

## About the Authors

**Steven P. Andreasen** served as Director of Defense Policy and Arms Control on the National Security Council during the Clinton administration and in the Department of State during the George H. W. Bush and Reagan administrations. He is a national security consultant and lectures at the Hubert H. Humphrey Institute of Public Affairs.

**Bruce G. Blair** is the founding president of the World Security Institute and the executive producer of the weekly PBS series *Foreign Exchange*. He was a Senior Fellow at the Brookings Institution (1987–2000), project director at the Congressional Office of Technology Assessment (1982–1985), and a Minuteman ICBM launch control officer (1970–1974). He has taught at Yale and Princeton and has testified frequently before Congress. He received a MacArthur Fellowship for his work and leadership on de-alerting nuclear forces. He holds a Ph.D. in operations research from Yale.

**Matthew Bunn** is a Senior Research Associate for the Project on Managing the Atom at the Belfer Center for Science and International Affairs, Kennedy School of Government, Harvard University. He is a former adviser for the White House Office of Science and Technology Policy and a former study director for the National Academy of Sciences. Dr. Bunn is a former editor of *Arms Control Today*.

**Sidney D. Drell** is a professor of physics, emeritus, at the Stanford Linear Accelerator Center. He is also a Senior Fellow at Stanford University's Hoover Institution. He has been an adviser to the U.S.

government on technical national security and arms control issues, most recently as a member of the President's Foreign Intelligence Advisory Board. He currently serves on the Boards of Governors that manage the Lawrence Livermore National Laboratory and the Los Alamos National Laboratory, and he is an active member of JASON, a group of academic scientists who work on issues of national importance for the U.S. government.

**Robert Einhorn** is a Senior Adviser at the Center for Strategic and International Studies. He served for 29 years in the U.S. Department of State, including as Assistant Secretary for Nonproliferation from 1999 to 2001.

**James E. Goodby** is Research Fellow at the Hoover Institution where he works with former Secretary of State George P. Shultz and Dr. Sidney Drell on the project which is the theme of this book. During his Foreign Service career he was involved as a negotiator or as a policy adviser in the creation of the International Atomic Energy Agency, the negotiation of the limited nuclear test ban treaty, START, the Conference on Disarmament in Europe, and cooperative threat reduction (the Nunn-Lugar program). He was Ambassador to Finland in 1980–1981. He has taught at Stanford, Syracuse, and Georgetown Universities and is a Distinguished Service Professor Emeritus at Carnegie Mellon University. He is a nonresident Senior Fellow at the Brookings Institution.

**Rose Gottemoeller** has been Director of the Carnegie Moscow Center since January 2006. Prior to that time, she was a Senior Associate at the Carnegie Endowment in Washington. From 1997 to 2000, she served in the Department of Energy as Assistant Secretary for Nonproliferation and National Security, and later as Deputy Undersecretary. From 1993 to 1994, she served on the National Security Council as a director responsible for denuclearization in Ukraine, Kazakhstan, and Belarus.

**David Holloway** is the Raymond A. Spruance Professor in International History, a professor of history and political science, and a Senior Fellow at the Freeman Spogli Institute for International Studies at Stanford University.

**Edward Ifft**, a retired member of the Senior Executive Service, has a Ph.D. in physics and is currently adjunct professor in the Security Studies Program at Georgetown University. His primary career was at the Department of State, where he served on the U.S. delegations that negotiated the SALT, START, and CTB treaties. He was also Deputy Director of the On-Site Inspection Agency and Senior Adviser to the Defense Threat Reduction Agency.

**Raymond Jeanloz** is a professor of geophysics at the University of California at Berkeley and chairs the U.S. National Academy of Sciences' Committee on International Security and Arms Control. He has been an adviser to the U.S. government and the University of California in areas related to national and international security as well as on issues concerning earth and environmental sciences and resources.

**Raymond J. Juzaitis** is currently head of the Department of Nuclear Engineering at Texas A&M University. In his earlier 28-year career at the DOE/NNSA National Laboratories, he served as Associate Director for Weapons Physics at Los Alamos National Laboratory and Associate Director for Nonproliferation, Homeland, and International Security at Lawrence Livermore National Laboratory. He holds a BSE in chemical engineering from Princeton University and a Ph.D. in nuclear engineering from the University of Virginia.

**Max M. Kampelman** was head of the U.S. delegation to the Conference on Security and Cooperation in Europe from 1980 to 1983 and Ambassador and Head of the U.S. delegation to the negotiations with the Soviet Union on nuclear and space arms in Geneva from 1985 to 1989. He served as Counselor to the Department of State from 1987 to 1989.

**Jack F. Matlock Jr.**, a retired diplomat, has held academic posts since 1991 at Columbia University (1991–1996 and 2007), the Institute for Advanced Study (1996–2001), Princeton University (2001–2004), Hamilton College (2006), and Mount Holyoke College (2007). He served as Ambassador to the Soviet Union, Special Assistant to the President, and Ambassador to Czechoslovakia. He is the author of *Reagan and Gorbachev: How the Cold War Ended* (2004); *Autopsy on an Empire* (1995); and a handbook to Stalin's *Collected Words* (1955, second edition, 1971).

**John E. McLaughlin** is a Senior Fellow at the Johns Hopkins School of Advanced International Studies. He served as Deputy Director and subsequently as Acting Director of the Central Intelligence Agency from 2000 to 2004.

**Henry S. Rowen**, a Senior Fellow at the Hoover Institution, is a professor of public policy and management emeritus at Stanford University's Graduate School of Business. He is also a member of the Asia/Pacific Research Center and is a Senior Fellow at the Freeman Spogli Institute for International Studies, both at Stanford. He was Assistant Secretary of Defense for International Security Affairs in the U.S. Department of Defense from 1989 to 1991, and was chairman of the National Intelligence Council from 1981 to 1983. From 2001–2004 he served on the Secretary of Defense Policy Advisory Board. In 2004–2005, he served on the Presidential Commission on the Intelligence of the United States Regarding Weapons of Mass Destruction.

**George P. Shultz** served as a senior staff economist on President Eisenhower's Council of Economic Advisers. He taught at MIT and the University of Chicago, where he served as dean of the Graduate School of Business. He resumed public service under President Nixon as Secretary of Labor, Director of the Office of Management and Budget, and Secretary of the Treasury. Mr. Shultz left government service in 1974 to become president and director of Bechtel Group,

Inc. and a part-time professor at Stanford University. Mr. Shultz held two key positions in President Reagan's administration: Chairman of the President's Economic Policy Advisory Board (1981–1982) and Secretary of State (1982–1989). His many awards include the Medal of Freedom, the nation's highest civilian honor, and the Seoul Peace Prize. He is the Thomas W. and Susan B. Ford Distinguished Fellow at the Hoover Institution, Stanford University.

**James Timbie** has been the Senior Adviser to the Under Secretary for Arms Control and International Security for the Department of State since 1983. From 1971 to 1983, he served as Senior Official of the Arms Control and Disarmament Agency. Mr. Timbie was a graduate student in physics at Stanford University from 1966 to 1971.