

PROFESSOR WILLIAM MENKE, F-AGU
LAMONT-DOHERTY EARTH OBSERVATORY OF COLUMBIA UNIVERSITY

CONTACT

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PROFESSIONAL PREPARATION

Ph.D. 1982, Department of Geological Sciences, Columbia University, Geological Sciences, Thesis title, *Seismological Studies of the P_n Phase* (Prof. P.G. Richards, advisor).

MPhil. 1978, Department of Geological Sciences, Columbia University.

MS, BS 1976, Department of Earth and Planetary Sciences, Massachusetts Institute of Technology

APPOINTMENTS

Professor, Columbia University, 1992-present
Chairman, Department of Earth & Environmental Science, Columbia University, 2002-2004
Deputy Director for Education, Lamont-Doherty Earth Observatory of Columbia University, 2002-2004
Associate Chairman, Department of Earth & Environmental Science, Columbia University, 2000-2002
Associate Director for Seismology, Geology and Tectonophysics, Lamont-Doherty Earth Observatory of Columbia University, 1989-1992
Associate Professor, Columbia University, 1988-1992
Assistant Professor, College of Oceanography, Oregon State University, 1982-1986

AWARDS AND HONORS

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

ACCOMPLISHMENTS

Strategic Planning

Responsible for Department's preparing for, and responding to, **External Academic Review** (2001)
Developed Department's **Five Year Plan for Faculty Hiring**, a strategic plan later approved by the Columbia administration that led to the expansion into new research areas (2002)
Wrote white papers on **Attaining Gender Balance** and **Retirements in Science Departments** which analyzed trends, identified problems and proposed solutions, some of which have been subsequently adopted by the Department (2004)
Developed the Department's **Planning for the Next Capital Campaign** document (2004) used by the University in its ongoing fund-raising efforts. Top priority, a new Geochemistry Building, later realized through gift of Gary Comer.
Participated in development of plan to create LDEO Research Professorships (2006-present)

Supervision

Responsible for a research division of 30 people, including 15 research staff, 10 technical staff and 5 clerical staff (1989-1992)

Responsible for a faculty of 56 professors, 100 graduate students, 20 undergraduate students and 4 administrative staff (2002-2004)

Hiring and Employment (2002-2004, except where noted)

Responsible for appointment of faculty search committees and their compliance to university procedures

Conducted recruitment negotiations with senior recruits

Conducted retention negotiations with faculty with outside offers

Performed annual merit reviews and recommended merit raises for all faculty

Prepared tenure review cases for 6 junior faculty members and advocated their cases before the Vice President, Provost and Ad Hoc Tenure Review Committee. All were tenured.

Oversaw termination of six Biosphere 2 faculty when that facility was shut down by the university (2004)

Participated in development of Departmental **Faculty Diversity Hiring Plan** and acted as its lead presenter (2006)

Participated in the development of a **Diversity Target-of-Opportunity Hiring Plan**, which led to the hiring the Department's first female full professor (2006)

Financial

Responsible for Division/Department budget (1989-1992, 2002-2004)

Solved major faculty funding problem that involving five professors and \$8M (2004)

Co-responsible, with Division Administrator, for administration of all grants and contracts (totaling \$6M per year) of Division (1989-1992)

Co-responsible, with Department Administrator, for administration of all Departmental accounts (\$5M per year) and endowments (totaling about \$23M)

Volunteer treasurer of two local Non Profit Organizations (1995-2004, 2007-present)

Infrastructure

Negotiated successful \$2.5M renovation of **Main Campus Undergraduate Teaching Facility** and oversaw its design and implementation (2005)

Teaching

Co-Developer of *Earth Systems Science*, a three-course sequence required of all Departmental undergraduate majors (2002-2004)

Co-developer of *Frontiers of Science*, a science survey course which is part of the Core Curriculum required of all Columbia College undergraduates (2005)

Instructor of undergraduate courses, including *Frontiers of Science*, *The Solid Earth System*, *Geophysical Theory I and II*, *Introduction to Seismology*, *Environmental Data Analysis*, *Energy Resources*, *Environmental Hazards and Disasters* and *Dynamics of the Earth System*.

Instructor of graduate courses, including *Advanced Seismology*, *Quantitative methods of Data Analysis* and *Seismology Seminar*

Author/co-author of two textbooks, Menke, W. *Geophysical Data Analysis: Discrete Inverse Theory* (Textbook), Academic Press, 1989 and Menke, W. and D. Abbott, *Geophysical Theory* (Textbook), Columbia U. Press, 1989.

Academic advisor to Masters and PhD students, including of Christina Rodriguez, Mike West, Vadim Levin, Ge Hu, Ned Field and Bryndis Brandsdottir.

Research

Principal Investigator on 30+ federal grants, 1983-present

Author and co-author on 90+ peer-reviewed journal articles, 1974-present

Team Leader of 10+ seismological field expeditions, 1985-present

Participant in 5 sea-going oceanographic expeditions, 1978-present