



**Barbara Romanowicz**

**USA**

### **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-pres Chaire de Physique de l'Intérieur de la Terre, Collège de France, Paris  
2016-pres Professor in the Graduate School, University of California at Berkeley

### **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); 1999 A. Wegener Medal of the European Union of Geosciences; 2001 Fellow, American Academy of Arts and Sciences; 2003 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; 2011-2017 Advanced Grantee, European Research Council; 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

### **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 has been 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, with the goal of improving our understanding of the internal circulation that drives plate tectonics on our planet. 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 spent much of my energy advocating for the 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.

### **Service to IUGG/IASPEI**

2000-2003 Member of the IASPEI Bureau  
1990's and 2000's Session Convener, several IASPEI/IUGG meetings  
2019 Session Convener, IUGG General Assembly, Montreal (Canada)

BR has supervised ~30 PhD's and ~20 post-docs and is the author of ~250 publications in peer reviewed journals.