Biography

Philip Reppert, Ph.D.

Director, Center for Advanced Energy Studies and Idaho University Collaborations, Idaho National Laboratory

Dr. Philip Reppert provides oversight of the partnership between Idaho National Laboratory (INL) and its Idaho university partners in his role as director of the Center for Advanced Energy Studies and Idaho University Collaborations.

Reppert joined INL in 2022. He has a diverse background that crosses several disciplines related to advanced energy studies, both within and outside of government. His research in rock physics and near surface geophysics has helped him develop an extensive collaborative network that includes Department of Defense, Department of Homeland Security, Department of Transportation, U.S. Geological Survey, Department of Energy, industry and academia.

Prior to joining INL, Reppert served as associate director of Geological and Environmental Systems at the National Energy Technology Laboratory. There, he led an organization with laboratories in three states and set the strategic vision for research teams in disciplines that include geospatial science, geophysics, geochemistry, reservoir engineering, computational and data science, machine learning, and image science.

Reppert's experience includes more than a decade with two federal agencies, the National Geospatial-Intelligence Agency and Defense Threat Reduction Agency. At each, he held a number of supervisory positions.

At the National Geospatial-Intelligence Agency, Reppert led a multiagency program to detect and map deep tunnels. He also led the gravity gradiometer program, which developed a mobile land-based gravity gradiometer, and held several leadership positions, including chief of exploratory science and technology in the Innovision directorate, chief

of the Subsurface group in the Research directorate, and chair of the Interagency Geotechnical Assessment Team.

At the Defense Threat Reduction Agency, Reppert oversaw a program that developed an innovative technique for seismic while drilling and worked as a test scientist on the Massive Ordinance Penetrator program and other weapons effects tests. He also held several leadership positions at the agency, including section chief and chair of the Interagency Geotechnical Assessment Team.

His career in industry features research and engineering roles at Applied Research Associates, Pennsylvania Power and Light Company, Bechtel Power Corporation, and Texas Instruments.

Reppert has served as an assistant professor at Clemson University and a visiting scientist at the Earth Resources Laboratory, part of the Massachusetts Institute of Technology (MIT).

He earned a doctorate in geophysics from MIT and a bachelor's degree in electrical engineering from Pennsylvania State University. Reppert holds memberships in the American Geophysical Union and Society of Exploration Geophysicists.

He and his wife have four daughters. They enjoy colt starting and other equestrian activities. In his free time, he enjoys writing family-friendly novels.