

**GW Boot Camp on
Nuclear Security Policy**

2021 GW Nuclear Security Policy Boot Camp Speakers

Nobumasa Akiyama



Dr. Nobumasa Akiyama is Professor at the School of International and Public Policy and the Graduate School of Law at Hitotsubashi University. He is also an Adjunct Research Fellow at Japan Institute of International Affairs. Before being appointed to his current position, he served as Minister-Counsellor at the Permanent Mission of Japan to the International Organizations in Vienna and Special Advisor to Ambassador on Nuclear Security from April 2016 to March 2018 when he was on loan to the Ministry of Foreign Affairs of Japan. His other professional appointments include a member of the Public Security Examination Commission of the Government of Japan, a member of the Eminent Persons Group for the Substantive Advancement of Nuclear Disarmament, a Foreign Minister's consultative group, and Advisor to the Japanese delegation to the NPT Review Conferences since 2000. Recent publications include: "AI Nuclear Winter or AI That Saves Humanity? AI and Nuclear Deterrence," Joachim

von Braun, Margaret S. Archer, Gregory M. Reichberg, Marcelo Sanchez-Sorondo, eds, *Robotics, AI, and Humanity* (Springer, 2021); "Atoms for Alliance Challenges: Japan in the liberal international nuclear order," Yoichi Funabashi and G. John Ikenberry, eds., *The Crisis of Liberal Internationalism: Japan and the World Order*, (Washington, DC, Brookings Institution Press, 2020); and "Japan's Nuclear Disarmament Dilemma," Gorge P. Schultz and James Goodby, eds., *The War That Must Never Be Fought* (Stanford, the Hoover Institution, 2015)\

William Alberque



William Alberque is a Nonresident Fellow at the Henry L. Stimson Center, focusing on nuclear non-proliferation, arms control, and other international security issues. Mr. Alberque has worked on arms control, non-proliferation, and safeguards since 1994. He began as a safeguards analyst with the Department of Energy before his reassignment to the new Material Protection, Control, and Accounting team, tasked with improving the security of highly enriched uranium and plutonium across the former Soviet Union. He managed security upgrades at eight Russian facilities and supported Projects Sapphire and Auburn Endeavor in Kazakhstan and Georgia, respectively. He performed consulting with nuclear reactor operators on security and safeguards before joining the Defense Threat Reduction Agency in 2000. At DTRA, he worked in strategic planning and communication, as well as WMD consequence management, before focusing on conventional arms control and small arms and light weapons

full-time. In January 2008, DTRA detailed him to the Pentagon as the Treaty Manager for conventional arms control. In January 2009, he moved to the Department of State to support preparations for the 2010

Nuclear Non-Proliferation Treaty Review Conference before joining the Office of the Secretary of Defense for Policy in October 2009. There, he directed European security and conventional arms control policy, supported U.S.-Russia defense relations and strategic stability talks, and managed policy on the Biological Weapons Convention, the Comprehensive Test Ban Treaty, and the IAEA Additional Protocol. He most recently served as the Director of the Arms Control, Disarmament, and WMD Non-Proliferation Centre in NATO's Political Affairs and Security Policy Division, and has worked at NATO from August 2012 to December 2020.

He has a Bachelor's degree from Washington and Lee University and studied public policy at Johns Hopkins University. He has written a number of articles on non-proliferation, including pieces on the NATO-Russia relationship, the Nuclear Non-Proliferation Treaty negotiations, and the small arms light weapons problem in Africa.

Philipp C. Bleek



Philipp C. Bleek is Associate Professor in the Nonproliferation and Terrorism Studies Program, Fellow at the James Martin Center for Nonproliferation Studies, and Coordinator of the Cyber Collaborative, all at the Middlebury Institute of International Studies at Monterey. He works on the causes, consequences, and amelioration of chemical, biological, radiological, and nuclear weapons threats at the intersection of academia, non-governmental organizations, and government. He previously served as Senior Advisor to the Assistant Secretary of Defense for Nuclear, Chemical and Biological Defense Programs, where among other activities he staffed the Pentagon-based, interagency Syria Chemical Weapons Senior Integration Group. He has been a fellow at the Belfer Center at the Harvard Kennedy School, Council on Foreign Relations, Center for Strategic and International Studies, the Center for a New American Security, among others.

Matthew Bunn



Matthew Bunn is the James R. Schlesinger Professor of the Practice of Energy, National Security, and Foreign Policy at the Harvard Kennedy School. His research interests include nuclear theft and terrorism; nuclear proliferation and measures to control it; the future of nuclear energy and its fuel cycle; and innovation in energy technologies. Before coming to Harvard, Bunn served as an adviser to the White House Office of Science and Technology Policy, as a study director at the National Academy of Sciences, and as editor of *Arms Control Today*. He is the author or co-author of more than 25 books or major technical reports (most recently *Revitalizing Nuclear Security in an Era of Uncertainty*), and over 150 articles in publications ranging from *Science* to *The Washington Post*.

Chris Cahill



Christopher Cahill is an expert in solid-state and materials chemistry with a particular emphasis on X-ray crystallography. He has published over 120 peer reviewed papers in a range of areas related to the synthesis and structural characterization of materials and minerals. Current research areas include exploring the behavior of uranium species under environmentally relevant conditions as well as the synthesis of lanthanide containing sensor materials. More recent efforts include nuclear science curriculum development for non-technical individuals within the energy and weapons proliferation arenas.

Professor Cahill earned a BS in Chemistry and Geochemistry from the State University of New York (SUNY) at Fredonia (1993) and a PhD in Chemistry from SUNY-Stony Brook (1999). He joined the faculty of GWU in 2000 after

a one-year post-doctoral position in the Environmental Mineralogy group at the University of Notre Dame. He is a recipient of the prestigious NSF CAREER Award (2004), a Bender Teaching Award (2005), a Fulbright Scholarship (2008) and the Oscar and Shoshanna Trachtenberg Prize for Excellence in Teaching (2013). He is a past member of the US National Committee for Crystallography, a Past President of the American Crystallographic Association and has held visiting researcher positions at the Carnegie Institution of Washington and Argonne National Laboratory. Most recently, he served as the American Institute of Physics State Department Science Fellow in the Bureau of International Security and Nonproliferation's Office of Weapons of Mass Destruction-Terrorism on the Nuclear Forensics Team.

Zachary S. Davis



Dr. Zachary S. Davis is a Senior Fellow at the Center for Global Security Research at Lawrence Livermore National Laboratory and a Research Professor at the Naval Postgraduate School in Monterey, California, where he teaches courses on counterproliferation. He has broad experience in intelligence and national security policy and has held senior positions in the executive and legislative branches of the U.S. government. His regional focus is South Asia.

Davis began his career at the Congressional Research Service at the Library of Congress and has served with the State Department, Congressional committees, and the National Security Council. Davis was group leader for proliferation networks in LLNL's Z Program and in 2007 he was Senior Advisor at the National Counter Proliferation Center, in the office of the Director of National Intelligence.

He is the author of numerous government studies and reports on technical and regional proliferation issues. He currently leads a project on the national security implications of advanced technologies, focusing on special operations forces.

Davis's scholarly publications include articles in *Orbis*, *Asian Survey*, *Arms Control Today*, *Security Studies*, *The American Interest*, and chapters in numerous edited volumes. He was editor of the widely read 1993 book *The Proliferation Puzzle: Why States Proliferate and What Results*. His edited book on the 2002 South Asia crisis, *The India-Pakistan Military Standoff*, was published by Palgrave Macmillan. He is the editor of several recent books on emerging technology: *Strategic Latency and World Power: How Technology is Changing our Concepts of Security*; *Strategic Latency Red, White and Blue: Managing the National and International Security Consequences of Disruptive Technologies*; and *Strategic Latency Unleashed: Emerging Technology for Special Operations Forces*. Davis holds a doctorate and masters in international relations from the University of Virginia and an undergraduate degree in politics from the University of California at Santa Cruz.

Dr. Davis enjoys surfing and tai chi.

Lynn Eden



Lynn Eden is a senior research scholar (emeritus), at Stanford University. Her Ph.D. is in sociology from the University of Michigan; she works at the intersections of history, sociology, and political science. From 1990 to 2016 Eden was senior research scholar at the Center for International Security & Cooperation (CISAC) in the Freeman Spogli Institute for International Studies at Stanford. From 2002 to 2016 she was also the associate director for research at CISAC (except for 2008-2009 when she was acting co-director). Previously Eden taught in the history department at Carnegie Mellon University.

Lynn Eden has written on U.S politics, nuclear arms control—including deep reductions, and U.S. foreign and military policy. Her first book, *Crisis in Watertown*, written when she was an undergraduate (University of Michigan Press, 1973), was a finalist for a National Book Award. Her book *Whole World on Fire: Organizations, Knowledge, and Nuclear Weapons Devastation* (Cornell University Press, 2004) won the American Sociological Association's 2004 Robert K. Merton award for best book in science and technology studies.

Eden also ghosted a book on the 1964 Klan murders of civil rights workers Schwerner, Cheney, and Goodman in Philadelphia, Mississippi; and she has co-edited two books on U.S. military, arms control, and nuclear policy. Using historical documents and personal interviews, Lynn Eden is currently writing about how analytical organizational routines, narratives of deterrence, and humor make it possible for highly ethical U.S. military officers to develop operational plans to prevail in nuclear war.

Anna Erickson



Anna Erickson is a leader of Advanced Laboratory for Nuclear Nonproliferation and Safety and an assistant professor of Nuclear & Radiological Engineering in the Woodruff School of Mechanical Engineering at Georgia Tech. She received her MS and PhD from Massachusetts Institute of Technology, where she was a NNSA's Stewardship Science Graduate Fellow. Prior to her position at Georgia Tech, she was a postdoctoral researcher at the Advanced Detectors Group at Lawrence Livermore National Laboratory. Dr. Erickson's research focuses on advanced nuclear reactor design and nuclear security and nonproliferation, connected by the current need for proliferation-resistant nuclear power. Her group is involved in large-array imaging applications for homeland security, antineutrino detection and nuclearized robotics for safety and security applications.

Steve Fetter



Steve Fetter is a professor in the University of Maryland School of Public Policy; he has served as dean of School and is currently dean of the Graduate School. He is a member of the National Academy of Sciences Committee on International Security and Arms Control and has served on committees to assess the future of U.S. nuclear weapons policy, monitoring of nuclear weapons and nuclear materials, effects of nuclear earth-penetrating warheads, internationalization of the nuclear fuel cycle, conventional prompt global strike, geo-engineering, ballistic missile defense, and nuclear forensics. He has taken leave from Maryland several times to work in government, including the departments of State and Defense and the White House Office of Science and Technology Policy, and has been a consultant to several other agencies and a member of the Director of National Intelligence's

Intelligence Science Board and the Department of Energy's Nuclear Energy Advisory Committee. He is a fellow of the American Physical Society and a recipient of the APS Burton Forum and Szilard Lectureship awards, the Federation of American Scientists' Hans Bethe award, and the Secretary of Defense Medal for Outstanding Public Service. He is a member of the Union of Concerned Scientists board of directors, the Bulletin of the Atomic Scientists Science and Security Board, and the board of editors of Science and Global Security. Fetter received a PhD from UC Berkeley and a SB in physics from MIT.

Anya Fink, Ph.D.



Anya Loukianova Fink is a research analyst with CNA's Adversary Analytics team, where she is a member of the Russia Studies Program. Her research focuses on Russian strategy and approaches to deterrence, Russian military thought, and nuclear weapons issues.

Prior to joining CNA, Fink spent a year as a fellow focused on national security and nuclear policy in the U.S. Senate. She was also a postdoc at the RAND Corporation, where her research focused on Russian military writings about conflict escalation. She also previously worked as a program officer in nuclear materials security at the Stanley Foundation and as a research associate focused on nuclear and missile proliferation issues in Russia and Eurasia at the James Martin Center for

Nonproliferation Studies.

Fink holds a PhD in international security and economic policy from the School of Public Policy at the University of Maryland, College Park and an MPA from the Graduate School of Public and International Affairs at the University of Pittsburgh. She has native fluency in Russian.

Eric Gomez



Eric Gomez is director of defense policy studies at the Cato Institute. His research focuses on the U.S. military budget and force posture, as well as arms control and nuclear stability issues in East Asia.

In 2020, Gomez was a member of the Project on Nuclear Issues Nuclear Scholars Initiative program, where he conducted research on the impacts of U.S. intermediate-range missiles on U.S.-China strategic stability. He also participated in the 2019 Strategic Force Analysis Boot Camp hosted by Georgetown University and Sandia National Laboratories.

Gomez is the coeditor, with Caroline Dorminey, of *America's Nuclear Crossroads: A Forward- Looking Anthology*. Released by the Cato Institute in July 2019, the anthology examines a wide variety of pressing issues in nuclear deterrence and arms control confronting U.S. policymakers at the dawn of a new era of great power competition. Gomez received a BA in international relations from the State University of New York–College at Geneseo and an MA in international affairs from the Bush School of Government and Public Service at Texas A&M University.

Rose Gottemoeller



Rose Gottemoeller is the Payne Distinguished Lecturer at Stanford University's Freeman Spogli Institute for International Studies and its Center for International Security and Cooperation. Before joining Stanford, Gottemoeller was Deputy Secretary General of NATO from 2016-19. Prior to NATO, she served in the U.S. State Department as Under Secretary for Arms Control and International Security at the U.S. Department of State. In 2009-10, she was the chief U.S. negotiator of the New Strategic Arms Reduction Treaty (New START) with the Russian Federation, an experience captured in her memoir, *Negotiating the New START Treaty*, published in May 2021 by Cambria Press.

Siegfried Hecker



Siegfried Hecker is the editor of *Doomed to Cooperate: How American and Russian Scientists Joined Forces to Avert Some of the Greatest Post-Cold War Nuclear Dangers*, published by the Los Alamos Historical Society in 2016. Hecker is a senior fellow and affiliated faculty member at Stanford University's Center for International Security and Cooperation (CISAC) and the Freeman Spogli Institute for International Studies, as well as a research professor in the Department of Management Science and Engineering at Stanford. He is director emeritus of the Los Alamos National Laboratory, where he served as director from 1986 to 1997 and as senior fellow until July 2005.

Newell Highsmith



Newell Highsmith served for 30 years as an attorney at the U.S. Department of State with primary responsibility for legal issues related to arms control and the nonproliferation of weapons of mass destruction and missiles. He was the Assistant Legal Adviser for Arms Control and Nonproliferation from 2002 to 2013 before taking on broader responsibilities as a Deputy Legal Adviser from 2013 to 2017. He served as primary or sole legal adviser on the U.S. delegations that negotiated: the 1994 Agreed Framework with North Korea; the 2008 Agreement for Nuclear

Cooperation with India; and the 2015 Joint Comprehensive Plan of Action with Iran.

In addition, he was directly involved in developing the U.S. response to: Syria's use of chemical weapons; Syria's construction of a clandestine nuclear reactor; Russia's violations of its arms control obligations; Indian and Pakistani nuclear testing; Libya's renunciation of weapons of mass destruction; and Iraq's nuclear weapons program. He also worked on arms control and nonproliferation issues as a detailee to the National Security Council (1996-98).

Newell Highsmith received a B.A. in English from the University of North Carolina at Chapel Hill, a J.D. from Harvard Law School, and an LL.M. in International Law from George Washington University Law School. Prior to joining the State Department, he worked in private practice for 3 years and was a Teaching Fellow at George Washington University Law School for 2 years. He has regularly written, spoken, and consulted on nuclear issues since retiring from the State Department in April 2017.

Theresa Hitchens



Theresa Hitchens is a Senior Research Scholar at CISSM, where she focuses on space security, cyber security, and governance issues surrounding disruptive technologies. Prior to joining CISSM, Hitchens was the director of the United Nations Institute for Disarmament Research (UNIDIR) in Geneva from 2009 through 2014. Among her activities and accomplishments at UNIDIR, Hitchens served as a consultant to the U.N. Group of Governmental Experts on Transparency and Confidence Building Measures in Outer Space Activities, provided expert advice to the Conference on Disarmament regarding the prevention of an arms race in outer space (PAROS), and launched UNIDIR's annual conference on cyber security.

From 2001 to 2008, Hitchens worked at the Center for Defense Information, where she served as Director, and headed the center's Space Security Project, setting the strategic direction of the center and conducting research on space policy and other international security issues. She was also previously Research Director of the Washington affiliate of the British American Security Information Council (BASIC), where she managed the organization's program of research and advocacy in nuclear and conventional arms control, European security and North Atlantic Treaty Organization (NATO) affairs.

Hitchens previously worked for Defense News of Springfield, Virginia, covering transatlantic relations, the European Union, NATO, arms control, USAF issues, and international security. At Defense News, Hitchens served as International Editor on security, covering arms trade issues, nuclear, chemical and biological weapons, and as Editor for two years.

Matt Hourihan



Matt Hourihan is the director of the R&D Budget and Policy Program for the American Association for the Advancement of Science (AAAS), where he is a regular source of information and insight on past, present, and future science budgets for policymakers and the science community. He is a frequent speaker on these topics before academic, industry, government, and international audiences, and his analyses have been featured in major media including the Wall Street Journal, Nature, The Atlantic, Forbes, The Hill, Politico, Scientific American, Eos,

Vox, Bloomberg, and elsewhere. He has served in his current position since 2011.

Prior to joining AAAS, he served as a clean energy policy analyst at the Information Technology & Innovation Foundation (ITIF). While at ITIF, he tracked federal energy R&D investments and innovation activities, and authored several white papers and policy briefs exploring the role of innovation in solving the nation's energy and climate challenges. Previously, he served as Jan Schori Fellow at the Business Council for Sustainable Energy, a coalition of energy firms and utilities working to engage policymakers for market-based solutions to sustainable energy development and climate change.

As a student, he interned with the AAAS Center for Science, Technology and Congress, now the Office of Government Relations. He earned a master's degree in public policy with a focus on science and technology policy at George Mason University, and a B.A. in journalism from Ithaca College.

Frank Jannuzi



Frank Jannuzi joined the Mansfield Foundation as President and Chief Executive Officer in April 2014. He previously served as Deputy Executive Director (Advocacy, Policy and Research) at Amnesty International, USA. There he shaped and promoted legislation and policies to advance universal human rights, protect individuals and communities at risk, and free prisoners of conscience.

From 1997-2012 Mr. Jannuzi was Policy Director, East Asian and Pacific Affairs, for the U.S. Senate Foreign Relations Committee, where he advised Committee Chairmen Joseph Biden and John Kerry on a range of security, political, economic, and human rights issues pertinent to U.S. relations with East Asia. During his tenure with the Foreign Relations Committee he also was a Hitachi Fellow of the Council on Foreign Relations from 2006-2007, serving as a visiting lecturer at Keio University and a visiting scholar at the Institute of International Policy Studies in Tokyo. Early in his career he served for nine years as an analyst in the U.S. Department of State's Bureau of Intelligence and Research.

Mr. Jannuzi holds a Bachelor of Arts degree from Yale University and Master in Public Policy degree from the John F. Kennedy School of Government, Harvard University. He has traveled throughout Asia and has written extensively on East Asia policy issues, including U.S. relations with Japan, China, and North Korea. He lives in Baltimore with his wife, Dr. Jennifer Martin, and their two daughters Zoe and Camille.

Ayman Khalil



Khalil is the director of the Arab Institute for Security Studies (ACSIS), a Jordanian organization pursuing research on WMD proliferation, cooperative security mechanisms, and foreign policy. Earlier in his career he spent five years as liaison officer for United Nations University in Gulf Cooperation Council countries. He is the author of various books, articles, and papers, and edited a 2012 special report produced by ACSIS and the Geneva Centre for Security Policy on prospects for a WMD-free zone in the Middle East. In 1995 he received a doctorate in theoretical physics from Reading University.

Jeffrey Lewis



Dr. Jeffrey Lewis is the director of the East Asia Nonproliferation Program at CNS. Before coming to CNS, he was the director of the Nuclear Strategy and Nonproliferation Initiative at the New America Foundation. Prior to that, he was executive director of the Managing the Atom Project at the Belfer Center for Science and International Affairs, executive director of the Association of Professional Schools of International Affairs, a visiting fellow at the Center for Strategic and International Studies, and a desk officer in the Office of the Undersecretary of Defense for Policy.

At the Middlebury Institute, He teaches courses on arms control issues in Northeast Asia and Chinese nuclear policy. The work of his team was recently covered in The New York Times, The Wall Street Journal, and VICE. He is the author of Minimum Means of Reprisal: China's Search for Security in the Nuclear Age (MIT Press, 2007), and Paper Tigers: China's Nuclear Posture (IISS, 2014). He is a regular columnist for Foreign Policy, and has published articles in Foreign Affairs, the Washington Post, and The New York Times. He

is the founder of ArmsControlWonk.com, the leading blog and podcast on disarmament, arms control and nonproliferation.

Herbert Lin



Herbert Lin is senior research scholar for cyber policy and security at the Center for International Security and Cooperation and Hank J. Holland Fellow in Cyber Policy and Security at the Hoover Institution, both at Stanford University. His research interests relate broadly to the policy and national security dimensions of cybersecurity and cyberspace, with particular focus on offensive cyber operations and on the security aspects of information warfare and influence operations. He is Chief Scientist, Emeritus for the Computer Science and Telecommunications Board, National Research Council (NRC) of the National Academies, and Adjunct Senior Research Scholar and Senior Fellow in Cybersecurity (not in residence) at the Saltzman Institute for War and Peace Studies at Columbia University. He is a member of the Science and Security Board of the Bulletin of Atomic Scientists and an elected fellow of the American Association for the Advancement of Science (AAAS). In 2016, he served on President Obama's Commission on Enhancing National Cybersecurity. Prior to his NRC service, he was a professional staff member and staff scientist for the House Armed Services Committee (1986-1990), where his portfolio included defense policy and arms control issues. He holds a doctorate in physics from MIT.

Allison Macfarlane



Dr. Allison M. Macfarlane is currently Professor and Director of the School of Public Policy and Global Affairs within the Faculty of Arts at UBC. Dr. Macfarlane has held both academic and government positions in the field of energy and environmental policy, especially nuclear policy. Most recently, she directed the Institute for International Science and Technology Policy at the George Washington University. She recently held a fellowship at the Wilson International Center for Scholars in Washington, DC and was Fulbright Distinguished Chair in Applied Public Policy at Flinders University and Carnegie Mellon Adelaide in Australia.

The first geologist (and the third woman) to chair the U.S. Nuclear Regulatory Commission from 2012-2014, Dr. Macfarlane holds a doctorate in earth science from MIT and a bachelor's of science from the University of Rochester. She has held fellowships at Radcliffe College, MIT, Stanford, and Harvard Universities, and she has been on the faculty at Georgia Tech in Earth Science and International Affairs, at George Mason University in Environmental Science and Policy, and in the Elliott School of International Affairs at George Washington University.

Zia Mian



Zia Mian is a physicist and co-director of Princeton University's Program on Science and Global Security, part of the Princeton School of Public and International Affairs, where he has worked since 1997. He also directs the Program's Project on Peace and Security in South Asia. His research interests include issues of nuclear arms control, nonproliferation and disarmament and international peace and security. He is co-editor of *Science & Global Security*, the international technical journal of arms control, nonproliferation, and disarmament and also co-chair of the International Panel on Fissile Materials (IPFM), an eighteen-country independent group of experts working to strengthen policy initiatives to end production and eliminate stockpiles of plutonium and highly enriched uranium, the key ingredients for nuclear weapons.

In addition to his scholarly articles, he is the co-author of *Unmaking the Bomb* (MIT Press, 2014) and editor of several books and has made two documentary films on peace and security in South Asia. He received the 2014 Linus Pauling Legacy Award for "his accomplishments as a scientist and as a peace

activist in contributing to the global effort for nuclear disarmament and for a more peaceful world.” He received the American Physical Society’s 2019 Leo Szilard Award “For promoting global peace and nuclear disarmament particularly in South Asia, through academic research, public speaking, technical and popular writing and organizing efforts to ban nuclear weapons.”

Olga Oliker



Olga Oliker is Program Director for Europe and Central Asia, International Crisis Group, Brussels and Adjunct Professor of European and Eurasian Studies at SAIS Europe. Oliker's research interests center on the foreign and security policies of Russia, Ukraine, and the Central Asian and Caucasian successor states to the Soviet Union, domestic politics in these countries, U.S. policy towards the region, and nuclear weapon strategy and arms control. Prior to joining the International Crisis Group, Professor Oliker directed the Russia and Eurasia Program at the Center for Strategic and International Studies and held various research and management roles at the RAND Corporation, including as Director of the Center for Russia and Eurasia. Early in her career, she served at the U.S. Department of

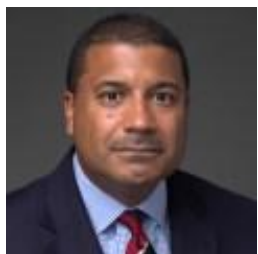
Defense. She is a member of the Deep Cuts Commission. Oliker holds a PhD in political science from the Massachusetts Institute of Technology, an M.P.P. from the Harvard University Kennedy School of Government, and a BA from Emory University.

Sara Pozzi



Professor Sara Pozzi earned her M.S. and Ph.D. in nuclear engineering at the Polytechnic of Milan, Italy in 1997 and 2001, respectively. She is a Professor of Nuclear Engineering and Radiological Sciences and a Professor of Physics at the University of Michigan (UM). Her research interests include the development of new methods for nuclear materials detection, identification, and characterization for nuclear nonproliferation, safeguards, and national security programs. Prior to her positions at UM, she was a staff scientist at Oak Ridge National Laboratory from 2002 to 2007.

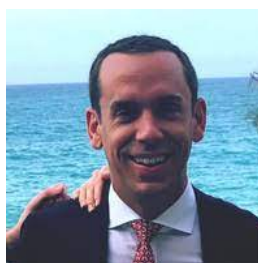
Frank Rose



Frank A. Rose is a senior fellow and the co-director of the Center for Security, Strategy, and Technology in the Foreign Policy program at the Brookings Institution. He focuses on nuclear strategy and deterrence, arms control, strategic stability, missile defense, outer space, and emerging security challenges. From 2017-18, he served as principal director and chief of government relations at the Aerospace Corporation, a federally-funded research and development center focused on national security space. Before that, Rose served as assistant secretary of state for arms control, verification, and compliance from 2014-17. In this position, he was responsible for advising the secretary of state on a wide variety of

arms control, strategic policy, verification, and compliance issues. From 2009 to 2014, Rose served as the deputy assistant secretary of state for space and defense policy where he was responsible for key issues related to arms control and defense policy including missile defense, space security, chemical and biological weapons, and conventional arms control.

Grant Schneider



Grant currently serves on the House Armed Services Committee as a Professional Staff Member covering nuclear weapons issues. Previously, Grant was a cybersecurity strategist at DHS' Cybersecurity and Infrastructure Security Agency, where he coordinated efforts to support cybersecurity within State, Local, Tribal, and Territorial communities. Previously, Grant was a foreign affairs officer in the State Department’s Bureau of Arms Control, Verification and

Compliance where he supported the development and implementation of cyber stability policies, with particular focus on Russia and China. In the fall of 2016, he chaired negotiations that led to the successful adoption of UN Security Council Resolution 2310, reaffirming the international community's support for the Comprehensive Nuclear-Test-Ban Treaty. In 2013 and 2014, he led the Bureau's public affairs office where he led the Department's media efforts on the removal and destruction of parts of the Syrian chemical weapons program, as well on numerous nuclear, space and missile defense issues. He has also served as a speechwriter and staff assistant to Under Secretary Rose Gottemoeller. In 2014 he represented the United States as a United Nations Disarmament Fellow. He received his BSFS from Georgetown University and his MA from The George Washington University.

Doug Shaw



Douglas B. Shaw, PhD, is a Research Professor of International Affairs at The George Washington University's Elliott School of International Affairs and Principal of AsymmetryX, a planning and communications consultancy focused on leveraging Washington for global impact.

Previously, Shaw served in a variety of senior leadership roles in higher education, including as George Washington University's senior associate provost for international strategy; associate dean for planning, research, and external relations at GW's Elliott School of International Affairs; and director of policy planning in the Office of the President at Georgetown University. He also has served in leadership roles in several non-governmental organizations including the Nuclear Threat Initiative, Physicians for Social Responsibility, the Lawyers Alliance for World Security, College Bound, and the Worker Rights Consortium. During the

Clinton administration, he served in the U.S. Department of Energy, working to secure weapons-usable nuclear materials in Ukraine; in the U.S. Arms Control and Disarmament Agency supporting the indefinite extension of the Nuclear Non-Proliferation Treaty; and in the Office of Presidential Personnel in the White House.

Shaw holds B.S.F.S., M.A., and Ph.D. degrees from Georgetown University in international relations and security studies. He has served as an assistant professor of international affairs at George Washington University for eight years and as a teaching fellow at Georgetown for three years, offering more than 20 semester courses on nuclear nonproliferation, arms control, and WMD terrorism.

Arturo Sotomayor

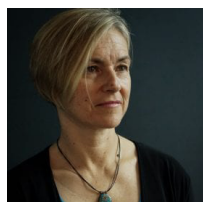


Arturo C. Sotomayor is Associate Professor of International Affairs and Director of the Security Policy Studies M.A. Program at the Elliott School of International Affairs. His areas of interest include civil-military relations in Latin America; UN peacekeeping participation by South American countries; Latin American comparative foreign policy, and nuclear policy in Argentina, Brazil and Mexico. The unifying thread that runs through his research and writing is the interaction between studies on civil-military relations and international security, and research on the conditions and requirements for domestic order and regional stability in Latin America.

His publications have appeared in *Security Studies*, *International Peacekeeping*, *Journal of Latin American Politics and Society*, *Nonproliferation Review*, *Small Wars and Insurgencies*, *Global Responsibility to Protect*, *Foreign Affairs*, and other edited volumes. His volume *The Myth of the Democratic Peacekeeper: Civil-Military Relations and the United Nations* (Baltimore: Johns Hopkins University Press, 2014) was the winner of the 2015 Luciano Tomassini Latin American International Relations Book Award, presented by the Latin American Studies Association (LASA). He is the co-editor of *American Crossings: Border Politics in the Western Hemisphere* (Johns Hopkins University Press, 2015), *Mexico's Security Failure: Collapse into Criminal Violence* (Routledge, 2012), and *El mundo desde México: Ensayos de política internacional* (El Colegio de México, 2008).

Before joining the GWU faculty in the fall of 2018, Sotomayor was Associate Professor of Political Science and Program Coordinator for Latin American Studies at the University of Texas at San Antonio (UTSA), Associate Professor in the Department of National Security Affairs at the Naval Postgraduate School in Monterey, California, Mexico Policy Research Fellow at the Woodrow Wilson Center for International Scholars, Post-doctoral Research Fellow at the Center for Inter-American Policy Research (CIPR) at Tulane University, and Assistant Professor of International Relations at the Centro de Investigación y Docencia Económicas CIDE, in Mexico City. He was also the 2016-2017 Academic Coordinator of the UTSA Mellon Humanities Pathways Program, which received generous funding from the Andrew Mellon Foundation. His research agenda has been funded by multiple agencies, including the Ford Foundation, the Defense Threat Assessment Agency (DTRA) at the Department of Defense, the Minerva Research Initiative, and the Fulbright-Garcia Robles scholarship program. In 2014 Sotomayor was the recipient of the LCDR David L. Williams Outstanding Professor Award presented by the Naval Postgraduate School. He received his M.A., M.Phil. and Ph.D. in political science from Columbia University and his B.A. degree in international relations from Technological Autonomous Institute of Mexico (ITAM).

Sharon Squassoni



Sharon Squassoni's research, writing and policy-making has focused on reducing risks from nuclear energy and weapons for three decades. She has held senior positions at the State Department, Arms Control and Disarmament Agency and the Congressional Research Service, as well as the Carnegie Endowment for International Peace and the Center for Strategic & International Studies. She is on the Science and Security Board of the Bulletin of Atomic Scientists, the PIR Center and the Center for Arms Control and Nonproliferation.

Warren Stern



Warren Stern is an internationally recognized leader and manager in the area of nuclear energy, safeguards, safety and security. He is a senior advisor in Brookhaven Lab's Nonproliferation and National Security Department. Stern has held leadership positions at the CIA, Department of State, the International Atomic Energy Agency (IAEA) and the Department of Homeland Security (DHS). He was appointed by President Obama to lead DHS's Domestic Nuclear Detection Office in August 2010. He served in that position until June 2012.

At Brookhaven, Stern provides strategic guidance on nonproliferation and other security issues, builds business and leads projects in IAEA safeguards, international nuclear security, nuclear detection and emergency response. He works both at Brookhaven Lab and in Washington, D.C.

Benn Tannenbaum



Benn Tannenbaum is a government relations manager and head of the Washington Program Office for Sandia National Laboratories. He is a Professorial Lecturer at George Washington University's Elliott School of International Affairs. He has testified before the House Homeland Security Committee on radiation portal monitors and has authored or coauthored over 160 scientific or policy-related publications. Tannenbaum has served on the American Physical Society's Panel on Public Affairs, as the Secretary-Treasurer of APS's Forum on Physics and Society, on the steering committee of the American Association for the Advancement of Science's Section on Industrial Science and Technology, and is currently on the American Institute of Physics's Public Policy Panel. He is an interviewer for the Hertz Foundation and is a Fellow of the

American Physical Society.

Dr. Tannenbaum has been the Program Director at AAAS's Center for Science, Technology and Security Policy; a Senior Research Analyst for the Federation of American Scientists; and the 2002-2003 American Physical Society Congressional Science Fellow. He worked as a Postdoctoral Fellow at the University of California, Los Angeles. At UCLA, he was involved in the Compact Muon Solenoid experiment at

CERN, in Geneva, Switzerland, and the Collider Detector Facility at the Fermi National Accelerator Laboratory outside Chicago, Illinois. He received his Ph.D. in physics from the University of New Mexico in 1997. Trained as an experimental particle physicist, his doctoral dissertation involved a search for evidence of physics beyond the Standard Model in the form of supersymmetry. None was found.

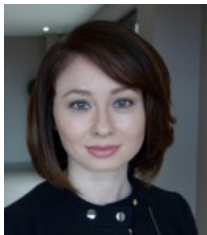
Jenny Town



Jenny Town is a Senior Fellow at the Stimson Center and the Director of Stimson's 38 North Program. Her expertise is in North Korea, US-DPRK relations, US-ROK alliance and Northeast Asia regional security. She was named one of Worth Magazine's "Groundbreakers 2020: 50 Women Changing the World" and one of Fast Company's Most Creative People in Business in 2019 for her role in co-founding and managing the 38 North website, which provides policy and technical analysis on North Korea. Ms. Town is also an expert reviewer for Freedom House's Freedom in the World Index, where she previously worked on the Human Rights in North Korea Project; an Associate Fellow at the Foreign Policy Institute at Johns Hopkins School of Advanced International Studies (SAIS), a Member of the National Committee on North Korea, and an Associate Member of the Council of Korean Americans. She serves on the Editorial Board for Inkstick, an online foreign policy journal for emerging scholars.

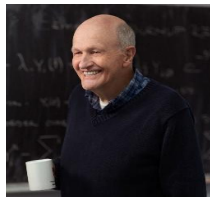
From 2008-2018, Ms. Town served as the Assistant Director of the US-Korea Institute at SAIS. She holds a BA in East Asian Studies and International Relations from Westmar University and a Master of International Affairs from Columbia University School of International and Public Affairs.

Jane Vaynman



Jane Vaynman is an Assistant Professor in Political Science at Temple University. Her research focuses on security cooperation between adversarial states, the design of arms control agreements, and the nuclear nonproliferation regime. Previously, she was the Associate Director of the Institute for Security and Conflict Studies and Research Assistant Professor at the Elliott School of International Affairs, George Washington University. She was also Stanton Nuclear Security Fellow at the Council on Foreign Relations, and has held positions with the U.S. Department of State and the Carnegie Endowment for International Peace. She received her PhD in Government from Harvard University.

Frank von Hippel



Frank von Hippel is Senior Research Physicist and Professor of Public and International Affairs emeritus at Princeton University where, in 1975, he co-founded and co-chaired for three decades the Program on Science and Global Security. In 2006, he co-founded the International Panel on Fissile Materials and co-chaired it for its first nine years. During 1983-90, he worked with President Gorbachev's advisor, Evgenyi Velikhov, to develop a number of successful initiatives to end nuclear testing, end the production of plutonium and highly enriched uranium for weapons, and eliminate excess weapons materials. He has advised U.S. Administrations and Congress on nuclear security issues since the Carter Administration. During 1993-4, he served as Assistant Director for National Security in the White House Office of Science and Technology Policy and helped develop U.S.- Russian cooperative initiatives on nuclear threat reduction.

David Wright



David Wright is a Research Affiliate in the Department of Nuclear Science and Engineering at MIT. He was a Senior Scientist in the Global Security Program at the Union of Concerned Scientists (UCS) from 1992 until 2020, serving as Co-Director after 2002. He received his Ph.D. in theoretical condensed matter physics from Cornell University in 1983, and worked as a research physicist until 1988. Prior to joining UCS in 1992, he was a Fellow in the Center for Science and International Affairs in

the Kennedy School of Government at Harvard (1988-90), and a Senior Analyst at the Federation of American Scientists (1990-2).

Andrew Weber



Hon. Andy Weber is an independent consultant and a Senior Fellow at the Council on Strategic Risks, a non-partisan, non-profit think tank. He has dedicated his professional life to countering nuclear, chemical, and biological threats and to strengthening global health security. Weber's thirty years of US government service included five-and-a-half years as President Obama's Assistant Secretary of Defense for Nuclear, Chemical and Biological Defense Programs. He was a driving force behind Nunn-Lugar Cooperative Threat Reduction efforts to remove weapons-grade uranium from Kazakhstan and Georgia and nuclear-capable MiG-29 aircraft from Moldova, to reduce biological weapons threats, and to destroy Libyan and Syrian chemical weapons stockpiles. In addition, he coordinated US leadership of the international Ebola response for the Department of State. Prior to joining the Pentagon as Advisor for Threat Reduction Policy in December 1996, Mr. Weber was posted abroad as a US Foreign Service Officer in Saudi Arabia, Germany, Kazakhstan, and Hong Kong. Mr. Weber is currently a Strategic Advisor for Ginkgo BioWorks and consultant for DARPA, Lawrence Livermore National Laboratory, and others. He serves on the Boards of the Arms Control Association and Healthcare Ready, and the James Martin Center for Non-proliferation Studies International Advisory Council. He taught a course on Force and Diplomacy at the Georgetown University Graduate School of Foreign Service for seven years, and was a Senior Fellow at the Harvard Kennedy School's Belfer Center for Science and International Affairs. Mr. Weber graduated from Cornell University and holds a Master of Science in Foreign Service (MSFS) degree from Georgetown University. He is a member of the Council on Foreign Relations. His twitter handle is @AndyWeberNCB.