

GEOSCIENTISTS APPOINTED TO THE U.S. NUCLEAR WASTE TECHNICAL REVIEW BOARD

Ewing as Chair



U.S. President Obama appointed Dr. Rodney C. Ewing as chair of the Nuclear Waste Technical Review Board (NWTRB). Dr. Ewing was appointed to the Board in August 2011. He took over the position of chair from Dr. B. John Garrick, who had served as board chair since September 2004. Dr. Rodney C. Ewing is the Edward H. Kraus Distinguished University Professor at the University of

Michigan in Ann Arbor, Michigan. He holds faculty appointments in the departments of Earth and Environmental Sciences, Nuclear Engineering & Radiological Sciences, and Materials Science & Engineering. He is an Emeritus Regents' Professor at the University of New Mexico in Albuquerque, New Mexico.

Four Earth Scientists among Eight New NWTRB Members



Dr. Jean Bahr is a professor in the Department of Geoscience at the University of Wisconsin–Madison. She was president of the Geological Society of America from 2009 to 2010, a member of the National Research Council's Board on Radioactive Waste Management from 1992 to 1997, and faculty codirector of the Women in Science and Engineering Residential Learning

Community at the University of Wisconsin–Madison from 2003 to 2005. Dr. Bahr received a BA in geology and geophysics from Yale University and MS and PhD degrees in applied Earth sciences (hydrogeology) from Stanford University.



Dr. Susan L. Brantley is currently a Distinguished Professor of Geosciences at Pennsylvania State University, a faculty position she has held since 1986. In this capacity she is also the director of the Earth & Environmental Systems Institute. From 2006 to 2008, Dr. Brantley served as the president of the Geochemical Society. From 1980 to 1981, she served as a Fulbright

Scholar in Peru. She was recently elected to the National Academy of Sciences. Dr. Brantley received an AB in chemistry and MA and PhD degrees in geological and geophysical sciences from Princeton University.



Dr. Efi Foufoula-Georgiou is a professor of civil engineering at the University of Minnesota, having joined the university in 1989. She has served as the director of the National Center for Earth-Surface Dynamics at the university since 2008. She has served on the National Center for Atmospheric Research's Science Advisory Board since 2005, and is a member of the American

Geophysical Union, the American Society of Civil Engineers, and the Society of Women Engineers. Dr. Foufoula-Georgiou received a degree in civil engineering from the National Technical University in Athens, Greece, as well as an MS and a PhD in environmental engineering from the University of Florida.



Dr. Mary Lou Zoback is a consulting professor in the Department of Environmental Earth System Science at Stanford University. Previously, she was vice president for Earthquake Risk Applications for Risk Management Solutions in Newark, California, from 2006 to 2011. Dr. Zoback

worked at the U.S. Geological Survey from 1978 to 2006, most recently as a program coordinator for the Northern California Earthquake Hazards Program. In 2000, Dr. Zoback was appointed to the President's Committee on the National Medal of Science, and in 1996 she was elected to the National Academy of Sciences. She served on the National Research Council's Board on Radioactive Waste Management from 1997 to 2000. Dr. Zoback received BS, MS, and PhD degrees in geophysics from Stanford University.

MACARTHUR FOUNDATION FELLOWSHIP TO TERRY PLANK

Each year, the MacArthur Foundation (www.macfound.org) selects between 20 and 30 recipients for its five-year, \$500,000 MacArthur "Genius" Fellowship. Between 1981 and 2012, 873 fellows have been named from a range of disciplines. Past recipients have been writers, scientists, artists, social scientists, humanists, teachers, entrepreneurs, farmers, and fishermen, among many others. This year, geochemist Terry Plank was among the recipients.



Terry Plank received an AB (1985) from Dartmouth College and a PhD (1993) from Columbia University. Since 2008, she has been a professor in the Department of Earth and Environmental Sciences and the Lamont-Doherty Earth Observatory at Columbia University. Her prior affiliations include the University of Kansas (1995–1999) and Boston University (1999–2007).

In her research, she has used volcanoes as windows into the mantle processes that drive melting at subduction and rift zones. In early work, she used trace-element fluxes in subducting sediments to demonstrate recycling of material through the subduction zone and back out arc volcanoes. More recently, she has developed a geochemical thermometer measured in volcanic rocks that reveals the temperature of the subducting plate beneath arc volcanoes, and she has found evidence that temperatures are higher than those predicted in most numerical models. Currently, she is exploring the critical role water plays in the evolution of magmas in the crust, the melting process in the mantle, the water balance on Earth, and ultimately the vigor of explosive eruptions.

In addition to selecting fellows, the John D. and Catherine T. MacArthur Foundation, one of the United States' largest independent foundations, works to defend human rights, advance global conservation and security, make cities better places, and understand how technology is affecting children and society.

QUEEN'S DIAMOND JUBILEE MEDAL TO FRANK C. HAWTHORNE



Frank C. Hawthorne, O.C., Distinguished Professor of Geological Sciences, University of Manitoba, was recently presented with the Queen's Diamond Jubilee Medal by the lieutenant governor of Manitoba, the Honourable Philip S. Lee (left).

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