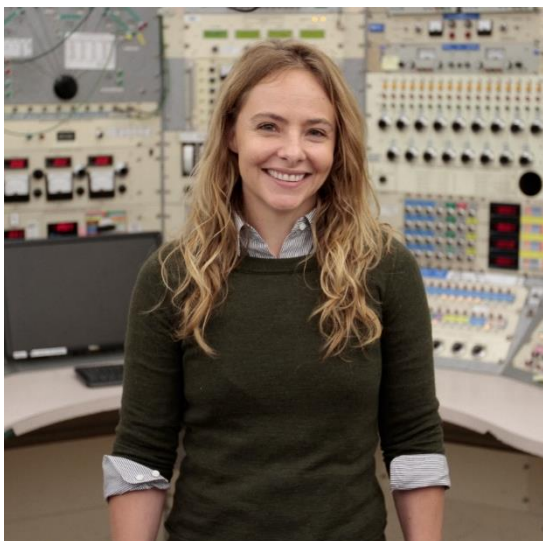


2019 PPNT Speaker Bios



Ambassador Linton F. BROOKS is an independent consultant on national security issues, a non-resident 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, one of the Board of Managers overseeing the operations of the Sandia National Laboratories, and an advisor to three other Department of Energy national laboratories. Ambassador Brooks has six decades of experience in national security, much of it associated with nuclear weapons. 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. 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. He is the author of a number of articles and book chapters on national and nuclear strategy and speaks frequently on these and related issues. Since 2008 he has served as an Expert in Residence during the annual Public Policy and Nuclear Threats program.



Bethany L. GOLDBLUM is an Associate Research Engineer in the Department of Nuclear Engineering at the University of California, Berkeley and Executive Director of the Nuclear Science and Security Consortium, a multi-institution initiative established by the National Nuclear Security Administration to conduct research and development supporting the nation's nonproliferation mission while expanding the talent pipeline. Her research explores fundamental and applied nuclear physics, scintillator characterization, multi-source analytics, experimental wargaming, and nuclear security policy. Goldblum leads the Bay Area Neutron Group, a research team focused on applied neutron physics for nuclear security applications, and founded and directs the Nuclear Policy Working Group, an interdisciplinary team of scholars

developing policy solutions to strengthen global nuclear security. She has been involved with the Public Policy and Nuclear Threats Boot Camp nearly since its inception, and acted as director of the program since 2014. Goldblum maintains active collaborations with the US DOE National Laboratories, and is an affiliate at Lawrence Berkeley, Lawrence Livermore, and Sandia National Laboratories. She is author or co-author of more than 60 scientific publications. Goldblum received a Ph.D. in Nuclear Engineering from the University of California, Berkeley.

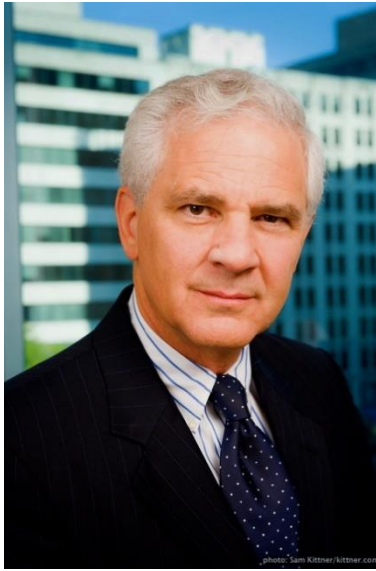


Marv ADAMS is Associate Director at the Institute for National Security and Cybersecurity Education and Research at Texas A&M University. His research interests include computational transport theory, efficient algorithms for massively parallel scientific and engineering calculations, and quantification of uncertainties in predictive science and engineering groups. He received his Ph.D. in Nuclear Engineering from the University of Michigan.



M. Elaine BUNN is a consultant on strategic issues, with 40 years' experience in the U.S. government working on defense policy. She is based in Washington, DC. She addresses international audiences on nuclear policy, extended deterrence, and missile defense. Her writings include articles and book chapters on deterrence, assurance of allies, strategic planning, nuclear policy, missile defense, and preemption. She mentors university students and mid-career professionals, and serves on the Board of Advisors for the CSIS Project on Nuclear Issues (PONI), and as a Senior Mentor for the Project for Emerging Leaders at the Center for the Study of Weapons of Mass Destruction. Bunn served as Deputy Assistant Secretary of Defense for Nuclear and Missile Defense Policy from 2013 to early 2017. Responsibilities included defining requirements for future capabilities, reviewing and adjusting operational

planning, and leading extended deterrence discussions with allies. Bunn, a 1988 graduate of the National War College, received an M.A. from Johns Hopkins School of Advanced International Studies in 1980 and a B.A. from the University of Georgia in 1974. She was a Fulbright Scholar at the Université de Neuchâtel, Switzerland in 1974-75.



Joseph CIRINCIONE is president of Ploughshares Fund, a global security foundation. He is also the host of the Ploughshares Fund podcast, Press the Button. He has worked on nuclear weapons policy in Washington for over 35 years. He is one of the top experts in the field, having authored or edited six books, published hundreds of articles and dozens of reports, and is widely quoted in the media. He is a national security expert for MSNBC and teaches at the Georgetown University Graduate School of Foreign Service. His books include *Nuclear Nightmares: Securing the World Before It Is Too Late*, *Bomb Scare: The History and Future of Nuclear Weapons* and *Deadly Arsenal: Nuclear, Biological and Chemical Threats*. He worked for nine years as professional staff on the U.S. House of Representatives Committees on Armed Services and Government Operations. Prior to joining Ploughshares Fund eleven years ago, he served as vice president for national security at the Center for

American Progress, director for non-proliferation at the Carnegie Endowment for International Peace, and as a senior associate at the Stimson Center. He is a member of the Council on Foreign Relations and a former member of the International Security Advisory Board for Secretaries of State John Kerry and Hillary Clinton.



Toby DALTON is co-director of the Nuclear Policy Program at the Carnegie Endowment. An expert on nonproliferation and nuclear energy, his work addresses regional security challenges and the evolution of the global nuclear order. Dalton's research and writing focuses in particular on South Asia and East Asia. From 2002 to 2010, Dalton served in a variety of high-level positions at the U.S. Department of Energy, including acting director for the Office of Nuclear Safeguards and Security and senior policy adviser to the Office of Nonproliferation and International Security. He also established and led the department's office at the U.S. embassy in

Pakistan from 2008-2009. Dalton previously served as professional staff member to the Senate Foreign Relations Committee, a Luce Scholar at the Institute for Far Eastern Studies in Seoul, a research associate at the National Bureau of Asian Research, and a project associate for the Carnegie Nuclear Policy Program.

FRATONI – Use last year's bio

HECKER – Use last year's bio



Dr. Olli HEINONEN is a senior advisor on science and nonproliferation at FDD. He is the former deputy director general of the International Atomic Energy Agency (IAEA), and head of its Department of Safeguards. Olli is also a member of the non-partisan Iran Task Force. Olli is currently a senior fellow at the Harvard Kennedy School of Government's Belfer Center for Science and International Affairs. His research and teachings include: nuclear non-proliferation and disarmament, verification of treaty compliance, enhancement of the verification work of international organizations, and transfer and control of peaceful uses of nuclear energy. Before joining the Belfer Center in September 2010, Olli served 27 years at the IAEA in Vienna. His posts at the IAEA included director at the Agency's various Operational Divisions, and as inspector, including at the IAEA's overseas

office in Tokyo, Japan. Prior to joining the IAEA, he was a senior research officer at the Technical Research Centre of Finland Reactor Laboratory, where he was in charge of research and development related to nuclear waste solidification and disposal.



Rebecca HERSMAN is director of the Project on Nuclear Issues and senior adviser for the International Security Program. Ms. Hersman joined CSIS in April 2015 from the Department of Defense (DOD), where she served as deputy assistant secretary of defense for countering weapons of mass destruction (WMD) since 2009. In this capacity, she led DOD policy and strategy to prevent WMD proliferation and use, reduce and eliminate WMD risks and respond to WMD dangers. Ms. Hersman was a key leader on issues ranging from the nuclear security summit to the elimination of Syria's chemical weapons to the global health security agenda. She served as DOD's principal policy advocate on issues pertaining to the Biological Weapons Convention,

Chemical Weapons Convention, Nuclear Non-Proliferation Treaty, and Cooperative Threat Reduction Program. Prior to joining DOD, Ms. Hersman was a senior research fellow with the Center for the Study of Weapons of Mass Destruction at the National Defense University from 1998 to 2009. Her primary projects focused on the role of DOD in mitigating the effects of chemical and biological weapons attack, concepts and strategies for eliminating an adversary's WMD programs, as well as proliferation issues facing the United States. Ms. Hersman also founded and directed the WMD Center's Program for Emerging Leaders, an initiative designed to shape and support the next generation of leaders from across the U.S. government with interest in countering weapons of mass destruction. Ms. Hersman previously held positions as an international affairs fellow at the Council on Foreign Relations, a special assistant to the undersecretary of defense for policy, and a member of the House Armed Services Committee

professional staff. She holds an M.A. in Arab studies from Georgetown University and a B.A. from Duke University.

HINGORANI – Use last year’s bio

KIM KNIGHT – Use last year’s bio



Dr. Matthew KROENIG is the Deputy Director of the Scowcroft Center for Strategy and Security at the Atlantic Council and a tenured associate professor of government and foreign service at Georgetown University. He previously served in several positions in the US government, including in the Strategy Office in the Office of the Secretary of Defense and the Strategic Assessments Group at the Central Intelligence Agency. He regularly consults with a range of US government entities. He is the author or editor of seven books, including *The Return of Great Power Competition: Democracy versus Autocracy from the Ancient World to the United States, Russia, and China Today* (Oxford University Press, forthcoming) and *A Time to Attack: The Looming*

Iranian Nuclear Threat (St. Martins Press, 2014). His articles and opinion pieces have appeared in *American Political Science Review*, *Foreign Affairs*, *Foreign Policy*, *International Organization*, *Politico*, the *Wall Street Journal*, the *Washington Post*, and many other outlets. He has previously worked as a fellow at the Council on Foreign Relations, Harvard University, and Stanford University. Dr. Kroenig provides regular commentary for major media outlets, including PBS, NPR, BBC, CNN, and C-SPAN. He is a life member of the Council on Foreign Relations and holds an MA and PhD in political science from the University of California at Berkeley.

John A. LAUDER is an independent consultant on Weapons of Mass Destruction, Nonproliferation, Arms Control, and intelligence analysis and collection. He retired from the United States government in the fall of 2004 with over 33 years of managerial, analytical, and policy experience, principally in the Central Intelligence Agency, National Reconnaissance Office, and as an arms control negotiator. As Deputy Director of the National Reconnaissance Office for National Support, he translated the most pressing security challenges of the nation into requirements for the acquisition and operation of satellite reconnaissance systems. Previously as Director of the DCI Nonproliferation Center and Chief of the DCI Arms Control Intelligence Staff, he oversaw the nonproliferation and arms control monitoring efforts of the Intelligence Community during a time of sweeping international and organizational change. He served subsequently for nine years as a senior manager and corporate officer within Arete' Associates, a research and development company. Mr. Lauder has been awarded the Distinguished Career Intelligence Medal, the



Distinguished Intelligence Medal, the NRO Gold Medal, and the Director of Central Intelligence's Award for his leadership and innovation in collection systems, analytical approaches, and vital national security initiatives and decisions. He has a B.A. Summa Cum Laude from Hiram College and an M.A. in International Relations from Yale University



Dr. Herb 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 policy-related dimensions of cybersecurity and cyberspace, and he is particularly interested in the use of offensive operations in cyberspace as instruments of national policy and in the security dimensions of information warfare and influence operations on national security. In addition to his positions at Stanford University, he is Chief Scientist, Emeritus for the Computer Science and Telecommunications Board, National Research Council (NRC) of the National Academies, where

he served from 1990 through 2014 as study director of major projects on public policy and information technology, and Adjunct Senior Research Scholar and Senior Fellow in Cybersecurity (not in residence) at the Saltzman Institute for War and Peace Studies in the School for International and Public Affairs at Columbia University; and a member of the Science and Security Board of the Bulletin of Atomic Scientists. 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 strategic arms control issues. He received his doctorate in physics from MIT.

MOWATT-LARSENEN – Use last year’s bio

RICHARD NEPHEW – Use last year’s bio

JOE PILAT – Use last year’s bio



Andrew REDDIE is a doctoral candidate in the Charles and Louise Travers Department of Political Science at the University of California, Berkeley. He currently serves as deputy director for the Nuclear Policy Working Group and as a researcher for the Department of Nuclear Engineering, Goldman School of Public Policy, Center for Long-Term Cybersecurity, and Berkeley Asia-Pacific Study Center at UC Berkeley as well as a researcher with the Project for Nuclear Gaming. He is also a Nuclear Science and Security Consortium Fellow and Bridging the Gap Fellow. He holds an MPhil in International Relations from Oxford University as well as an M.A. and a B.A. (hons.) from the University of California, Berkeley. Previously, he held research and editorial roles at the Center for Global Security Research at Lawrence Livermore National Laboratory, *Business and Politics*, the Canadian International Council, and the Council on Foreign Relations in Washington, DC.

BRAD ROBERTS – Use last year’s bio

LAURA ROCKWOOD – Use last year’s bio



Scott D. SAGAN is the Caroline S.G. Munro Professor of Political Science, the Mimi and Peter Haas University Fellow in Undergraduate Education, and Senior Fellow at the Center for International Security and Cooperation and the Freeman Spogli Institute at Stanford University. He also serves as Chairman of the American Academy of Arts and Sciences’ Committee on International Security Studies. Before joining the Stanford faculty, Sagan was a lecturer in the Department of Government at Harvard

University and served as special assistant to the director of the Organization of the Joint Chiefs of Staff in the Pentagon. Sagan has also served as a consultant to the office of the Secretary of Defense and at the Sandia National Laboratory and the Los Alamos National Laboratory. In 2018, Sagan received the Andrew Carnegie Fellowship from the Carnegie Corporation of New York. In 2017, he received the International Studies Association’s Susan Strange Award which

recognizes the scholar whose “singular intellect, assertiveness, and insight most challenge conventional wisdom and intellectual and organizational complacency” in the international studies community. Sagan was also the recipient of the National Academy of Sciences William and Katherine Estes Award in 2015, for his work addressing the risks of nuclear weapons and the causes of nuclear proliferation. The award, which is granted triennially, recognizes “research in any field of cognitive or behavioral science that advances understanding of issues relating to the risk of nuclear war.” In 2013, Sagan received the International Studies Association's International Security Studies Section Distinguished Scholar Award.

JOHN SCOTT – Use last year’s bio

USE LAST YEAR’S PHOTO: **Mark SCHANFEIN** joined Idaho National Laboratory (INL) in September 2008, as their Senior Nonproliferation Advisor, after a 20-year career at Los Alamos National Laboratory (LANL) where, in his last role, he served as Program Manager for Nonproliferation and Security Technology. During those 20 years, Mark also spent 10 years working in the LANL Plutonium Facility. He served as a technical expert on the ground in the DPRK during the disablement activities resulting from the 6-Party Talks under the Bush administration. He has previously worked for Pacific Northwest National Laboratory (PNNL) for 3 years also as senior advisor working on a wide variety of technical and policy challenges in the nonproliferation regime. With 40 years of experience in international and domestic safeguards, his current focus is on conducting R&D to strengthen the IAEA State Level Concept, develop the foundation for effective international safeguards on advanced reactors, and other novel safeguards challenges in support of the IAEA.

NINA TANNENWALD – Use last year’s bio



William TOBEY was Deputy Administrator for Defense Nuclear Nonproliferation at the National Nuclear Security Administration from 2006-2009. There, he managed the U.S. government's largest program to prevent nuclear proliferation and terrorism by detecting, securing, and disposing of dangerous nuclear material. Mr. Tobey also served on the National Security Council Staff under three presidents, in defense policy, arms control, and counter-proliferation positions. He has participated in international negotiations ranging from the START talks with the Soviet Union to the Six Party Talks with North Korea.

He also has ten years experience in investment banking and venture capital. He serves on the Nuclear and Radiation Studies Board of the National Academies of Sciences Engineering and Medicine. He chairs the board of the World Institute for Nuclear Security.

CHRIS TWOMEY – Use last year’s bio



Dr. Kristin VEN BRUUSGAARD is Postdoctoral Fellow (Assistant Professor) of Political Science at the University of Oslo where she is a part of the Oslo Nuclear Project. Her research focuses on Russian nuclear strategy, deterrence and crisis dynamics. She has previously been a Nuclear Security Postdoctoral Fellow and a Stanton Nuclear Security Predoctoral Fellow at the Center for International Security and Cooperation (CISAC), Stanford University, a Research Fellow at the Norwegian

Institute for Defence Studies (IFS), and a Senior Security Policy Analyst in the Norwegian Armed Forces. She holds a Ph.D in Defence Studies from King's College London and an MA in Security Studies from Georgetown University. Her work has been published in *Security Dialogue*, *Survival*, *War on the Rocks*, *Texas National Security Review*, *Bulletin of the Atomic Scientists*, *Parameters* and by *The National Interest*. She is currently writing a book on Russian nuclear strategy after the Cold War.

JOHN WARDEN – Use bio from last year



Major General **Robert E. WHEELER** is currently serving on the staff of the Secretary of Defense as the Deputy Chief Information Officer for Command, Control, Communications and Computers (C4) and Information Infrastructure Capabilities (DCIO for C4IIC). General Wheeler was commissioned through the Reserve Officer Training Corps. A command pilot with more than 5,000 hours in multiple aircrafts. His staff assignments include air campaign analyst for the Air Force Studies and Analysis Agency, member of the Chief of Staff of the Air Force's Operations Group (CX), Headquarters U.S. Air Force and division chief for the Joint Chiefs of Staff regarding European security issues. He has also been the senior military adviser to the U.S. Mission for the Organization for Security and Cooperation in Europe. The general was previously the Deputy Director for Nuclear Operations, U.S. Strategic Command, Offutt Air Force Base, Neb. In this capacity, he is the principal

adviser to the commander on issues pertaining to strategic deterrence and nuclear operations. He served as the command's principal flag officer responsible for management and oversight of the nuclear enterprise. He has previously commanded the 325th Bomb Squadron and 509th Operations Group at Whiteman AFB, Mo. He commanded the 2nd Bomb Wing at Barksdale AFB, La., where he was responsible for providing B-52 aircraft, aircrews and associated support personnel and

resources to conduct global bomber operational taskings. He also commanded the 509th Bomb Wing, Whiteman AFB, Mo., where he was responsible for the combat readiness of the Air Force's only B-2 wing and provided logistics support for the Air Force Reserve 442nd Fighter Wing Missouri Air National Guard 131st Bomb Wing; Missouri Army National Guard 1st Battalion, 135th Aviation Unit; and the Navy Reserve Maritime Expeditionary Security Division 13. He received his B.S. in Engineering from the University of Wisconsin-Madison.

DEAN WILKENING – Use last year’s bio



Dr. Heather WILLIAMS is a Lecturer in the Defence Studies Department Centre for Science and Security Studies at King's College London and an Associate Fellow at the Royal United Services Institute. From 2018 to 2019 Dr. Williams served as a Specialist Advisor to the House of Lords International Relations Committee inquiry into the Nuclear Non-Proliferation Treaty and Disarmament. She is also an adjunct Research Staff Member in the Strategy, Forces, and Resources Division of the Institute for Defense Analyses in Alexandria, Virginia, where she has worked since 2008 on U.S. nuclear policy for the U.S. Department of Defense. She currently leads projects on the impact of emerging technology on deterrence, the future of arms control, risks of social media to conflict escalation, and the Nuclear Non-Proliferation Treaty. Her research is supported by the MacArthur Foundation, Carnegie Corporation of New

York, U.S. Department of Defense, and U.S. Department of Energy. Williams has a PhD from the Department of War Studies at King's College London, an MA in security policy studies from the George Washington University, and a BA in international relations and Russian studies from Boston University. Her most recent publications include "Strategic Stability, Uncertainty, and the Future of Arms Control" in *Survival* (March 2018) and "Asymmetric Arms Control: Scenarios for Hypersonic Glide Vehicles" in *Journal of Strategic Studies* (autumn 2019).

Gregory WEAVER, a career member of the Senior Executive Service, is the Deputy Director for Strategic Stability within the Directorate for Strategy, Plans, and Policy, Joint Staff (J-5). In this role, he is responsible for the formulation of Joint Staff positions and recommendations regarding strategic deterrence, nuclear policy, Department of Defense efforts to counter weapons of mass destruction, strategic arms reduction negotiations and agreements, as well as other international negotiations and agreements. Prior to joining the Joint Staff, Mr. Weaver served as Principal Director for Nuclear and Missile Defense Policy in the Office of the Under Secretary of Defense for Policy (OSD/Policy). In that position he was responsible for all policy matters involving U.S. nuclear and missile defense forces, strategy, plans, and requirements. Before joining OSD/Policy, Mr. Weaver was the Deputy Director of Plans and Policy (J-5), U.S. Strategic Command, located in Offutt Air Force Base, Nebraska. He was the Senior Technical Adviser for Policy, Strategy, and Plans to the Commander, U.S. Strategic Command, and to the Director, Plans and Policy (J-5). In

that capacity he was responsible for shaping and implementing national security policies, strategies, and plans in accordance with the execution of the command's assigned missions. He also assisted in formulating and implementing strategy for U.S. Strategic Command's Unified Command Plan assigned missions, which includes strategic deterrence, global strike, space operations, cyberspace operations, countering weapons of mass destruction, missile defense, and intelligence, surveillance and reconnaissance (ISR). Mr. Weaver earned a bachelor's degree at Georgetown University School of Foreign Service and a master's degree at the University of Pennsylvania. He was a legislative assistant for Foreign and Defense Policy for Congressmen Pete Stark and Charles Bennett, and a legislative assistant for Defense Policy under Senator Carl Levin. He worked at Science Applications International Corporation (SAIC) for 18 years as a Senior Analyst, Project Manager, Division Manager and Assistant Vice President. He and his wife have two adult children.