

Personal profile

Profile Mette Olivarius, PhD



Company

Geological Survey of Denmark and Greenland, GEUS

2020-present Senior Scientist, Department of GeoEnergy and Storage, GEUS
2015-2020 Scientist, Department of Reservoir Geology, GEUS
2010-2015 PhD student, GEUS and Department of Geoscience, Aarhus University
2009-2010 Research Assistant, Department of Geological Mapping, GEUS
2009 M.Sc. degree, Sedimentary Geology, University of Copenhagen

Dr. Olivarius is a senior scientist at the Geological Survey of Denmark and Greenland (GEUS), where her work is focussing on utilizing the subsurface in the green transition. For this purpose, she has conducted method development concerning integration of provenance analysis and diagenesis modelling in the exploration of geothermal energy and CO₂ storage sites. She is experienced with petrographic methods such as optical and scanning electron microscopy, stable isotope analysis, cathodoluminescence, fluid inclusion microthermometry, microprobe and X-ray diffraction, and provenance methods including radiometric age dating and heavy mineral analysis.

She obtained her PhD degree from Aarhus University in 2015, in which she had focussed on improving the prediction of reservoir quality of the Danish geothermal reservoirs that comprise Mesozoic sandstones. She has participated in many multidisciplinary projects with international partners. She was project manager of the project "Sources of radionuclides in geothermal water" funded by HOFOR and Innovation Fund Denmark, and project manager of the Danish part of the project "Optimized CO₂ storage in sloping aquifers" funded by CLIMIT and the Research Council of Norway.

Dr. Olivarius is manager of the North Atlantic Provenance Database hosted at GEUS, and she is topic editor for GEUS Bulletin. She is author / co-author of > 100 papers, abstracts, and reports, of which 30 are scientific papers in peer-reviewed journals.

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