

# THE NATIONAL ACADEMIES

*Advisers to the Nation on Science, Engineering, and Medicine*

Committee on International Security and Arms Control

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## **A Joint National Academies' – Russian Academy of Sciences Project on**

### ***The Future of the Nuclear Security Environment in 2015***

#### **National Academies' Committee Members**

**Rose Gottemoeller**, committee chair, became Director of the Carnegie Moscow Center in January 2006. She was previously a Senior Associate at the Carnegie Endowment for International Peace, specializing in arms control, nonproliferation and nuclear security issues. From 1998 to 2000, she served in the Department of Energy as Assistant Secretary for Nonproliferation and National Security and then as Deputy Under-secretary for Defense Nuclear Nonproliferation. From 1993 to 1994, she was Director for Russia, Ukraine, and Eurasia Affairs on the National Security Council in the White House.

**Linton F. Brooks** served until January 2007 as Administrator of the U.S. Department of Energy's National Nuclear Security Administration, where he was responsible for the U.S. nuclear weapons program and for the Department of Energy's international nuclear nonproliferation programs. Ambassador Brooks has over four decades of experience in national security, including service as Assistant Director of the Arms Control and Disarmament Agency, Chief U.S. Negotiator for the Strategic Arms Reduction Treaty, Director of Arms Control on the National Security Council staff and a number of Navy and Defense Department assignments as a 30 year career naval officer.

**Mona Dreicer** has 30 years of experience in various nuclear related fields: international security, nonproliferation, and arms control (e.g. CTBT/IMS, TTBT, FMCT, AMEC, NPT/IAEA); radiation dose and dose reconstruction (e.g. U.S. I-131 doses from NTS weapons tests, the aftermath of Chernobyl, SRS tritium releases); health and environmental risk assessment for the nuclear fuel cycle in Europe; and environmental/nuclear safety. Dr. Dreicer has worked for the USG, IAEA, three different national laboratories, (Los Alamos National Laboratory, Livermore National Laboratory (LLNL) and the Environmental Measurements Laboratory), a French nonprofit research organization (CEPN), and as a private consultant. As Director of the Office of Nuclear Affairs at the U.S. Department of State, her office was responsible for assessing compliance of nuclear arms control treaties and worked to ensure effective verification of nonproliferation agreements and U.S.-Russia nuclear materials programs. Since 2003, she has

been a Deputy Division Leader at Lawrence Livermore National Laboratory overseeing nonproliferation and international global nuclear materials management programs.

**James Fuller** is an Affiliate Professor in the Henry M. Jackson School of International Studies at the University of Washington in Seattle. He is also a member of its Visiting Committee. For many years, until his retirement in 2003, he was the Director of Defense Nuclear Nonproliferation Programs at the Pacific Northwest National Laboratory in Richland; he remains a technical consultant for nuclear nonproliferation programs there and for other U.S. Government agencies. He holds a Ph.D in nuclear science, specializing in plasma physics, from the University of Florida. He is credited with developing and demonstrating the first nuclear driven laser. He has served in the US Government as a national lab scientist in many capacities over the past 20-plus years, in endeavors related to nuclear weapons material control and nuclear warhead dismantlement monitoring. Some relevant examples of this service include being the Executive Secretary in the first Bush Administration of the President's Committee on Fissile Material Control and Nuclear Warhead Monitoring, Scientific Peer Review Group Chairman of the NNSA Warhead Radiation Signatures Campaign, and Chairman of the NNSA Information Barrier Advisory Group – a group whose task it was to develop minimally intrusive equipment to monitor sensitive nuclear materials and nuclear warheads on a bilateral or multilateral basis with other nuclear states. He currently remains heavily involved in the US-Russian Warhead Safety and Security Exchange (WSSX) Agreement.

**Richard W. Mies** (Admiral USN, retired) is the President and CEO of Hicks and Associates, Inc., a wholly owned subsidiary of Science Applications International Corporation (SAIC). Admiral Mies joined SAIC after retiring from the U.S. Navy in February 2002, at the rank of Admiral. During his military career, Admiral Mies served as Commander in Chief, United States Strategic Command, and in a number of staff positions. He is one of only a few flag officers to complete qualifications as both a submariner and naval aviation observer. His many service decorations include the Defense Distinguished Service Medal, Navy Distinguished Service Medal, Defense Superior Service Medal (two awards), Legion of Merit (four awards), and National Intelligence Distinguished Service Medal. Admiral Mies graduated from the U.S. Naval Academy with a B.S., majoring in mechanical engineering and mathematics, and completed post-graduate education at England's Oxford University, the Fletcher School of Law and Diplomacy, and Harvard University. He holds a Masters degree in government administration and international relations and an Honorary Doctorate of Law degree from the University of Nebraska.

**Cherry Murray** is deputy director for science and technology at Lawrence Livermore National Laboratory. Prior to this appointment, she was physical sciences research senior vice president, Bell Laboratories, Lucent Technologies. Dr. Murray has been recognized for her work in surface physics, light scattering, and complex fluids; she is best known for her work on imaging in phase transitions of colloidal systems. After receiving a B.S. and Ph.D. in physics from the Massachusetts Institute of Technology, she joined Bell Laboratories as a member of the technical staff in 1978. She has numerous publications and two patents to her credit. She was chair of the New Jersey Nanotechnology Consortium, a wholly owned subsidiary of Lucent managed by Bell Laboratories to promote research in nanotechnology as part of the economic development of New Jersey. Dr. Murray is a member of the National Academy of Engineering, the National

Academy of Sciences, and the American Academy of Arts and Sciences. She is a fellow of the American Physical Society (APS) and the American Association for the Advancement of Sciences and a member of numerous advisory committees and boards.

**M. Teresa Olascoaga** currently leads the Cooperative International Programs (CIP) Group, one of two international Security Center (ISC) groups. She is also the former Deputy Director of the SC. She manages a broad spectrum of programs focused on nuclear and biological nonproliferation, nuclear materials management, regional security, and arms control, and leads the six (6) CIP departments. Terri has 10 years experience managing and leading US nuclear security programs and strategic initiatives, particularly those with Russia, including DOE/NNSA's material Protection, Control, and Accounting (MPC&A) Program. She also has over 15 years of domestic and international experience in managing and performing security system design, evaluation, technology/policy support and training for various applications including DOE, DOD, NRC, IAEA and NATO nuclear security, and for commercial aviation security in the US. Terri holds a B.S. degree in Mathematics from New Mexico State University, and an M.S. in Industrial Engineering from Columbia University.