

Hiroo Kanamori: Caltech

Born - 17 October 1936
Japan (Japanese citizen)

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Education:

B. S. (Physics), Tokyo University, 1959
M. S. (Geophysics), Tokyo University, 1961
Ph.D. (Geophysics), Tokyo University, 1964

Professional Experience:

Research Associate, Geophysics Institute, Tokyo
University, 1962-65
Research Fellow, California Institute of Technology, 1965-66
Associate Professor, Earthquake Research Institute, Tokyo
University, 1966-69
Visiting Associate Professor, Massachusetts Institute of
Technology, 1969
Professor, Earthquake Research Institute, Tokyo University,
1970-72
Professor, California Institute of Technology, 1972-89
John E. and Hazel S. Smits Professorship of Geophysics, 1989-
Director, Seismological Laboratory, California Institute of
Technology, 1990-April, 1998

Major Research Interest

Kanamori's research centers on the physics of earthquakes. His work includes: (1) quantification of great earthquakes using M_w scale, (2) quantitative study of tsunami earthquakes, (3) seismological study of volcanic eruptions, (4) real-time seismology for hazard mitigation, (5) study of atmospheric waves excited by volcanic eruptions, (6)

study of interaction between solid earth and atmosphere, (7) frictional melting due to faulting, (8) synthesis of microscopic and macroscopic physics of earthquakes.

Membership

Seismological Society of Japan
American Geophysical Union
Seismological Society of America
Earthquake Engineering Research Institute
American Academy of Arts and Sciences

Awards

Medal of the Seismological Society of America, 1992
Arthur L. Day Prize and Lectureship, U.S. National Academy of Science, 1993
California Scientist of the Year Award, 1993
The Asahi Prize, 1993.
Walter H. Bucher Medal, American Geophysical Union, 1996.

Selected Papers

Kanamori, H., and M. Kikuchi, The 1992 Nicaragua Earthquake: a slow tsunami earthquake associated with subducted sediments, *Nature*, **361**, 714-716, 1993.
Kikuchi, M., and H. Kanamori, The mechanism of the deep Bolivia earthquake of June 9, 1994, *Geophys. Res. Lett.*, **21**, 2341-2344, 1994.
Kanamori, H., T. H. Anderson, and T. H. Heaton, Frictional melting during the rupture of the 1994 Bolivian Earthquake, *Science*, **279**, 839-842, 1998.
Kanamori, H., E. Hauksson, L. K. Hutton, and L. M. Jones, Determination of Earthquake Energy Release and M_L Using TERRAScope, *Bull. Seismol. Soc. Am.*, **83**, 330-346, 1993.
Kanamori, H. and T. H. Heaton, Microscopic and macroscopic physics of earthquakes, accepted for publication in AGU monograph "Physics of Earthquakes", 2000.