16 June 2022 16:30 (30 minutes)

Session Classification: Geological Storage

A micrometeorological method for ...

Contribution ID: 56

Type: not specified

A micrometeorological method for quantifying gas leakage

Friday 17 June 2022 10:15 (15 minutes)

Presenter: SACHS, Torsten (GFZ)

Investigating seismicity accompan ...

Contribution ID: 57

Type: not specified

Investigating seismicity accompanying gas exploitation and storage

Friday 17 June 2022 11:30 (15 minutes)

Presenter: SIMONE, Cesca (GFZ)

Slow Migrations of the North Sea: ...

Contribution ID: 58

Type: not specified

Slow Migrations of the North Sea: An Anthropological Investigation of the Energy Transition in the Shetland Islands and Off-Shore Oil and Gas Assets of the Northern North Sea

Friday 17 June 2022 10:30 (15 minutes)

Presenter: BAKKE, Gretchen (IASS)

Discussion

Contribution ID: 59

Type: not specified

Discussion

Friday 17 June 2022 10:45 (15 minutes)