

# Maurer, Hansruedi, Prof. Dr.



ETH Zurich  
Prof. Dr. Hansruedi Maurer  
Institute of Geophysics\_  
NO H 46  
Sonneggstr. 5  
8093 Zurich  
SWITZERLAND  
Phone: +41 44 633 6838  
Fax: +41 44 633 1065  
E-Mail: [hansruedi.maurer@erdw.ethz.ch](mailto:hansruedi.maurer@erdw.ethz.ch)

## CV

**Hansruedi Maurer** received his Diploma degree (M.Sc.) in Geophysics in 1989, his Ph.D. in Geophysics in 1993 and his Habilitation doctoral degree in Geophysics in 2002, all from ETH Zurich. Subsequently, he joined the ETH Applied and Environmental Geophysics group (now Exploration and Environmental Geophysics group) as a Research Associate.

In 1996, he was promoted to Senior Research Associate. Between 1996 and 2005, he spent a total of 10 months as a guest scientist at the Geological Survey of Canada and the University of British Columbia. His primary research interests concern inversions of diverse geophysical data.

During the past decades, he initiated several earthquake research projects and directed various ventures that required the development of crosshole tomography, 2D and 3D refraction tomography, self-potential tomography, joint inversions of DC resistivity and time-domain EM data and 3D inversions of high-resolution magnetic data. Currently, he focuses his research on cryosphere applications, deep geothermal energy and nuclear waste repositories.

He serves or has served on several national and international committees. He has currently co-authored >120 publications in international journals and a similar number of contributions in refereed conference proceedings volumes. In 1998 he received the "Best Poster Award" from the Society of Exploration Geophysics and in 2004 he was the co-recipient of the "Best Paper in Geophysics Award (2004)". Recent publications include:

- Gischig, V. S., Giardini, D., Amann, F., Hertrich, M., Krietsch, H., Loew, S., Maurer, H., Villiger, L., Wiemer, S. and Bethmann, F. (2019), Hydraulic stimulation and fluid circulation experiments in underground laboratories: Stepping up the scale towards engineered geothermal systems. *Geomechanics for Energy and the Environment*, 100175.
- Langhammer, L., Grab, M., Bauder, A. and Maurer, H. (2019), Glacier thickness estimations of alpine glaciers using data and modeling constraints. *Cryosphere*, 13, 8, 2189-2202.
- Jordi, C., Doetsch, J., Günther, T., Schmelzbach, C., Maurer, H. and Robertsson, J. (2019), Structural joint inversion on irregular meshes. *Geophysical Journal International*, 220, 3, 1995-2008.
- Church, G., Bauder, A., Grab, M., Rabenstein, L., Singh, S. and Maurer, H. (2019), Detecting and characterising an englacial conduit network within a temperate Swiss glacier using active seismic, ground penetrating radar and borehole analysis. *Annals of Glaciology*, 1-13.