

PUBLIC POLICY
AND
NUCLEAR THREATS

TRAINING THE NEXT GENERATION

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About the Participants

Taylor Benjamin-Britton is a second-year Ph.D. student in political science at Temple University. Her research interest is in non-state actor impact on state identity and on the formulation of domestic and international policy and law. Her current research program addresses state identity formation around terrorist WMD use. Benjamin-Britton received her B.A. in political science from Temple University in 2007.

Agnieszka Czeszumaska is a graduate student at UC Berkeley, pursuing a Ph.D. in nuclear engineering. Having a B.A. in physics and astrophysics has given her an in-depth knowledge of basic science, while her previous research experience has steered her into radiation detectors research and development, including development of detectors for nuclear science applications. Currently, her research is focused on nuclear physics applications for nonproliferation and nuclear power. She is also interested in the political and environmental implications of nuclear power.

Joel Forrester is a research scientist at Pacific Northwest National Laboratory whose work focuses on monitoring technologies for nuclear test-ban verification and preventing nuclear smuggling. Forrester led quantitative analysis method development efforts for biological and chemical weapons detection and classification in his first years at PNNL. He made the transition to nuclear nonproliferation projects when he joined the technical team developing noble gas processing and quantification systems in support of the CTBTO's International Monitoring System.

Forrester has helped manage PNNL's noble gas (xenon) system development portfolio, has been recognized for his leadership in border interdiction programs in Eastern Europe and Central Asia, and was recently invited to contribute to the draft Concept of Operations plan for the CTBTO's on-site inspection regime. A particular interest lies in bridging the gap between scientists and policy makers. Forrester has a B.S. in chemistry and is currently completing a M.S. in chemistry at Idaho State University.

Nicola Horsburgh is a doctoral candidate and British Inter-university Chinese Centre student in the Department of Politics and International Relations at the University of Oxford, St. Antony's College. Her thesis examines contemporary Chinese nuclear weapons behavior in the global nuclear order. Between 2003 and 2006, Horsburgh was a research fellow at King's College London, working for Professor Wyn

Bowen on nonproliferation in Northeast Asia. During this period she also worked with Professor Javier Jordan of the University of Granada on jihadist terrorism in Spain, publishing in journals including *Studies in Conflict & Terrorism*. In 2003, she interned at the Verification Research, Training, and Information Centre (VERTIC), contributing to a project on the implementation of the Biological Weapons Convention. Horsburgh holds a First B.Sc. Econ (Hons) in international politics and strategic studies from the University of Aberystwyth, an M.Sc. in international relations from the London School of Economics and Political Science, and an M.Phil. (distinction) in Chinese studies from the University of Oxford. She has also studied at the University of Southern California and the University of Beijing. She is currently a visiting fellow at the East Asia Nonproliferation Program at the Center for Nonproliferation Studies in Monterey, California. For academic year 2010–2011 she will be based at Tsinghua University in Beijing.

Jeff Kaplow is a Ph.D. student in political science at UC San Diego, where his research interests include international conflict, nuclear nonproliferation, and conflict bargaining. Before coming to UC San Diego, Kaplow worked for the U.S. government on nuclear proliferation issues. He has also evaluated regional economic development efforts for a national policy research firm and analyzed international environmental negotiations for Cambridge Energy Research Associates. Kaplow earned his master's degree in international security policy from Harvard's Kennedy School and has a B.A. in political science from Yale.

Myung Chul Kim is a Ph.D. student in political science at UCLA. His research interests include causes and consequences of nuclear proliferation, and international security. Most recently, he has co-authored journal articles on U.S. coercive diplomacy and China's influence in the North Korean nuclear crisis. He received his B.A. and M.A. in political science from Yonsei University.

Kim Knight is a post-doctoral researcher at Lawrence Livermore National Laboratory. Her main research is focused in nuclear forensics, analyzing nuclear and associated materials for clues about the origins, locations, or processes. She is also involved in the development of new techniques or ways to look at these types of materials. Knight has been a participant in collaborative efforts with former weapons states such as Ukraine, and is excited to gain some depth regarding the policy side of nuclear topics.

Knight is a geologist by training, and also works with chemical and material characterization of bits of materials from meteorites and stars. She was an undergraduate at Carleton College in Minnesota, received her Ph.D. from UC Berkeley (including several courses in their nuclear engineering department, as well as a national security policy course), and then went on to work at the University of Chicago and Argonne National Laboratory, before working at LLNL.

Anya Loukianova is a second-year doctoral student at the University of Maryland's School of Public Policy and a graduate assistant at the Center for International and Security Studies at Maryland (CISSM). Her research deals with U.S.–Russian and NATO–Russian relations and the role of security institutions in promoting Euro-Atlantic cooperation. Before joining UMD, Loukianova was a research associate at the James Martin Center for Nonproliferation Studies (CNS) in Monterey, California, where she focused on nuclear and missile developments in Russia and the NIS states and U.S. nonproliferation policies, par-

ticularly civil highly enriched uranium minimization. Loukianova holds an M.P.I.A. from the University of Pittsburgh's Graduate School of Public and International Affairs. She is originally from Tula, Russia.

Philip Maxon is the program associate for the Nuclear Strategy and Nonproliferation Initiative at the New America Foundation. He focuses on specific policy issues related to reducing the role of nuclear weapons in international security, including the nonproliferation regime, U.S. stockpile maintenance, strategic posture, and arms control treaties.

Prior to working at New America, Maxon worked with Prof. Catherine Kelleher at the University of Maryland, where he focused on the international aspect of reducing the role of nuclear weapons, as well as with the Ploughshares Fund, the British American Security Information Council, and the Arms Control Association, where he focused on nuclear weapons policy.

Maxon received his master's in public policy from the University of Maryland and his bachelor's degrees in international relations and Theory, Arabic, and history from Ohio State University.

Sitara Noor is conducting research in the field of nuclear security. Prior to this, she worked as a lecturer in the Department of International Relations at National University of Modern Languages (NUML), Islamabad and delivered lectures on defense and strategic studies, conflict resolution, and peace studies, among others. Presently she is associated with NUML as a visiting faculty in the same department.

Noor holds an M.Sc degree in Defense and strategic studies from Quaid-I-Azam University, Islamabad. While at university, she has worked as a research assistant with Dr. Nazir Hussian and conducted extensive research on strategic stability in South Asia and the India-Pakistan peace process. Her present work broadly includes the areas of nuclear energy, nuclear safety and security, and nonproliferation issues.

Judith Norton is a graduate research associate at the Center for International Trade and Security (CITS), while she is a Ph.D. student in international affairs at the University of Georgia (UGA). At CITS Norton has conducted research on various aspects of nonproliferation, nuclear disarmament, and strategic trade controls. In support of the center's work for the U.S. government, Norton wrote reports on the national export control systems of countries in Africa, Asia, Europe, and the Middle East. Further, she supported the center's ongoing work in Asia by working in China in various capacities, including writing reports on behalf of the center's Chinese clients and serving as a lecturer at China Foreign Affairs University. In addition to her work at CITS, Norton teaches in the Department of International Affairs at UGA, including courses on international law and American foreign policy. Her research interests include East Asian politics and security, nonproliferation and export controls, nuclear disarmament, and American foreign policy.

Ki-Tae Park is a lieutenant colonel of the Republic of Korea Air Force and a fourth-year doctoral candidate at the Pardee RAND Graduate School in Santa Monica, California. He has served in the Korean Air Force for the last 15 years as a fighter pilot of KF-5E/F aircraft (total flight hours: 2,000) and has participated in a number of combined joint air operations on the Korean theater with the U.S. Air Force. Be-

fore joining the Ph.D. program at RAND, he acquired his master's degree in international relations from the Korea National Defense University in Seoul and conducted a variety of joint operation planning and execution projects.

Park is now working on his dissertation, which will analyze North Korea's decision-making process on its nuclear weapons development program using two conflicting decision models—rational choice and cognitive choice—and establish effective and adaptive countermeasures for the ROK–U.S. combined forces on the Korean theater. After finishing the program, he will work at the Ministry of Defense of South Korea to make military policies regarding force structure, acquisition, and solidifying alliances among three nations in the region—the ROK, the United States, and Japan.

John Ready will begin work on his Ph.D. in nuclear engineering at UC Berkeley this fall. His main research interests are bionuclear and radiological physics, medical imaging, and radiation cancer therapy. Prior to starting work at UC Berkeley, Ready served in the U.S. Navy as a nuclear-trained surface warfare officer. While in the Navy, he served aboard the guided-missile destroyer USS Nitze (DDG 94) and the nuclear-powered aircraft carrier USS Carl Vinson (CVN 70), where he supervised operations of the ship's nuclear propulsion plants. Ready has a B.S. in chemistry from California State University Sacramento, and participated in the 2003 Nuclear and Radiochemistry Summer School at San Jose State University, as well as the 2010 Nuclear Forensics Summer Program at University of Nevada, Las Vegas.

Seth Robinson is a Ph.D. candidate in international relations at Georgetown University. His areas of research include risk and threat perception, nuclear proliferation, and terrorism. Prior to attending Georgetown, Robinson was a staff member of the House Committee on Foreign Affairs. He received his B.A. from Harvard in 2006.

Patricia Shamai is currently completing her Ph.D. at the University of Southampton (UK). Her thesis, "The Stigmatization of Certain Contemporary Weapons of War: Its Origins, Evolution and Development," examines how and why a stigma has emerged towards these weapons and the possible implications for this for the future. While working on her Ph.D., Shamai has been a teaching fellow at both the University of Southampton and the University of Portsmouth. She has also worked for more than ten years for the UK National Health Service and spent a year working as an intern for the British American Security Information Council.

Shamai has a B.A. Hons in international relations and strategic studies from Lancaster University. While studying at Lancaster, she was selected to spend a year studying in the United States at the University of Nebraska, Lincoln. She also has a M.Sc. in international relations and security studies from the University of Southampton. Her main areas of interest are nuclear nonproliferation and arms control, WMD terrorism, emergency planning, and atomic energy.

Aaron Shreve is a Ph.D. student in political science at UC Davis, concentrating in international relational and methodology. His research interests include the effects of domestic politics on nuclear weapons, nonproliferation, nuclear energy transfers, and experimental methods in international relations. Shreve

holds a master's degree in public and international affairs with a concentration in security and intelligence studies from the Graduate School of Public and International Affairs at the University of Pittsburgh. During that time he also worked on conventional nonproliferation at the Department of State intern. Originally from North Dakota, Shreve earned his B.A. summa cum laude from Minnesota State University Moorhead.

Pete Sprunger recently finished a Ph.D. in nuclear physics at Oregon State University. His doctoral work focused on neutrons emitted in conjunction with fission created by the bombardment of Uranium-238 with deuterons. Over the past year he began the transition from basic research to policy with an internship at the American Association for the Advancement of Science Center for Science, Technology, and Security Policy. There he studied a myriad of issues focusing primarily on the issue of seismic decoupling in underground explosions and the mathematics behind the verification scenarios in the new START treaty. His future goal is to work on international nuclear agreements either within the US government or through an NGO.

Prior to graduate school, Sprunger spent one year with the nuclear chemistry group at Indiana University where he was the primary designer of the detector system FIRST. He received a bachelor's degree with honors from Goshen College with a major in physics and a minor in mathematics. His honors thesis explored the drag force from stationary and wind-milling propellers.

Rachel Whitlark is a third-year Ph.D. student in political science at the George Washington University. Her general research interests include international security, weapons proliferation, and foreign policy decision making. Her dissertation project looks at the conditions under which a state considers and will use preventive military force as a counter-proliferation strategy against nuclear weapons programs in other states. She holds a master's degree from Stanford University and a bachelor's from George Washington. Whitlark is originally from Philadelphia, Pennsylvania.

Thomas Young is a research associate at the Center for Nonproliferation Studies (CNS) in Monterey, California. His research focuses on nuclear and missile developments in the Former Soviet Union, NATO nuclear weapons policy, missile defense, and the foreign and defense policies of the United Kingdom.

Prior to joining CNS in September 2009, Young worked as an intern in the Nuclear Policy Directorate at NATO headquarters where he focused on the alliance's nonproliferation policies and nuclear deterrence posture. He has also worked as a research assistant at the International Centre for Security Analysis at King's College London, and as an intern at the International Institute for Strategic Studies (IISS) in London.

Young received an M.A. from the Department of War Studies at King's College London, and graduated with M.A. First Class Honors in international relations and Russian from the University of St. Andrews in 2006.