



**James Kenneth Mitchell**

Dr. James K. Mitchell is currently a University Distinguished Professor, Emeritus at Virginia Polytechnic Institute and State University in Blacksburg, Virginia and a Consulting Geotechnical Engineer.

Dr. James K. Mitchell received his Bachelor of Civil Engineering Degree from Rensselaer Polytechnic Institute in 1951, Master of Science Degree from the Massachusetts Institute of Technology in 1953, and the Doctor of Science Degree, also from M.I.T., in 1956.

He joined the faculty of the University of California, Berkeley in 1958 and held the Edward G. Cahill and John R. Cahill Chair in the Department of Civil Engineering at the time of his retirement from Berkeley in 1993. He served as Chairman of the Department of Civil Engineering from 1979 through 1984. He was appointed the first Charles E. Via, Jr. Professor in the Via Department of Civil Engineering at Virginia Tech in 1994, University Distinguished Professor in 1996, and University Distinguished Professor, Emeritus, in 1999.

His primary research activities have focused on experimental and analytical studies of soil behavior related to geotechnical problems, admixture stabilization of soils, soil improvement and ground reinforcement, physico-chemical phenomena in soils, the stress-strain time behavior of soils, in-situ measurement of soil properties, and mitigation of ground failure risk during earthquakes. He has authored more than 350 publications, including two editions of the graduate level text and reference, "Fundamentals of Soil Behavior," and several state-of-the-art papers. During the 1960's and early 1970's he served as the NASA Principal Investigator for the Soil Mechanics Experiment, which was a part of Apollo Missions 14-17 to the Moon.

Dr. Mitchell serves as a consultant to numerous governmental and private organizations on geotechnical problems and earthwork projects of many types, especially soil stabilization, ground improvement for seismic risk mitigation, earthwork construction, and environmental geotechnology, both nationally and internationally. Recent and currently active projects include the evaluation of seismic stabilities and design of liquefaction mitigation options for Success Dam and Isabella Dam (U.S. Army Corps of Engineers), the Folsom Project (U.S. Bureau of Reclamation) and San Pablo Dam (East Bay Municipal Water District) in California, Deer Creek Dam in Utah (U.S. Bureau of Reclamation), Tuttle Creek Dam for the Bay Area Rapid Transit System, foundation densification using explosive compaction at Seymour Falls Dam in British Columbia (Klohn-Crippen), and the Advisory Panel for the Craney Island Eastward Expansion and Marine Terminal (Virginia Port Authority). He recently served as a member of the ASCE External Review panel for the Performance Evaluation of Hurricane and Flood Protection Projects in S.E. Louisiana. He is an Honorary Member of ASCE and is a member of the U.S. Academy of Engineering and the Academy of Sciences.