

BARBARA ROMANOWICZ - Curriculum Vitae

Married - 2 children (grown!)



Education

- 1970-74 Ecole Normale Supérieure, "Sèvres", Paris, France, major in Pure Mathematics
- 1972 Maîtrise de Mathématiques Pures, Université Paris 6.
- 1973 Agrégation de Mathématiques, Paris, France
- 1975 Master of Science in Applied Physics, Harvard Univ.
- 1975 Doctorat de 3e cycle in Astronomy, Université Paris 6.
- 1979 Doctorat d'Etat, Université Paris 7, Spécialité Géophysique.

Employment

- 1978-79 Attachée de Recherches, C.N.R.S., Institut de Physique du Globe, Paris.
- 1979-81 Post-Doctoral Associate, M.I.T., Cambridge, Mass.
- 1981-86 Chargée de Recherches, C.N.R.S., I. P. G., Paris., Founding Director, GEOSCOPE
- 1986-90 Directeur de Recherches, C.N.R.S., I. P. G., Paris., Director, GEOSCOPE Program
- 1991-2016 Professor of Geophysics, University of California at Berkeley
- 1991-2011 Director, Berkeley Seismological Laboratory (<http://www.seismo.berkeley.edu>)
- 2002-2006 Chair, Department of Earth and Planetary Science, U.C. Berkeley
- 2011-2020 Chaire de Physique de l'Intérieur de la Terre, Collège de France, Paris
- 2016-pres Professor of the Graduate School, University of California at Berkeley
- 2020-pres Professeur Honoraire, Collège de France, Paris

Research Interests

Trained in "pure" mathematics, I became a solid earth geophysicist through a series of chance circumstances, eventually specializing in seismology. My primary research interest is the development of new tomographic methodologies to improve resolution in the imaging of deep earth structure using seismic waves, with application at the global and continental scale, in order to improve our understanding of earth's internal dynamics. I have also worked on earthquake source problems. Another research interest I developed in the last 15 years, following the discovery of the earth's continuous low frequency "hum", present even in the absence of earthquakes, is to help elucidate the coupling processes between the atmosphere/ocean and solid earth that give rise to this phenomenon. Since the mid-1980's, in addition to contributing to the development of data collection infrastructure in geophysics, including global and regional networks of sensors and associated open archives, I have devoted energy to advocate for geophysical instrumentation of the ocean floor, a necessary component for improving illumination of the earth's interior. I also have an interest in planetary science, and was the original PI on the Mars'96 mission which aimed to install a seismometer on Mars, but failed. Four of my former PhD students (2 in France and 2 in the US) are currently involved in the InSight mission which has successfully deployed on Mars.

Selected Organizational and Administrative Responsibilities (last ~15 yrs):

- 2012-2018 PI, NSF/FESD CIDER-II program (Director of CIDER and coordinator, CIDER summer programs, since 2004).
- 2010-2013 Co-Chair (2011) and Chair (2013) Gordon Research Conference on "Interior of the Earth"
- 2012-2014 Member, Conseil d'Etablissement, Collège de France, Paris
- 2012-2014 Chair, Section 16, National Academy of Sciences
- 2013 Member, Search Committee for the President of IRIS
- 2013-2014 Member Holmes Medal Committee, EGU
- 2015 Chair, Review Committee, DTM, Carnegie Institution of Science
- 2015 Member, Review Committee, Department of Earth Sciences, Oxford U
- 2015-pres Member, advisory board of the Max Planck Institute for Solar System Research, Goettingen, Germany

2016 Chair, Seismology Fellows Committee, AGU.
 2016- 2021 Member of the Scientific Council, European Research Council (ERC).
 (2019-pres: chair, ErC-SC' sGender Issues Working Group)
 2016- pres Member, Advisory Committee for EPOS (European Plate Observing System)
 2018- 2020 Member Strategic Advisory Committee, Faculty of Mathematics and Natural
 Sciences, Univ. of Oslo, Norway
 2020- 2024 Member, Advisory Board, Institute of Geophysics, Polish Academy of Sciences
 2021- 2024 Member, Advisory Committee, GEO Directorate, NSF.
 2022-pres Member, Advisory Committee for ISTERRE Department, Univ. of Grenoble, France
 2024-pres Member of the National Academies' Committee on Solid Earth Geophysics (COSEG)
 2024-pres Chair, Advisory Committee for EPOS (European Plate Observing System)

Journal Editorship

1988-1989 Editor, Geophysical Research Letters (AGU Journal)
 1995-2000 Chief Editor, Physics of the Earth and Planetary Interiors.
 2007-2016 Reviewing Editor for the journal "Science"
 2023-pres Associate Editor for the journal PNAS "NEXUS"

Academic Awards and Distinctions:

1989 French Academy of Sciences Prize (Fonds Doistau-Blutet);
 1990 Fellow, American Geophysical Union;
 1992 Silver Medal of the Centre National de la Recherche Scientifique (French NSF);
 1999A. Wegener Medal of the European Union of Geosciences;
 2001 Fellow, American Academy of Arts and Sciences;
 2003 Beno Gutenberg Medal, European Geophysical Society;
 2004 Beno Gutenberg Lecturer, American Geophysical Union;
 2005 Member, National Academy of Sciences;
 2008 Chevalier de la Légion d'Honneur, France;
 2009 Inge Lehmann Medal of the American Geophysical Union;
 2010 Miller Professor, Univ. of California, Berkeley;
 2011 Harry Reid Medal of the Seismological Society of America;
 2013 Martin Meyerson Berkeley Faculty Research Lecturer;
 2013 Elected Member, Académie des Sciences, France;
 2017 Plenary lecture invited speaker at the IASPEI meeting in Kobe (Japan);
 2018 Elected Foreign Member, Polish Academy of Sciences;
 2019 Emil Wiechert Medal of the German Geophysical Society
 2019 Marcus Milling Legendary Geoscientist Medal, AGI
 2019 Award "Wibitny Polak na Swiecie" ("Outstanding Pole in the world")
 2019 Elected Fellow of the IUGG (International Union of Geodesy and Geophysics)
 2019 William Bowie Medal, American Geophysical Union
 2020 Wollaston Medal, Geological Society of London
 2021 Medal of the International Association of Seismology and Physics of the Earth's Interior

BR has supervised ~40 PhD's and 27 post-docs and is the author of 280+ publications