



WINTER PPNT CONFERENCE
WASHINGTON, D.C., MARCH 22-23, 2013
UNIVERSITY OF CALIFORNIA, WASHINGTON CENTER (UCDC)

Bios

Ambassador Linton Brooks is an independent consultant on national security issues, a Senior Advisor at the Center for Strategic and International Studies, a Distinguished Research Fellow at the National Defense University, a member of the National Academy of Sciences Committee on International Security and Arms Control and an advisor to six of the Department of Energy national laboratories. He served from July 2002 to 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 five decades of experience in national security, much of it associated with nuclear weapons. His government service includes service as Deputy Administrator for Nuclear Nonproliferation at the National Nuclear Security Administration, Assistant Director of the United States Arms Control and Disarmament Agency, Chief U.S. Negotiator for the Strategic Arms Reduction Treaty, Director of Defense Programs and Arms Control on the National Security Council staff and a number of Navy and Defense Department assignments as a 30-year career naval officer. Ambassador Brooks holds degrees in Physics from Duke University and in Government and Politics from the University of Maryland and is a Distinguished Graduate of the U.S. Naval War College. Since 2008 he has served as an Expert in Residence during the annual Public Policy and Nuclear Threats program.

Dr. Charles D. Ferguson is the President of the Federation of American Scientists (FAS). Founded by Manhattan Project atomic scientists, FAS works at the intersection of science and national security policy. Prior to FAS, Dr. Ferguson worked as the Philip D. Reed Senior Fellow for Science and Technology at the Council on Foreign Relations. Before his work at CFR, he was the Scientist-in-Residence in the Monterey Institute's Center for Nonproliferation Studies, where he co-wrote (with William Potter) the book *The Four Faces of Nuclear Terrorism* (Routledge, 2005). While working at the Monterey Institute, he was the lead author of the report *Commercial Radioactive Sources: Surveying the Security Risks*, which was the first in-depth, post-9/11 study of the "dirty bomb" threat. This report won the 2003 Robert S. Landauer Lecture Award from the Health Physics Society. Dr. Ferguson has consulted with Sandia National Laboratories and the National Nuclear Security Administration on improving the security of radioactive sources. He has worked as a physical scientist in the Office of the Senior Coordinator for Nuclear Safety at the U.S. Department of State. In May 2011, his book *Nuclear Energy: What Everyone Needs to Know* was published by Oxford University Press. He graduated with distinction from the United States Naval Academy, served in the U.S. nuclear Navy, and earned a Ph.D. in physics from Boston University.

The Honorable Allison M. Macfarlane was sworn in as chairman of the U.S. Nuclear Regulatory Commission July 9, 2012. She was nominated by President Obama and confirmed by the Senate to a term expiring June 30, 2013. Dr. Macfarlane, an expert on nuclear waste issues, holds a doctorate in geology from the Massachusetts Institute of Technology and a bachelor's of science degree in geology from the University of Rochester. Prior to beginning her term as the NRC's 15th chairman, Dr. Macfarlane was an associate professor of environmental science and policy at George Mason University in Fairfax, Va. From 2010 to 2012 she served on the Blue Ribbon Commission on America's Nuclear Future, created by the Obama Administration to make recommendations about a national strategy for dealing with the nation's high-level nuclear waste. Her research has focused on environmental policy and international security issues associated with nuclear energy, especially the back-end of the nuclear fuel cycle. In 2006, MIT Press published a book she co-edited, *Uncertainty Underground: Yucca Mountain and the Nation's High-Level Nuclear Waste*, which explored technical issues at the proposed waste disposal facility at Yucca

Mountain, Nev. During her academic career, she held fellowships at Radcliffe College, MIT, and Stanford and Harvard Universities. From 1998 to 2000 she was a Social Science Research Fellow-MacArthur Foundation Fellow in International Peace and Security. She has served on National Academy of Sciences panels on nuclear energy and nuclear weapons issues. From 2003 to 2004, she was on the faculty at Georgia Tech in Earth science and international affairs. Dr. Macfarlane is the third woman to serve as chairman, the 33rd member and the only individual with a background in geology to serve on the Commission. A native of Connecticut, Macfarlane and her husband, an anthropologist, live in Bethesda, Md. They have two children and a dog.

Janne E. Nolan is a member of the international affairs faculty at George Washington University and a Senior Fellow at the Association for Diplomatic Studies. She has held numerous senior positions in the private sector, including as Professor of International Affairs and Deputy Director of the Ridgway Center at the University of Pittsburgh; project director and research faculty at the Georgetown School of Foreign Service; Director of Foreign Policy for The Century Foundation of New York, Senior Fellow in Foreign Policy Studies at the Brookings Institution, and Senior International Security Consultant at Science Applications International Corporation. Dr. Nolan's public service includes positions as a technology trade and arms control specialist in the Department of State, as senior representative to the Senate Armed Services Committee, and as the defense advisor to several presidential campaigns and transition teams. She served as an appointed member the White House Presidential Advisory Board on U.S. Arms and Technology Policy (Chair), the National Defense Panel, the State Department's Accountability Review Board (investigating terror attacks against U.S. embassies in East Africa), the Gates Panel to Assess the Ballistic Missile Threat to the U.S., and the Secretary of Defense's Policy Board. Author of seven books, Dr. Nolan's work includes: *Guardians of the Arsenal: The Politics of Nuclear Strategy*, [*Trappings of Power: Ballistic Missiles in the Third World*](#), and [*An Elusive Consensus: Nuclear Weapons and American Security after the Cold War*](#). She has received major research awards from the Carnegie Corporation of New York, the John T. and Catherine D. MacArthur Foundation (5 time recipient), the Ford Foundation, and the Ploughshares Foundation and serves on the board of the American Middle East Institute, the Arms Control Association, the Monterey Institute's Non Proliferation Review, the Hewlett Foundation, and the Center for Climate and Security. Dr. Nolan is a member of the Council on Foreign Relations, the American Academy of Arts and Sciences Committee on International Security (second appointed term), the Aspen Strategy Group (Distinguished Emeritus), and the Cosmos Club.

Trita Parsi is the 2010 recipient of the Grawemeyer Award for Ideas Improving World Order. He is the founder and president of the National Iranian American Council and an expert on US-Iranian relations, Iranian foreign politics, and the geopolitics of the Middle East. He is the author of *Treacherous Alliance: The Secret Dealings of Iran, Israel and the United States* (Yale University Press 2007), for which he conducted more than 130 interviews with senior Israeli, Iranian and American decision-makers. *Treacherous Alliance* is the silver medal winner of the 2008 Arthur Ross Book Award from the Council on Foreign Relations. Parsi's new book *A Single Roll of the Dice - Obama's Diplomacy with Iran* (Yale University Press) was released early 2012. He interviewed 70 high-ranking officials from the U.S., Iran, Europe, Israel, Saudi Arabia, Turkey, and Brazil—including the top American and Iranian negotiators—for this book. Parsi uncovers the previously unknown story of American and Iranian negotiations during Obama's early years as president, the calculations behind the two nations' dealings, and the real reasons for their current stalemate. Parsi studied for his Doctoral thesis on Israeli-Iranian relations under Professor Francis Fukuyama at Johns Hopkins University School of Advanced International Studies. In addition to his PhD, he holds a Master's Degree in International Relations from Uppsala University and a Master's Degree in Economics from the Stockholm School of Economics. He has served as an adjunct professor of International Relations at Johns Hopkins University SAIS, an adjunct scholar at the Middle East Institute and as a Policy Fellow at the Woodrow Wilson International Center for Scholars in Washington DC.

Amy F. Woolf is a Specialist in Nuclear Weapons Policy in the Foreign Affairs, Defense, and Trade Division of the Congressional Research Service at the Library of Congress. She provides Congress with information, analysis, and support on issues related to U.S. and Russian nuclear forces and arms control. She has authored many studies and participated in numerous seminars on these issues, addressing such topics as nuclear weapons strategy and doctrine, nuclear force structure, strategic arms control and the U.S-Russian arms control agenda, ballistic missile defense policy, and issues related to nuclear weapons and threat reduction in the former Soviet Union. Ms. Woolf

has spoken at numerous conferences and workshops, discussing issues such as Congressional views on arms control and ballistic missile defenses, cooperative threat reduction with Russia, and U.S. nuclear weapons policy. Before joining CRS, Ms. Woolf was a member of the Research Staff at the Institute for Defense Analyses (IDA) in Alexandria, Virginia. She also spent a year at the Department of Defense, working on the 1994 Nuclear Posture Review. Ms. Woolf received a Masters in Public Policy from the Kennedy School of Government at Harvard University in 1983 and a BA in Political Science from Stanford University in 1981.

PANELISTS:

Philipp Bleek is an assistant professor in the Graduate School of International Policy and Management at the Monterey Institute of International Studies, a Graduate School of Middlebury College, and a fellow at the James Martin Center for Nonproliferation Studies. During the 2012-13 academic year, he is on leave from both those positions to serve as a senior advisor to the assistant secretary of defense for nuclear, chemical, and biological defense programs under a Council on Foreign Relations fellowship. His research, teaching, and non-academic work focuses on the causes, consequences, and amelioration of nuclear, biological, and chemical weapons proliferation.

Jay Kristoffer Brotz is a Senior Systems Engineer in the Nuclear Monitoring and Transparency Department at Sandia National Laboratories. His work is primarily on the Chain of Custody project, in which he is the Hardware and Operations Design Lead. He performs the Systems Engineering functions of concept of operations development, requirements development, design of hardware and operations, technology evaluation and trade studies, and the direction of component and subsystem build and testing. He is primarily concerned with the evaluation of candidate technologies to be used as monitoring nodes at the Engineering Test Bed at Sandia and the National Chain of Custody Test Bed in Nevada. Jay's interest in providing technological options for policy makers in the Arms Control realm have led him to be selected as the Nuclear Weapons Complex representative to the Next Generation Working Group on U.S.-China Nuclear Relations, a function of the Center for Strategic and International Studies (CSIS) Project on Nuclear Issues (PONI). Previously in his career, Jay has been a lead system design engineer on the Second Line of Defense Megaports Initiative, a systems engineer in the Nuclear Weapons Systems Center, during which he participated in advanced weapons architecture and design projects, and an electrical engineer in the Electromechanical Components Department. Jay graduated with a BS in Computer Engineering from Rose-Hulman Institute of Technology and an MS in Electrical and Computer Engineering from Carnegie Mellon University, where he wrote a Master's thesis on damping of mechanical resonators fabricated in a CMOS-MEMS process.

Liz Dallas received both her Bachelor's degree in Chemistry and her Master's degree in Analytical Chemistry from the Georgia Institute of Technology. Following her education, she applied her skills as a researcher, writer and editor to two important texts. The first was the National Nuclear Security Agency project to produce the industry guideline text *Environmental Monitoring and Surveillance*. The second was the Department of Energy-sponsored textbook *Radioanalytical Chemistry*. Work on these projects provided long-term exposure to many radiochemists and nuclear physicists. The constructive and collaborative nature of the work ultimately led Ms. Dallas to refocus her research interests on the science of and issues surrounding the use of nuclear energy and materials.

Ms. Dallas is currently pursuing a PhD in International Affairs, Science and Technology at the Sam Nunn School, with a minor in Nuclear and Radiological Engineering. Her research interests include nuclear fuel cycle issues, nuclear proliferation and international negotiations and treaties. She has just begun work with the Comprehensive Test Ban Treaty Organization (CTBTO) in Vienna, to help the On-Site Inspection Division to integrate the mobile radionuclide units into the OSI training program.

William Abbott Foster is a Senior Research Associate at CISTP a think tank of Georgia Tech's Sam Nunn School of International Affairs. Before coming to Georgia Tech he taught at Arizona State University. His PhD dissertation on the Diffusion of the Internet in China was published by CISAC at Stanford. He was the International Policy Editor for CIX--the world trade association of Internet Service Providers. Between 1982 and 1984, Dr. Foster designed the Internet connections for the US Congress, the Executive Office of the President, and the intelligence community. All books and articles as well as his resume are available at: <http://www.fosterandbrahm.com>

Jeffrey Kaplow is a PhD candidate in political science at the University of California, San Diego. He is an International Nuclear Security Dissertation Fellow with the University of California's Institute on Global Conflict and Cooperation and a Stanton Nuclear Security Fellow at the RAND Corporation. His dissertation examines how the track record of international institutions—such as the nuclear nonproliferation regime—affects state compliance in the future. Before coming to UCSD, he analyzed foreign nuclear weapons efforts for the US government and worked as a research consultant evaluating the effectiveness of federal government programs. He holds a master's degree in international security policy from Harvard's Kennedy School and a BA in political science from Yale.

Matthew Kroenig is an Assistant Professor and International Relations Field Chair in the Department of Government at Georgetown University. He is the author of [*Exporting the Bomb: Technology Transfer and the Spread of Nuclear Weapons*](#) (Cornell University Press, 2010), which received the International Studies Association's Best Book Award, Honorable Mention. He is also the coauthor of [*The Handbook of National Legislatures: A Global Survey*](#) (Cambridge University Press, 2009) and coeditor of [*Causes and Consequences of Nuclear Proliferation*](#) (Routledge, 2011). His articles on international politics have appeared in such publications as *American Political Science Review*, *Christian Science Monitor*, *Comparative Strategy*, *Foreign Affairs*, *Foreign Policy*, *International Organization*, *International Security*, *Journal of Conflict Resolution*, *Newsday*, *Perspectives on Politics*, *Security Studies*, *The American Interest*, *The New Republic*, *The Wall Street Journal*, *The Washington Post*, *The Washington Quarterly*, and *USA Today*. He has provided commentary on BBC, CNN, C-SPAN, NPR, and many other media outlets. From July 2010 to July 2011, Dr. Kroenig was a Special Advisor in the Office of the Secretary of Defense on a Council on Foreign Relations International Affairs Fellowship, where he worked on the development and implementation of U.S. defense policy and strategy in the Middle East. Previously, in 2005, he worked as a strategist in the Office of the Secretary of Defense where he authored the first-ever, U.S. government strategy for deterring terrorist networks. For his work, he was awarded the Office of the Secretary of Defense's Award for Outstanding Achievement. He is a term member of the Council on Foreign Relations and Co-Chair of the Council's Term Member Advisory Committee. Dr. Kroenig has held fellowships from the Council on Foreign Relations, the National Science Foundation, the Belfer Center for Science and International Affairs at Harvard University, the Center for International Security and Cooperation at Stanford University, and the Institute on Global Conflict and Cooperation at the University of California.

Rupal Mehta is a PhD student in the Department of Political Science at UCSD. Her general research interests include nuclear weapons, force structure and latency. Her dissertation looks into the inducements necessary for nuclear deproliferation. She received her B.A. in Political Science at UC Berkeley.

Adam Mount is a fifth-year Ph.D. candidate in Government at Georgetown University. His dissertation explains U.S. commitments to nuclear disarmament in formal settings as responses to a moral disarmament norm. His current applied research considers technical steps the U.S. can take now to better leverage extant disarmament commitments by increasing their credibility. Previously, he worked (with Alexander Montgomery) on political distortions of U.S. intelligence estimates of foreign nuclear weapons programs. He is a summer associate at the RAND Corporation doing strategic planning for the U.S. Army. His work has appeared in *Democracy: A Journal of Ideas* and *Security Dialogue*.

Neil Narang is an assistant professor in the Department of Political Science at UC Santa Barbara and project director for IGCC's Public Policy and Nuclear Threats (PPNT) program. He is an alumnus of the PPNT program and has been an active participant in its annual winter conference. From 2011-2012 Narang was a postdoctoral fellow at the Christopher H. Browne Center for International Politics at the University of Pennsylvania. He received his Ph.D. in Political Science from UC San Diego in 2011 and was an IGCC Dissertation Fellow.

Mira Rapp-Hooper is a PhD candidate in Political Science at Columbia University. She specializes in International Relations and Security studies, with a focus on nuclear weapons, nuclear strategy and nonproliferation. Mira's dissertation, entitled "Absolute Alliances: Signaling Security Guarantees in International Politics," analyzes how so-called "nuclear umbrella" alliances are formed and managed. Other research interests include US foreign policy, East Asian security, and modern diplomatic history. Mira holds a BA from Stanford in History, an MA from NYU in

Politics and an MA and MPhil from Columbia in Political Science. She will be a Stanton Nuclear Security Fellow at the Council on Foreign Relations for the 2013-2014 academic year.

Samuel T. Reed is a fourth year Ph.D. student in Political Science at the University of British Columbia. Though he studies a broad range of topics across the subfields of International Relations, Comparative and US Politics, his primary research focuses on denuclearization. For this program of study, Mr. Reed was the recipient of the 2010 James and Setsuko Thurlow Scholarship for Peace and Disarmament Studies. Mr. Reed also coordinates his graduate department's teaching assistant training program, and in 2012 was recognized by the Faculty of Arts for his excellence in graduate teaching. In 2007, Mr. Reed earned his B.A. from the University of California, Santa Cruz with highest honors in the major of Politics.

Caroline S. Reilly is a third-year Ph.D. candidate in Security Studies at the Woodrow Wilson School of Public and International Affairs at Princeton University. She received her undergraduate degree in aerospace engineering from MIT in 2006 and subsequently completed a master's degree from the War Studies Department at King's College London, where her thesis focused on the technical consequences of conflict in space. Prior to coming to Princeton, Reilly was a research assistant with the RAND Corporation, involved mostly with strategic force planning issues.

Todd Robinson is a fifth year doctoral candidate in the Political Science Department at the University of Illinois at Urbana-Champaign, focusing on international relations and interstate conflict. His dissertation, entitled "Nuclear Neighbors and Nuclear Neighborhoods," investigates how states respond to changes in the nuclear weapons production capabilities of other states. His research interests include nuclear proliferation and nonproliferation, regional variations in conflict processes, and conflict escalation. Prior to coming to the U of I, he was a research analyst at NASA's Marshall Space Flight Center in Huntsville, AL. Prior to working at NASA, he worked as a research associate at the Council on Foreign Relations, in Washington, D.C., in their Asia and Science and National Security programs. He has a B.A. in East Asian Studies from the University of Alabama, and an M.A. in Security Policy Studies from The George Washington University's Elliott School of International Affairs.

Lawrence Rubin is Assistant Professor in the Sam Nunn School of International Affairs and a faculty affiliate of the Center for International Strategy Technology, and Policy. His research interests include comparative Middle East politics and international security with a specific focus on Islam and politics, Arab foreign policies, and nuclear proliferation. He holds a PhD in Political Science from UCLA and has earned degrees from UC Berkeley, the London School of Economics, and the University of Oxford. Rubin has been a Research Fellow at the Belfer Center for Science and International Affairs with the Dubai Initiative in the Harvard Kennedy School of Government (2009-2010) and has served as a lecturer on the Robert and Myra Kraft chair in Arab politics at the Crown Center for Middle East Studies, Brandeis University (2008-2009). Rubin is currently the Associate Editor for the journal *Terrorism and Political Violence*. Outside of Academia, Rubin has held positions at the National Defense University's Near East South Asia Center for Strategic Studies and the RAND Corporation. Rubin has conducted research in Morocco, Egypt, Israel, the UAE, and Yemen. Rubin's work has been published in *International Studies Review*, *Middle East Policy*, *Terrorism and Political Violence*, *Contemporary Security Policy*, and *Politics, Religion, and Ideology*. He is a co-editor and contributor *Terrorist Rehabilitation and Counter-Radicalisation: New Approaches to Counter-terrorism* (Routledge 2011). Rubin is currently completing a book manuscript titled *Islamist regimes and the politics of threat perception in the Arab world*.

Erika Suzuki is in her third and final year as an undergraduate at UC Berkeley studying Political Science and Public Policy. She currently leads the UC Berkeley Nuclear Policy Working Group as a Nuclear Policy Research Assistant for Dr. Bethany Goldblum, the Assistant Director of the Berkeley Nuclear Research Center and the working group's advisor. In the past, Erika has facilitated two elective courses, one on human rights and the other on the politics of genocide, as part of the Democratic Education at Cal program. She has also interned for Democratic Leader and Congresswoman Nancy Pelosi, the American Federation of State, County, and Municipal Employees Local 3299, and the Berkeley Rent Board Commissioner Igor Tregub. She is an alumna of the Berkeley Haas School of Business' summer program, Business for Arts, Science, and Engineering, and is a member of Delta Phi Epsilon, a co-ed,

professional Foreign Service and international affairs fraternity. After graduating, Erika aspires to work in the national security field as a nuclear policy analyst focusing on nuclear counterterrorism and nonproliferation efforts. She also plans to attend graduate school to attain her Masters and PhD in international security affairs.

Heather Williams is a PhD Candidate in the Department of War Studies at King's College London. Her thesis is on "The Legacy of 'Trust but Verify' in U.S.-Russia Arms Control," and examines trust-building tools in the Presidential Nuclear Initiatives, START, Moscow Treaty, and New START. She is also an adjunct researcher with the Institute for Defense Analyses in Alexandria, VA, where she worked prior to starting doctoral research. Heather previously worked for Analytic Services, Inc. in the Office of the Secretary of Defense Chemical and Biological Defense Program, and for the US Air Force. She has a BA in International Relations and Russian Studies from Boston University and an MA in Security Policy Studies from The George Washington University.

Paul Willis-Patel is a Hydro Technical Team Leader working within the Hydrodynamics Division at the Atomic Weapons Establishment, UK. His research interests include international negotiations and proliferation of nuclear technologies. He is part of the Nuclear Weapons Policy Discussion Programme which discusses and debates matters primarily concerning nuclear policy, nuclear weapons and associated national and International interest. He is currently researching how emerging technologies can influence strategic nuclear policy. He has a BEng in Aerospace Manufacturing from Bristol University and an MSc in Operations Excellence from Cranfield University. He was accredited in 2012 with Chartered Engineer status.