Timo Kessler

Dossenweg 7 • 5020 Salzburg • Austria • +43 699 1705 3749 • timokes@posteo.de

Name	Timo Kessler
Birth date	10/07/1981
Nationality	german

EDUCATION

09/2015 – autumn 2017	Master studies in geology University of Salzburg, Austria
12/2008 – 05/2012	PhD in hydrogeology and stochastic modeling Technical University of Denmark and Geological Survey of Denmark *thesis title: Hydrogeological Characterization of Low-permeability Clayey Tills – the Role of Sand Lenses*
02/2008 – 10/2008	Graduated engineer in environmental engineering UNESCO-IHE and Technical University of Delft, The Netherlands and Sokoine University of Tanzania
01/2007 – 11/2007	Studies abroad at Gobabeb Training and Research Centre, Namibia
10/2002 – 12/2006	Dipl.-Ing. studies in environmental engineering University of Stuttgart, Germany

RESEARCH INTERESTS

- retracement of groundwater sources with respect to origin and retention times,
- numerical modeling of vulnerable groundwater resources,
- description and stochastic simulation of geological heterogeneity,
- hydraulic classification of karstic and crystalline formations.

RESEARCH EXPERIENCE

06/2016 – 02/2017	*Degent-Net – Distributed geothermal low-temperature heating grids* group leader flow modeling, Geoconsult ZT GmbH, Salzburg, Austria
06/2011 – 08/2011	*GAP - Greenland Analogue Project (GAP)* field support, Geological Survey of Denmark, Kangerlussuaq, Greenland
12/2008 – 03/2012	*REMTEC – Remediation Technologies for contaminated soil/groundwater* researcher and site engineer for contaminant investigation and remediation, Technical University of Denmark, Denmark

PROFESSIONAL EXPERIENCE

Since 01/2013	Geoconsult ZT GmbH, Salzburg, Austria project leader hydrogeology (groundwater modeling)

FURTHER TRAINING

- Hydrological Simulation Methods – Summer course at University of Stuttgart
- Hydraulic Laboratory Practice – Summer course at University of Stuttgart
- Field course in glaciology and glacial geology in Kangerlussuaq, Greenland
- Geostatistics and GIS - PhD course at the University of Århus, Denmark
- Hydrogeophysics – field course at the GEOcenter in Copenhagen, Denmark
- Stochastic Modeling of Heterogeneity and Transport in Geologic Media
- Flow and Transport in Porous and Fractured Media – summer school in Cargèse, Corsica
- Groundwater modeling with HydroGeoSphere, PhD course at GEOcenter in Copenhagen

SKILLS

Languages	German	excellent (mother tongue)
	English	excellent (speaking and writing)
	Danish	fluent (speaking and writing)
	French	moderate (speaking)

IT	data processing MS Office Suite databases (Access, SQL, VIEWLOG, SiteFX, GeODin), GIS (ArcMap, QGIS), modeling (Feflow, Modflow, HydroGeoSphere, Multiphysics, Petrel), geostatistics (SGemS, R, TPROGS) programming (Matlab – good; Python, Java - basic)

PUBLICATIONS

Kessler, T.C., Comunian, A., Oriani, F., Renard, P., Nilsson, B., Klint, K.E., Bjerg, P., 2012. Modeling Fine-scale Geological Heterogeneity – Examples of Sand Lenses in Tills. *Groundwater*.

Kessler, T.C., Klint, K.E., Nilsson, B., Bjerg, P.L., 2012. Characterization of Sand Lenses Embedded in Tills. *Quaternary Science Reviews,* 53, 55-71.

Kessler, T.C., Klint, K.E., Nilsson, B., Bjerg, P.L., 2011. Characterization of sand lenses and their role for subsurface transport in low-permeability clay tills. *GeoHydro 2011*, Proceedings paper.

Kessler, T.C., Klint, K.E.S., Renard, P., Nilsson, B., Bjerg, P.L., 2010. Geostatistical description of geological heterogeneity in clayey till as input for improved characterization of contaminated sites. *IAHS, GQ2010*, Proceedings paper.

Uhlenbrook S., Kessler T.C., Mul M.L., Bohte R., Savenije H.H.G., 2009. Study of land use impacts on runoff generation processes in steep, semi-arid headwater catchments, South Pare Mountains, Tanzania. *Landschaftsökologie und Umweltforschung*, Proceedings paper.