

PROFESSOR WILLIAM MENKE  
LAMONT-DOHERTY EARTH OBSERVATORY OF COLUMBIA UNIVERSITY



*Contact Information*

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*Education*

MIT, BS and MS, Earth Science, 1976  
Columbia University, Ph.D., Geophysics, 1982

*Appointments*

Professor, Department of Earth &  
Environmental Sciences, Columbia  
University., 1992-present  
Chairman of the Department., Columbia U.,  
2002-2004

*Research*

Structural seismology of the earth's crust and mantle  
Volcanic processes and especially magma delivery from mantle to crust  
Data analysis techniques including time series analysis, inverse theory and tomography

*Program Development*

Interdisciplinary collaborations for addressing broad earth science problems  
Undergraduate earth science education through a systems approach that emphasizes  
inferences from data  
Methods of enhancing ethnic and gender diversity in academic settings

*Selected Writings*

Menke, *Geophysical Data Analysis: Discrete Inverse Theory* (Textbook), Elsevier 2012  
Menke & Menke, *Environmental Data Analysis with MATLAB* (Textbook), Elsevier 2012  
Menke & Abbott, *Geophysical Theory* (Textbook), Columbia University Press, 1989  
Menke, W. and V. Levin, A strategy to rapidly determine the magnitude of great  
earthquakes, *EOS Trans. AGU* 86, 185-189, 2005

*Awards and Honors*

Presidential Young Investigator, awarded by the National Science Foundation, 1986  
Fellow, awarded by the American Geophysical Union, 1992

*Activities*

Principal Investigator on 40+ federal grants, 1983-present  
Co-developer of *Frontiers of Science* course, Columbia U., 2002-2004  
Team Leader of 15+ seismological field expeditions, 1985-present  
Participant in 5 sea-going oceanographic expeditions, 1978-1999  
Advisor to 20+ graduate students and undergraduate interns  
Volunteer Treasurer of two Non Profit Organizations, 1996-present