

Mark T. Peters, Argonne National Laboratory

Mark Peters is the Deputy to the Associate Laboratory Director for Energy Sciences and Engineering at Argonne National Laboratory. Technical responsibilities include the development of new program opportunities, management and integration of the energy and environment related LDRD program, and support of the Global Nuclear Energy Partnership (GNEP) program. His duties also include responsible program management and development in high-level nuclear waste disposal across the Laboratory, management and technical leadership of the Department of Energy (DOE) long-term science and technology work related to radionuclide source terms, and technical support of DOE management on the Yucca Mountain Project (YMP).

Previously, Peters was on a two-year detail to DOE Headquarters as a senior technical advisor to the Director of OCRWM. Prior to that, he was the YMP Science and Engineering Testing Project Manager. He was responsible for the technical management and integration and engineering testing in the laboratory and field on the YMP.

Earlier, Peters was the YMP Office Manager for Thermal Testing and Engineering Support. He was responsible for the technical integration of science, construction, and design organizations and technical leads engaged in field testing at Yucca Mountain.

Before joining the YMP in 1995, Peters had a research fellowship in geochemistry at the California Institute of Technology. His research was in trace-element geochemistry and presented the results at national and international meetings. He has also been published in major scientific journals.

Activities and Achievements

Member of Geological Society of America, American Geophysical Union, Geochemical Society, and Mineralogical Society of America

Member of Geological Society of America Committee on Geology and Public Policy

Member of Sigma Xi, Scientific and Engineering Research Honorary Society

Member of Sigma Gamma Epsilon, Earth Sciences Honorary Society

Published over 60 abstracts and papers in peer review journals and proceedings.

Education

Ph.D. in geophysical sciences, University of Chicago, 1992

B.S. in geology, Auburn University, 1986

Select Publications

Peters, M.T. and Ewing, R.C., 2006, A science-based approach to understanding waste form durability in open and closed nuclear fuel cycles: *Journal of Nuclear Materials* (in press).

Lian, J., Zhang, F.X., Peters, M.T., Wang, L.M., and Ewing, R.C., 2006, Ion beam irradiation of La- and Th-doped $Y_2Ti_2O_7$ titanates: *Journal of Nuclear Materials* (in press).

Kiess, T., Budnitz, R., Duncan, D., Peters, M., Wengle, J., and Williams, J., 2005, OCRWM's inaugural science and technology program for Yucca Mountain: *American Nuclear Society Radwaste Solutions*, May/June Issue, 41-48.

Dyer, J.R. and Peters, M.T., 2004, Progress in permanent geologic disposal of spent nuclear fuel and high-level radioactive waste in the United States: *Journal of Power and Energy*, 218, Part A.