

## Personal Details:

Name: Frank Roth  
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## Education:

January 2002 *Außerplanmäßiger Professor* at Ruhr-University Bochum, Faculty of Geosciences, Germany.  
May 1992 *Privat-Dozent*, i.e. Habilitation at the Institute of Geophysics, Faculty of Geosciences, Ruhr-  
Univ.-Bochum, Germany  
January 1984 *Ph.D.* in Geophysics at the Institute of Geophysics, Kiel University, Germany.  
July 1979 "*Diplom*" (M.Sc.) in Physics, second subject Mathematics, Institute of Experimental Physics,  
Bonn University, Germany.

## Professional History:

1992 to present Leading Scientist at the GeoForschungsZentrum, Potsdam, Germany. Heading a working  
group on the modelling of deformation and stress fields at faults and on logging in deep  
boreholes for tectonic stresses and changes in rock physical parameters.  
1986 to 1992 Hochschulassistent at the Institute of Geophysics, Faculty of Geosciences, Ruhr-Univ.-  
Bochum.  
Aug. 1984 to Project Scientist at the Institute of Geophysics, Kiel University.  
March 1986  
Jan. 1984 to Postdoctoral research fellowship in China, funded by the Max-Planck Society.  
July 1984  
1979 to 1983, Project Scientist at the Institute of Geophysics, Kiel University.  
March 1986

## Publications since 1999:

Richwalski, S. and F. Roth. Elastic and inelastic stress triggering in the South Iceland seismic zone due to  
large earthquakes since 1706. *Tectonophys.*, in press, 2007.

Lorenzo Martín, F., F. Roth, and R. Wang. Elastic and inelastic triggering of earthquakes in the North  
Anatolian Fault zone. *Tectonophys.*, 423 (3-4), 271-289, doi: 10.1016/j.tecto.2006.03.046, 2006.

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- Wang, R., F. Lorenzo Martín, and F. Roth, Computation of deformation induced by earthquakes in a multilayered elastic crust - FORTRAN programs EDGRN / EDCMP, *Computers and Geosciences*, 29 (2), 195-207, 2003.
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- Lorenzo Martín, F., R. Wang, and F. Roth, The effect of input parameters on visco-elastic models of crustal deformation, *Física de la Tierra*, 14, 33-54, 2002.
- Richwalski, S., R. Wang, and F. Roth. A new hybrid method for modelling ground motion, in *Tagungsband zu "Zweites Forum Katastrophenvorsorge"*, Leipzig, 24.-26. September 2001, edited by G. Tetzlaff, T. Trautmann, and K.S. Radtke, p. 306-310. Deutsches Komitee f. Katastrophenvorsorge e.V., Bonn und Leipzig, 2002.
- Roth, F., and P. Fleckenstein, Stress orientations found in NE Germany differ from the West European trend, *Terra Nova*, 13 (4), 289-296, 2001.
- Roth, F., and P. Fleckenstein (2000). Ergebnisse von Bohrloch-Spannungsmessungen in der Südisländischen Seismizitätszone. Proceedings of the 5. Treffen der FKPE-Arbeitsgemeinschaft "Bohrlochgeophysik und Gesteinsphysik", Hannover, Oct. 7. & 8., 1999. Sonderband III/2000 der DGG-Mitteilungen, p. 52-57. (Extended abstract.)
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- Roth, F. (1999). Stress changes in space and time at the South Iceland Seismic Zone - model calculations. Proceedings of the Workshop on Recurrence of Great Interplate Earthquakes and Its Mechanism, Kochi, Shikoku, Jan. 20-21, 1999, Tokyo. Science and Technology Agency, pp. 22-32. (Extended abstract.)
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