

Bio for J. Stephen Binkley

Acting Director, Office of Science
Deputy Director for Science Programs
Department of Energy

J. Stephen (Steve) Binkley is the Deputy Director for Science Programs in the Office of Science (SC) at the U.S. Department of Energy (DOE). In this capacity, Dr. Binkley is the senior career science official in the Office of Science, which is third largest Federal sponsor of basic research in the United States, the primary supporter of the physical sciences in the U.S., and one of the premier science organizations in the world.

As Deputy Director for Science Programs, Dr. Binkley provides scientific and management oversight for the six science programs of the Office of Science (basic energy sciences, biological and environmental research, fusion energy sciences, advanced scientific computing research, high energy physics, and nuclear physics), for workforce development for teachers and scientists, and for construction project assessment. The Office of Science supports research at 300 colleges and universities nationwide, at DOE laboratories, and at other private institutions.

Dr. Binkley has held senior positions at Sandia National Laboratories, the Department of Homeland Security (DHS), and the Department of Energy. He has conducted research in theoretical chemistry, materials science, computer science, applied mathematics, and microelectronics. At Sandia, Dr. Binkley managed computer science, fundamental chemistry, combustion science, and chemically reacting flow organizations. He also has served as the manager for the Office of Science's Combustion Research Facility, at Sandia's Livermore, California location. Dr. Binkley managed Sandia's Office of Science Program, comprising activities in materials science, chemistry, geoscience, magnetic fusion energy, atmospheric measurement technology, and scientific computing at Sandia's New Mexico and California locations. He also managed Sandia's program in distributed information systems technology.

At DOE, Dr. Binkley served as a technical advisor to the Assistant Secretary of Defense Programs (subsequently the Deputy Administrator for Defense Programs after the establishment of the National Nuclear Security Administration). At DHS, Dr. Binkley served as the deputy director for technology within the DHS Operations Directorate, where he led and managed the development of systems for monitoring and disseminating situational awareness to federal, state, and local law-enforcement organizations and for coordinating emergency response activities. Returning to DOE in 2006, Dr. Binkley served as a senior technical advisor to the Under Secretary for Science and the Director of the Office of Science.

As head of SC's Office of Advanced Scientific Computing Research, Dr. Binkley served as one of the Associate Directors for the Office of Science, and was responsible for the overall management of the ASCR program including: strategic planning; budget formulation and execution; project management; program integration with other Office of Science activities and with the DOE technology offices; and interagency integration.

Dr. Binkley's present research interests include high-accuracy determination of properties of atoms and molecules, high-fidelity simulation of complex systems such as combustion devices, and the underlying computer science of massively parallel computers and large-data systems.