



Siegfried S. Hecker

Dr. Hecker is Professor (Research) Emeritus in the Department of Management Science and Engineering, and Senior Fellow Emeritus of the Freeman Spogli Institute for International Studies and the Center for International Security and Cooperation, Stanford University. He is also director emeritus at the Los Alamos National Laboratory/University of California, where he served as director from 1986-1997 and senior fellow until July 2005. He joined the Los Alamos National Laboratory as a technical staff member in 1973, following a postdoctoral assignment there in 1968-1970 and a summer graduate student assignment in 1965. He served as chairman of the Center for Materials Science and division leader of the Materials Science and Technology Division before becoming director. From 1970 to 1973, he was a senior research metallurgist at the General Motors Research Laboratories. Dr. Hecker received his B.S. in metallurgy in 1965 and M.S. in metallurgy in 1967 from Case Institute of Technology and his Ph.D. in metallurgy in 1968 from Case Western Reserve University.

Dr. Hecker's research interests include plutonium science, nuclear weapon policy and international security, nuclear security (including nonproliferation and counter-terrorism), cooperative nuclear threat reduction, and the global future of nuclear energy. His current interests also include the challenges of nuclear India, Pakistan, North Korea, and the nuclear aspirations of Iran. He serves as Advisor to the Board of Directors of the Nuclear Threat Initiative and on the Advisory Council of the U.S. Civilian Research & Development Foundation.

Over the past two decades, he has fostered cooperation with the Russian and Chinese nuclear laboratories to enhance safety and security of their nuclear assets. Dr. Hecker is the editor of *Doomed to Cooperate* (2016), two volumes documenting the history of Russian-U.S. laboratory-to-laboratory cooperation since 1992.

Dr. Hecker is a member of the National Academy of Engineering, Foreign Member of the Russian Academy of Sciences and the India Institute of Metals, Fellow of the American Physical Society, Fellow of the TMS (Minerals, Metallurgy and Materials Society), Fellow of the American Society for Metals, Honorary Member of the American Ceramics Society, Fellow of the American Academy of Arts and Sciences and Fellow of the American Association for the Advancement of Science. Among other awards, Dr. Hecker received the 2018 American Association of Engineering Societies National Engineering Award, the TMS-AIME Honorary Membership Award, the ASM International Honorary Membership Award. He presented the Oak Ridge National Laboratory Eugene P. Wigner Distinguished Lecture (2015) and the Florida State University Nevill Mott Lecture (2013), received the Office of the Secretary of Defense Medal for Exceptional Public Service (2014), National Academy of Engineering Arthur M. Bueche Award (2014),

American Academy of Arts and Science Award for Science Diplomacy (2014), Leo Szilard Lectureship Award, American Physical Society (2011), Eugene L. Grant Undergraduate Teaching Award at Stanford University (2010), Materials Research Society Plenary Lecture (2010), Enrico Fermi Award (2009), Los Alamos National Laboratory Medal (2009), American Nuclear Society Seaborg Medal (2004), Acta Materialia J. Herbert Hollomon Award (2004), Case Western Reserve University Alumni Association Gold Medal (2004) and Undergraduate Distinguished Alumni Award (2001), American Ceramic Society Frontiers of Science and Society Rustum Roy Lecture (2002), ASM International, Rocky Mountain Chapter Charles S. Barrett Silver Medal (2001), New Mexico Distinguished Public Service Award, (1998); was named Laboratory Director of the Year by the Federal Laboratory Consortium, (1998); received an honorary Doctor of Science degree (Honoris Causa) from Colorado School of Mines (2006) and Case Western Reserve University (1998); received the Department of Energy's Distinguished Associate Award, (1997); University of California's President's Medal, (1997); ASM Distinguished Life Membership Award, (1997); an Honorary Degree of Scientiae Doctoris, Ripon College (1997); Navy League New York Council Roosevelt Gold Medal for Science (1996); Aviation Week Group Laurels Award for National Security (1995); James O. Douglas Gold Medal Award (1990); ASM International's Distinguished Lectureship in Materials and Society, (1989); Kent Van Horn Distinguished Alumnus Award, Case Western Reserve University (1989); Honorary Degree of Scientiae Doctoris, College of Santa Fe, (1988); Year's Top 100 Innovations Award from Science Digest (1985); Department of Energy's E. O. Lawrence Award, (1984); American Society for Metals, Marcus A. Grossman Young Author Award (1976); and Wesley P. Sykes Outstanding Metallurgist Award, Case Institute of Technology (1965). He is also a member of the Council on Foreign Relations, Pacific Council, Tau Beta Pi Honorary Engineering Fraternity, Alpha Sigma Mu Honorary Metallurgical Fraternity, and the Society of Sigma Xi. He previously served on the Board of Regents of the University of New Mexico and the Board of the Carrie Tingley Hospital.