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### **Women in Plasma Physics**

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Dr. Kathleen Alexander, a member of the Senior Executive Service, is the Assistant Deputy Administrator for Research, Development, Test, and Evaluation for the National Nuclear Security Administration's (NNSA) Office of Defense Programs. Previously she was the Director of Interagency Work for the NNSA, at the Department of Energy. In that position, she oversaw work with other agencies, technology transfer and other cooperative work agreements. She also served as the sponsor of the Defense Programs Science Council, and Executive Secretary for the Mission Executive Council - a four-part agreement between Departments of Defense, Energy, Homeland Security, and the Office of the Director of National Security. Prior to that position, she was on assignment from Los Alamos National Laboratory (LANL), as Senior Advisor to Dr. Steven Koonin, the Under Secretary of Science for the Department of Energy. Kathleen was at LANL for over 13 years. At Los Alamos, she held nuclear weapons program management positions as well as several division-level management positions in Materials Science & Technology, Applied Physics, and Hydrodynamic Experiments Divisions. Nuclear weapons programmatic management positions included: Hydrodynamic Testing, Pit Certification, Dynamic Materials Properties, Advanced Radiography, Enhanced Surveillance and Dynamic Plutonium Experiments. From July 2009 to December 2010, she was a technical advisor in the Office of Defense Sciences of the NNSA. Prior to joining Los Alamos, Kathleen was at Oak Ridge National Laboratory for over 11 years. She was the group leader of the Microscopy and Microanalytical Sciences Group. Prior to being named Group Leader, she was a technical staff member performing high-resolution imaging and analytical electron microscopy studies of metals and ceramics. Kathleen obtained her Ph.D. from Carnegie Mellon University in Metallurgical Engineering and Materials Science, after receiving her B.S. and M.S. in Metallurgy and Materials Science from Carnegie Mellon University. Kathleen performed postdoctoral research as a NATO Postdoctoral Fellow at Cambridge University, Cambridge, UK. Kathleen was named a Fellow of ASM International in 1996 and the American Ceramic Society in 2001. In 1997, the U.S. Jr. Chamber of Commerce named her one of Ten Outstanding Young Americans. Kathleen has also been awarded multiple Defense Programs Awards of Excellence (team awards). She has served on the American Society for Metals International Board of Trustees (2000-2003) and was the elected Treasurer of the Microscopy Society of America (1998-2004). Kathleen has over 100 peer-reviewed publications in archival journals and conference proceedings, with over 1300 citations. She also has two patents as well as a technology transfer and licensing support award (1993). She became a member of the federal Senior Executive Service in 2011.