



B I O G R A P H Y

Marianne C. Walck

*Director for Geoscience, Climate and Consequence Effects Center
Sandia National Laboratories*

California Institute of Technology PhD, Geophysics

Dr. Marianne Walck is the Director of the Geoscience, Climate, and Consequence Effects Center at Sandia National Laboratories. She leads an organization of approximately 200 people who provide expertise in earth sciences, infrastructure interdependency, and all-hazards consequence effects management. One area of focus for the center is geoscience basic and applied research, including geochemistry, geophysics, atmospheric sciences, geomechanics, and geohydrology. Applications include carbon management, energy development, the energy/water nexus, water treatment, waste management, underground storage, subsurface and atmospheric modeling, and natural resources management and analysis. Experts in complex systems, decision support and systems dynamics modeling provide high-consequence event analysis, crisis action support, all-hazards restoration and recovery, and system resilience analysis.

Dr. Walck has more than 20 years of technical management experience. Previously, Dr. Walck was Director of the Nuclear Energy and Global Security Technologies Center at Sandia, which addressed a variety of global security issues and the safety and security of the nuclear fuel cycle. In an earlier assignment, she served as Senior Manager for the Nuclear Energy Safety Technologies Group. The Group conducts research and development focused on the risk, reliability, and security of civilian nuclear power and transportation of radioactive materials. In this role, she was responsible for all work conducted at Sandia for the Nuclear Regulatory Commission.

Dr. Walck earned her Ph.D. in geophysics from the California Institute of Technology (Caltech); an M.S. in geophysics, also from Caltech; and an A.B. in geology/physics from Hope College (Holland, Michigan). She is author of more than 45 technical papers and published presentations. She holds memberships in the American Nuclear Society, the American Geophysical Union, the Seismological Society of America, and the Association for Women Geoscientists. Dr. Walck has served on numerous professional committees for national laboratories and professional societies. She volunteers at Sandia Labs as a mentor, in the Albuquerque community with the Regional Science Fair, and as a violinist in a community orchestra.