

West Valley Performance Assessment Peer Review Group Summary of Member Qualifications

Dr. Chris Whipple - Dr. Chris Whipple is the Chairperson of the West Valley Performance Assessment Peer Review Group. He is a Principal with ENVIRON International Corporation in Emeryville, CA. He has a Ph.D., M.S., and B.S. in Engineering Science. He's a Member of the National Academy of Engineering and is a Designated National Associate of the National Academies. He chaired and served on the National Academy of Science's Board On Radioactive Waste Management, and he chaired the Peer Review of the Yucca Mountain Total System Performance Assessment. He's a consultant to the U.S. Nuclear Regulatory Commission's Advisory Committee on Nuclear Waste and a consultant to the U.S. Nuclear Waste Technical Review Board. He is a Member of the National Council on Radiation Protection, and a Charter Member; Fellow, and Former President of the Society for Risk Analysis. Dr Whipple has served on a number of national and international review Boards and oversight committees, and he is the author of numerous publications on risk assessment, risk management, and risk communication.

Dr. John Bredehoeft - Dr. Bredehoeft is a Principal with the Hydrodynamics Group, Sausalito, CA. He has a Ph.D. and a M.S. in Geology, and a B.S.E. in Geological Engineering. He established the Hydrodynamics Group (his own consulting firm) in 1995. Prior to that he served with the USGS for 32 years as a geologist and hydrologist in both research and high-level management positions, including Chief of the National Research Program for the Water Resources Division. Dr. Bredehoeft made many contributions to the geosciences and is a pioneer in development and application of groundwater flow and solute transport modeling and well test analyses. He has received many awards and citations throughout his career including the 1997 Robert E. Horton Medal from the American Geophysical Union. He is a Member of the National Academy of Engineering and a Life-Member of the and National Groundwater Association. He served as Editor in Chief of the scientific journal *Ground Water*, and has served on National Academy of Sciences and National Research Council committees, including committees on WIPP and Yucca Mountain. He is also the author of more than 100 papers in the refereed scientific literature.

Dr. Robert Fakundiny - Dr. Fakundiny is the New York State Geologist Emeritus. He has a Ph.D., M.A., B.A. in Geology. He was the New York State Geologist and Chief of the New York State Geological Survey for 26 years before his retirement in 2004. Among other honors, he is a Fellow of the Geological Society of America, the American Association for the Advancement of Science, the New York Academy of Sciences, the Geological Society of Canada, and the Geological Society (London). He is a Past President of the American Institute of Professional Geologists, Past President of the Association of American State Geologists and Past Chair of the North American Commission on Stratigraphic Nomenclature. He authored numerous scientific papers on the structure and tectonics of New York State, and is the author of highly recognized work on the Clarendon-Linden fault system. He has significant experience studying the geology, hydrology, seismology, and geomorphology of the Western New York Nuclear Service Center. He is a member of numerous New York State and Federal agency committees and oversight boards, and is the author of numerous publications and lectures.

Dr. Shlomo Neuman - Dr. Neuman is a Regents' Professor in the Department of Hydrology and Water Resources at the University of Arizona, in Tucson. He has a Ph.D. and a M.S. in Engineering Science, and B.S. in Geology. He is a Member of the National Academy of Engineering, a Fellow of the American Geophysical Union, and a Fellow of the Geological Society of America. He has received numerous awards and citations during his career, including the 2003 Robert E. Horton Medal from the American Geophysical Union. He served as a member of two Expert Elicitation Panels for Yucca Mountain, and served on the Expert Panel on Yucca Mountain Drift Seepage. He has also served on a number of national and international committees and technical oversight boards. Dr. Neuman is the author of over 290 publications, including highly recognized and cited work on fluid flow and solute transport in porous and fractured media, and analysis of flow and transport in heterogeneous media using geostatistical and stochastic analyses.

Dr. John Poston - Dr. Poston is a Professor with the Department of Nuclear Engineering at Texas A&M University, College Station, TX. He has a Ph.D. and M.S. in Nuclear Engineering, and a B.S., in Mathematics. He is a Fellow of the Health Physics Society, the American Nuclear Society, and the American Association for the Advancement of Science. He served as President and Secretary of the Health Physics Society, and he is the recipient of the Health Physics Society's 2005 Robley D. Evans Commemorative Medal. He's a Member of the National Council on Radiation Protection and was awarded lifetime membership to the NCRP for continued and distinguished service to the Council. He serves on the National Academy of Science's Committee on the Transportation of Spent Nuclear Fuel and Nuclear Waste, and he has served on numerous national and international committees and technical oversight boards. He is a pioneer in internal dose assessment and external dosimetry and is the author of books, book chapters, NCRP reports, and more than 50 publications in the technical literature.