

Curriculum Vitae

Matthew Bunn

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Academic and Professional Positions

HARVARD KENNEDY SCHOOL	CAMBRIDGE, MA
James R. Schlesinger Professor of the Practice of Energy, National Security, and Foreign Policy, 2020-	
Professor of Practice, 2013-2020	
Associate Professor of Public Policy, 2008-2013	
Senior Research Associate, 2002-2008	
Assistant Director, Science, Technology, and Public Policy Program, 1997-2001	
OFFICE OF SCIENCE AND TECHNOLOGY POLICY	WASHINGTON, D.C.
Advisor, 1994-1996	
NATIONAL ACADEMY OF SCIENCES	WASHINGTON, D.C.
Study Director, 1992-1996	
ARMS CONTROL ASSOCIATION	WASHINGTON, D.C.
Editor, <i>Arms Control Today</i> , and Associate Director for Publications, 1990-1992	
Senior Research Analyst, 1986-1990	
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	CAMBRIDGE, MA
Research Fellow, Center for International Studies, 1985-1986	
Research Associate, Program in Science and Technology for International Security, 1981-1985	

Education

MASSACHUSETTS INSTITUTE OF TECHNOLOGY	CAMBRIDGE, MA
Ph.D. in Technology, Management, and Policy, 2007	
Dissertation: "Guardians at the Gates of Hell: Estimating the Risks of Nuclear Theft and Terrorism, and Identifying the Highest-Priority Risks of Nuclear Theft."	
SM and SB in Political Science, specializing in defense and arms control, 1985	
Thesis: "Strategic Stability: Theory and Measurement for Arms Control."	

Honors

Fellow, American Association for the Advancement of Science
 Joseph A. Burton Forum Award, American Physical Society (2007)
 Hans Bethe Award, Federation of American Scientists (2007)

Other Professional Activities

Committee on International Security and Arms Control, National Academies of Sciences, Engineering, and Medicine, 2014-
 Advisory Board, International Nuclear Security Forum, 2020-
 Gender Champion, Gender Champions in Nuclear Policy, 2020-
 Board of Directors, Arms Control Association, 1999-
 Committee on Risk Analysis Methods for Nuclear War and Nuclear Terrorism, National Academies of Sciences, Engineering, and Medicine, 2021-2022
 Advisory Committee, Nuclear Innovation Alliance, 2018-2020
 Nuclear Energy Advisory Committee, U.S. Department of Energy, 2011-2020
 Steering Committee, Fissile Material Working Group, 2009-2020
 MacArthur Foundation, Nuclear Challenges External Advisor, 2016-2019
 Strategic Advisory Board, Global Security Directorate, Oak Ridge National Laboratory, 2018-2019
 Task Force on Nuclear Nonproliferation, Secretary of Energy Advisory Board, 2013-2015
 Co-author, chapter on “Nuclear Energy,” Global Energy Assessment, International Institute for Applied Systems Analysis, 2008-2011
 Editorial Board, *Innovations: Technology, Governance, Globalization*, 2005-2010
 Board of Directors, Partnership for Global Security, 1997-2011
 Committee on Internationalization of the Civilian Nuclear Fuel Cycle, National Academy of Sciences-Russian Academy of Sciences, 2006-2008
 Principal drafter, Commission of Eminent Persons, International Atomic Energy Agency, 2007-2008
 Board of Directors, Center for Arms Control and Nonproliferation, 1998-2006
 Advisory Committee on Nuclear Nonproliferation, University of Chicago, 2004
 Task Force on Technological Opportunities for Proliferation-Resistant Systems, Nuclear Energy Research Advisory Committee, U.S. Department of Energy, 1999-2000
 Co-author, chapter on “Advanced Energy Supply Technologies,” World Energy Assessment, UN Environmental Program, 1998-2000
 Chair, Immobilization Form Peer Review Panel, Lawrence Livermore National Laboratory, 1997
 U.S. Executive Secretary, U.S.-Russian Independent Scientific Commission on Disposition of Excess Weapons Plutonium, 1996-1997

Selected Consulting

Macarthur Foundation, Nuclear Threat Initiative, Oak Ridge National Laboratory, Pacific Northwest National Laboratory, Lawrence Livermore National Laboratory, Brookhaven National Laboratory, Bechtel National Corporation

Selected Reviewing

National Research Council; *Proceedings of the National Academy of Sciences*; *International Security*; *Science*; *Energy Policy*; *Nonproliferation Review*; *Science and Global Security*; MIT Press; Stanford University Press.

Matthew Bunn

Publications

Peer-Reviewed Books

Matthew Bunn, Martin B. Malin, William C. Potter, and Leonard S. Spector, eds., *Preventing Black-Market Trade in Nuclear Technology* (Cambridge, U.K.: Cambridge University Press, 2018). 363 pp.

Matthew Bunn and Scott D. Sagan, eds., *Insider Threats* (Ithaca, N.Y.: Cornell University Press, 2017). 216 pp.

Laura Diaz Anadon, Matthew Bunn, and Venkatesh Narayanamurti, eds, *Transforming U.S. Energy Innovation* (Cambridge, U.K.: Cambridge University Press, 2014). 231 pp.

Other Books and Major Reports

Matthew Bunn, Nickolas Roth, and William H. Tobey, *Revitalizing Nuclear Security in an Era of Uncertainty* (Cambridge, Mass.: Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, January 2019). 206 pp.

Matthew Bunn, William H. Tobey, Martin B. Malin, and Nickolas Roth, *Preventing Nuclear Terrorism: Continuous Improvement or Dangerous Decline?* (Cambridge, Mass.: Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, March 2016). 152 pp.

Matthew Bunn, Hui Zhang, and Li Kang, *The Cost of Reprocessing in China* (Cambridge, Mass.: Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, January 2016). 84 pp.

Laura Diaz Anadon, Matthew Bunn, Gabriel Chan, Melissa Chan, Charles Jones, Ruud Kempener, Audrey Lee, Nathaniel Logar, and Venkatesh Narayanamurti, *Transforming U.S. Energy Innovation* (Cambridge, Mass.: Energy Technology Innovation Policy, Belfer Center for Science and International Affairs, Harvard Kennedy School, November 2011). 340 pp.

Matthew Bunn and Vyacheslav P. Kuznetsov, directors, and Graham T. Allison, Andrei Yu. Gagarinski, Martin B. Malin, Steven E. Miller, Andrew Newman, Nikolai N. Ponomarev-Stepnoi, Vladimir M. Schmelev, William H. Tobey, Victor F. Tsibulski, and Evgeniy P. Velikhov, *Promoting Safe, Secure, and Peaceful Growth of Nuclear Energy: Next Steps for Russia and the United States* (Cambridge, Mass.: Belfer Center for Science and International Affairs, Harvard Kennedy School, and Russian Research Center “Kurchatov Institute,” October 2010). 73 pp.

Matthew Bunn, Anatoli Diakov, Ming Ding, Tadahiro Katsuta, Charles McCombie, M.V. Ramana, Tatsujiro Suzuki, Susan Voss, and Suyuan Yu, Frank von Hippel, ed., *The Uncertain Future of Nuclear Energy* (Princeton: International Panel on Fissile Materials, September 2010). 107 pp.

Matthew Bunn, *Securing the Bomb 2010: Securing All Nuclear Materials in Four Years* (Cambridge, Mass., and Washington, D.C.: Project on Managing the Atom, Belfer Center for

Science and International Affairs, Harvard Kennedy School, and Nuclear Threat Initiative, April 2010). 115 pp.

U.S. Committee on Internationalization of the Civilian Nuclear Fuel Cycle, National Academy of Sciences and National Research Council, and Russian Committee on Internationalization of the Nuclear Fuel Cycle, Russian Academy of Sciences, *Internationalization of the Nuclear Fuel Cycle: Goals, Strategies, and Challenges* (Washington, D.C.: National Academy Press, 2009) 206 pp. (Matthew Bunn, U.S. committee member.)

Matthew Bunn, *Securing the Bomb 2008* (Cambridge, Mass., and Washington, D.C.: Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, and Nuclear Threat Initiative, November 2008). 183 pp.

Matthew Bunn, *Securing the Bomb 2007* (Cambridge, Mass., and Washington, D.C.: Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, and Nuclear Threat Initiative, September 2007). 166 pp.

Matthew Bunn and Anthony Wier, *Securing the Bomb 2006* (Cambridge, Mass., and Washington, D.C.: Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, and Nuclear Threat Initiative, July 2006). 171 pp.

Matthew Bunn and Anthony Wier, *Securing the Bomb 2005: The New Global Imperatives* (Cambridge, Mass., and Washington, D.C.: Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, and Nuclear Threat Initiative, May 2005). 121 pp.

Matthew Bunn and Anthony Wier, *Securing the Bomb: An Agenda for Action* (Washington, D.C.: Nuclear Threat Initiative and the Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School May 2004). 109 pp.

Matthew Bunn, Steve Fetter, John P. Holdren, and Bob van der Zwaan, *The Economics of Reprocessing vs. Direct Disposal of Spent Nuclear Fuel* (Cambridge, MA: Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, December 2003). 117 pp.

Matthew Bunn, Anthony Wier, and John P. Holdren, *Controlling Nuclear Warheads and Materials: A Report Card and Action Plan* (Washington, D.C.: Nuclear Threat Initiative and the Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, March 2003). 189 pp.

Matthew Bunn, John P. Holdren and Anthony Wier, *Securing Nuclear Weapons and Materials: Seven Steps for Immediate Action* (Cambridge, MA: Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, and Nuclear Threat Initiative, May 2002). 78 pp.

Matthew Bunn, John P. Holdren, Allison Macfarlane, Susan E. Pickett, Atsuyuki Suzuki, Tatsujiro Suzuki, and Jennifer Weeks, *Interim Storage of Spent Nuclear Fuel: A Safe, Flexible, and Cost-Effective Approach to Spent Fuel Management* (Cambridge, MA: Project

on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, and Project on Sociotechnics of Nuclear Energy, University of Tokyo, June 2001). 127 pp.

Oleg Bukharin, Matthew Bunn, and Kenneth N. Luongo, *Renewing the Partnership: Recommendations for Accelerated Action to Secure Nuclear Material in the Former Soviet Union* (Washington, DC: Russian-American Nuclear Security Advisory Council, August 2000). 88 pp.

Matthew Bunn, *The Next Wave: Urgently Needed New Steps to Control Warheads and Fissile Material* (Washington DC: Carnegie Endowment for International Peace and Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, April 2000). 109 pp.

Nonproliferation and Arms Control Assessment of Weapons-Usable Fissile Material Storage and Excess Plutonium Disposition Alternatives, DOE/NN-0007 (Washington DC: U.S. Department of Energy, January 1997). 232 pp. (Matthew Bunn, principal author.)

Panel on U.S.-FSU Cooperation to Protect, Control, and Account for Weapons-Usable Nuclear Materials, President's Committee of Advisors on Science and Technology, *Securing Weapons-Usable Nuclear Materials in the Former Soviet Union: Urgent Measures to Prevent Nuclear Proliferation (U)*. (Washington DC: Office of Science and Technology Policy, March 28, 1995). (Secret/NoFORN.) (Matthew Bunn, Study Director.)

Panel on Reactor-Related Options for the Disposition of Excess Weapons Plutonium, Committee on International Security and Arms Control, National Academy of Sciences, *Management and Disposition of Excess Weapons Plutonium: Reactor-Related Options* (Washington DC: National Academy Press, 1995). 418 pp. (Matthew Bunn, Study Director.)

Committee on International Security and Arms Control, National Academy of Sciences, *Management and Disposition of Excess Weapons Plutonium* (Washington DC: National Academy Press, 1994). 275 pp. (Matthew Bunn, Study Director.)

Matthew Bunn, *Foundation for the Future: The ABM Treaty and National Security*. (Washington, DC: Arms Control Association, June 1990). 222 pp.

Matthew Bunn, *Technology of Ballistic Missile Reentry Vehicles* (Cambridge, MA: Program in Science and Technology for International Security, Report # 11, Massachusetts Institute of Technology, March 1984). 82 pp. (Also published in Kosta Tsipis and Penny Janeway, eds., *Review of U.S. Military Research and Development: 1984* (Washington DC: Pergamon-Brassey's, 1984).)

Matthew Bunn and Kosta Tsipis, *Ballistic Missile Guidance and Technical Uncertainties of Countersilo Attacks* (Cambridge, MA: Program in Science and Technology for International Security, Report #9, Massachusetts Institute of Technology, August 1983). 164 pp.

Peer-Reviewed Journal Articles

Aaron Arnold, Matthew Bunn, Caitlin Chase, Steven E. Miller, Rolf Mowatt-Larssen, and William H. Tobey, "The Iran Nuclear Archive: Impressions and Implications," *Intelligence and National Security*, Vol. 36, No. 2 (2021), pp. 230-242.

Matthew Bunn and Dmitri Kovchegin, "Nuclear Security in Russia: Can Progress be Sustained?" *Nonproliferation Review*, Vol. 24, No. 5-6 (Spring 2018), pp. 527-551.

Matthew Bunn and Kathryn M. Glynn, "Preventing Insider Theft: Lessons From the Casino and Pharmaceutical Industries," *Journal of Nuclear Materials Management*, Vol. 41, No. 3 (Spring 2013), pp. 4-16.

Laura Diaz Anadon, Valentina Bosetti, Matthew Bunn, Michela Catenacci, and Audrey Lee, "Expert Judgments about RD&D and the Future of Nuclear Energy," *Environmental Science & Technology*, Vol. 46, No. 21 (November 2012), pp. 11497-11504.

Matthew Bunn and Olli Heinonen, "Preventing the Next Fukushima," *Science*, Vol. 333 (16 September 2011), pp. 1580-1581.

Matthew Bunn and E.P. Maslin, "All Stocks of Weapons-Usable Nuclear Materials Worldwide Must be Protected Against Global Terrorist Threats," *Journal of Nuclear Materials Management*, Vol. 39, No. 2 (Winter 2011), pp. 21-27.

Matthew Bunn, "A Mathematical Model of the Risk of Nuclear Terrorism," *Annals of the American Academy of Political and Social Science*, Vol. 607 (September 2006), pp. 103-120.

Matthew Bunn and Anthony Wier, "Terrorist Nuclear Weapon Construction: How Difficult?" *Annals of the American Academy of Political and Social Science*, Vol. 607, September 2006, pp. 133-149.

Matthew Bunn, Steve Fetter, John P. Holdren, and Bob van der Zwaan, "The Economics of Reprocessing v. Direct Disposal of Spent Nuclear Fuel," *Nuclear Technology*, Vol. 150, No. 3 (June 2005), pp. 209-230.

Matthew Bunn, "Securing Nuclear Warheads and Materials: Seven Steps for Immediate Action," *Austrian Military Periodical*, Special Edition, Proceedings of the EU-High Level Scientific International Conference on Strengthening global Practices for Protecting Nuclear Material (NUMAT), 2003, pp. 102-105.

Matthew Bunn and George Bunn, "Strengthening Nuclear Security Against Post-September 11 Threats of Theft and Sabotage," *Journal of Nuclear Materials Management*, Vol. 30, No. 3 (Spring 2002), pp. 48-60.

Matthew Bunn and John P. Holdren, "Managing Military Uranium and Plutonium in the United States and the Former Soviet Union," *Annual Review of Energy and the Environment*, Vol. 22, 1997, pp. 403-486.

Magazine Articles, Book Chapters, Reviews, and Short Reports

Matthew Bunn, “The Largest Danger at the Zaporizhzhia Nuclear Power Plant: Intentional Sabotage,” *Bulletin of the Atomic Scientists*, July 6, 2023.

Matthew Bunn, “JFK’s Lessons on Rolling Back Nuclear Dangers,” *The National Interest*, June 9, 2023.

“Things Get Ugly if Russia Pulls the Nuclear Trigger in Ukraine,” *The National Interest*, February 25, 2023.

Matthew Bunn, “Russia’s ‘Dirty Bomb’ Disinformation, Annotated,” *Bulletin of the Atomic Scientists*, December 1, 2022.

Mariana Budjeryn and Matthew Bunn, “Ukraine Building a Nuclear Bomb? Dangerous Nonsense,” *Bulletin of the Atomic Scientists*, March 9, 2022.

Matthew Bunn, “America Has No Good Options on Iran: But Reviving the Nuclear Deal is the Least Bad,” *Foreign Affairs*, January 17, 2022.

Matthew Bunn, “Enabling a Significant Nuclear Role in China’s Decarbonization,” in Henry Lee, Daniel P. Schrag, Matthew Bunn, Michael Davidson, Wei Peng, Wang Pu, and Mao Zhimin, *Foundations for a Low-Carbon Energy System in China* (Cambridge, U.K.: Cambridge University Press, 2021), pp. 65-100.

Matthew Bunn, “U.S.-Russian Cooperation to Improve Security for Nuclear Weapons and Materials,” in Sarah Bidgood and William C. Potter, eds., *End of an Era: The United States, Russia, and Nuclear Nonproliferation* (Monterey, Calif.: James Martin Center for Nonproliferation Studies, Middlebury Institute of International Studies at Monterey, 2021), pp. 1-35.

Matthew Bunn, “Twenty Years After 9/11, Terrorists Could Still Go Nuclear,” *Bulletin of the Atomic Scientists*, September 16, 2021.

Matthew Bunn, “Asking the Unasked Questions,” *Bulletin of the Atomic Scientists* (special section on the anniversaries of the Fukushima Daiichi and Chernobyl nuclear accidents), March 11, 2021.

Matthew Bunn, Laura S.H. Holgate, Dmitry Kovchegin, Nickolas Roth, and William H. Tobey, “IAEA Nuclear Security Recommendations (INFCIRC/225): The Next Generation,” in *Proceedings of the 61st Annual Meeting of the Institute for Nuclear Materials Management, July 16-20, 2020* (Mount Laurel, N.J.: INMM, 2020).

Mariana Budjeryn and Matthew Bunn, “Budapest Memorandum at 25: Between Past and Future” (Cambridge, Mass.: Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, March 2020). 20 pp.

Matthew Bunn and Nickolas Roth, “The Past and Potential Role of Civil Society in Nuclear Security,” CN-278-586, International Conference on Nuclear Security: Sustaining and Strengthening Efforts, International Atomic Energy Agency, Vienna, Austria, February 10-14, 2020.

Matthew Bunn, “The Need for Creative and Effective Vulnerability Assessment and Testing,” CN-278-587, International Conference on Nuclear Security: Sustaining and Strengthening Efforts, International Atomic Energy Agency, Vienna, Austria, February 10-14, 2020.

Nickolas Roth and Matthew Bunn, “Assessing Progress on Nuclear Security Action Plans,” CN-278-605, International Conference on Nuclear Security: Sustaining and Strengthening Efforts, International Atomic Energy Agency, Vienna, Austria, February 10-14, 2020.

Matthew Bunn, “In Memoriam: Roland Timerbaev (1927-2019): At the Vanguard of Nuclear Nonproliferation,” *Arms Control Today*, September 2019.

Aaron Arnold, Matthew Bunn, Caitlin Chase, Steven E. Miller, Rolf Mowatt-Larsen, and William H. Tobey, *The Iran Nuclear Archive: Impressions and Implications* (Cambridge, Mass: Belfer Center for Science and International Affairs, Harvard Kennedy School, April 2019). 26 pp.

Matthew Bunn, “Nuclear Disarmament, Nuclear Energy, and Climate Change: Exploring the Linkages,” in Bård Nikolas Vik Steen and Olav Njølstad, eds., *Nuclear Disarmament: A Critical Assessment* (Oxon, England: Routledge, March 2019), pp. 185-204.

Matthew Bunn, “Governance of Solar Geoengineering: Learning from Nuclear Regimes,” in Robert N. Stavins and Robert C. Stowe, eds., *Governance of the Deployment of Solar Geoengineering* (Cambridge, Mass.: Harvard Project on Climate Agreements, February 2019), pp. 51-54.

Matthew Bunn and William C. Potter, “Introduction: The Problem of Black-Market Nuclear Technology Networks,” in Matthew Bunn, Martin B. Malin, William C. Potter, and Leonard S. Spector, eds., *Preventing Black-Market Trade in Nuclear Technology* (Cambridge, U.K.: Cambridge University Press, 2018), pp. 1-22.

Matthew Bunn, “Countering Nuclear Black Markets by Strengthening Nonproliferation Culture,” in Matthew Bunn, Martin B. Malin, William C. Potter, and Leonard S. Spector, eds., *Preventing Black-Market Trade in Nuclear Technology* (Cambridge, U.K.: Cambridge University Press, 2018), pp. 249-270.

Martin B. Malin, Matthew Bunn, Leonard S. Spector, and William C. Potter, “Conclusion: Stopping Illicit Trade in Nuclear Technology: Progress, Gaps, and Next Steps,” in Matthew Bunn, Martin B. Malin, William C. Potter, and Leonard S. Spector, eds., *Preventing Black-Market Trade in Nuclear Technology* (Cambridge, U.K.: Cambridge University Press, 2018), pp. 323-364.

Matthew Bunn, Nickolas Roth, and William H. Tobey, “Protecting Nuclear Materials and Facilities Against the Full Spectrum of Plausible Threats,” IAEA-CN-254-262, International Atomic Energy Agency, “International Conference on Physical Protection of Nuclear Materials and Nuclear Facilities,” November 13-17, 2017.

Matthew Bunn, “Scenarios of Insider Threats to Japan’s Nuclear Facilities and Materials – and Steps to Strengthen Protection,” NAPSNET Special Report (San Francisco, Calif.: Nautilus Institute, November 2, 2017).

Matthew Bunn and Nickolas Roth, "The Effects of a Single Terrorist Nuclear Bomb," *Bulletin of the Atomic Scientists*, September 28, 2017.

Matthew Bunn and Nickolas Roth, "Preventing Nuclear Catastrophe: Strengthening DOE Nuclear Nonproliferation Programs," in *Proceedings of the 58th Annual Meeting of the Institute for Nuclear Materials Management, July 16-20, 2017* (Mount Laurel, N.J.: INMM, 2017).

Matthew Bunn, "Steps for Rebuilding U.S.-Russian Nuclear Security Cooperation," in *Proceedings of the 58th Annual Meeting of the Institute for Nuclear Materials Management, July 16-20, 2017* (Mount Laurel, N.J.: INMM, 2017).

Matthew Bunn, "Nuclear Terrorism: How Big is the Risk to Japan?" NAPSNET Special Report (San Francisco, Calif.: Nautilus Institute, June 8, 2017)

Matthew Bunn and Scott D. Sagan, "Introduction: Inside the Insider Threat," in Bunn and Sagan, eds., *Insider Threats* (Ithaca, N.Y.: Cornell University Press, 2017), pp. 1-9.

Matthew Bunn and Kathryn M. Glynn, "Preventing Insider Theft: Lessons from the Casino and Pharmaceutical Industries," in Bunn and Sagan, eds., *Insider Threats*, pp. 121-144.

Matthew Bunn and Scott D. Sagan, "A Worst Practices Guide to Insider Threats," in Bunn and Sagan, eds., *Insider Threats*, pp. 145-174.

Matthew Bunn, "Evolving State and Nonstate Proliferation Threats and Strengthening UNSCR 1540's Role in Overcoming Them," *1540 Compass*, Winter 2016, pp. 15-17.

Matthew Bunn, Martin B. Malin, Nickolas Roth, and William H. Tobey, "Key Steps for Continuing Nuclear Security Progress," CN-244-574, International Conference on Nuclear Security: Commitments and Actions, International Atomic Energy Agency, Vienna, Austria, December 5-9, 2016.

Matthew Bunn, review of *Doomed to Cooperate: How American and Russian Scientists Joined Forces to Avert Some of the Greatest Post-Cold-War Nuclear Dangers*, *Physics Today*, November 2016, p. 56.

Matthew Bunn and Nicholas Roth, "Reducing the Risks of Nuclear Theft and Terrorism," in Joseph F. Pilat and Nathan E. Busch, eds., *Routledge Handbook of Nuclear Proliferation and Policy* (London: Routledge, 2015), pp. 419-429.

Gary Samore, ed., *The Iran Nuclear Deal: A Definitive Guide* (Cambridge, Mass.: Belfer Center for Science and International Affairs, Harvard Kennedy School, August 2015). (Matthew Bunn, contributor.) 68 pp.

Matthew Bunn, "Unmaking the Bomb: A Fissile Material Approach to Nuclear Disarmament and Nonproliferation (Book Review)," *Physics Today*, Vol. 68, Issue 5 (May 2015), p. 50.

Gary Samore, ed., *Decoding the Iran Nuclear Deal: Key Questions, Points of Divergence, Pros and Cons, Pending Legislation, and Essential Facts* (Cambridge, Mass.: Belfer Center for Science and International Affairs, Harvard Kennedy School, April 2015). 60 pp. (Matthew Bunn, contributor.)

Secretary of Energy Advisory Board Task Force on Nuclear Nonproliferation, *Report of the Task Force on Nuclear Nonproliferation* (Washington, D.C.: U.S. Department of Energy, 31 March 2015). 53 pp. (Matthew Bunn, Task Force member.)

Matthew Bunn, Nickolas Roth and William H. Tobey, “Cutting Too Deep: The Obama Administration’s Proposals for Nuclear Security Spending Reductions” (Cambridge, Mass.: Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, July 2014). 32 pp.

Matthew Bunn and Scott Sagan. “A Worst Practices Guide to Insider Threats: Lessons from Past Mistakes” (Cambridge, Mass: Occasional Paper, American Academy of Arts and Sciences, April 2014). 21 pp.

Matthew Bunn, Martin B. Malin, Nickolas Roth, and William H. Tobey. *Advancing Nuclear Security: Evaluating Progress and Setting New Goals* (Cambridge, Mass.: Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, March 2014). 77 pp.

Matthew Bunn and Eben Harrell, *Threat Perceptions and Drivers of Change in Nuclear Security Around the World: Results of a Survey* (Cambridge, Mass.: Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, March 2014). 36 pp.

Matthew Bunn, Valentin Kuznetsov, Martin B. Malin, Yuri Morozov, Simon Saradzhyan, William H. Tobey, Viktor I. Yesin, and Pavel S. Zolotarev, “Steps to Prevent Nuclear Terrorism: Recommendations Based on the U.S.-Russia Joint Threat Assessment” (Cambridge, Mass.: Belfer Center for Science and International Affairs, Harvard Kennedy School, and Institute for U.S. and Canadian Studies, October 2013). 19 pp.

Matthew Bunn, Valentin Kuznetsov, Yuri Morozov, Gary Samore, Simon Saradzhyan, William H. Tobey, Viktor I. Yesin, and Pavel S. Zolotarev, “Transcending Mutual Deterrence in the U.S.-Russian Relationship” (Cambridge, Mass.: Belfer Center for Science and International Affairs, Harvard Kennedy School, and Institute for U.S. and Canadian Studies, September 2013). 25 pp.

Matthew Bunn, “Beyond Crises: The Unending Challenge of Controlling Nuclear Weapons and Materials,” in Henry Sokolski and Bruno Tetrakis, eds., *Nuclear Weapons Security Crises: What Does History Teach?* (Carlisle, Penn.: Strategic Studies Institute, U.S. Army War College, 2013), pp. 253-278.

Matthew Bunn and Eben Harrell, “Drivers of Change in Nuclear Security Policies: Results of a Survey,” in *Proceedings of the Institute for Nuclear Materials Management 54th Annual Meeting*, Palm Desert, Calif., 14-18 July 2013 (Deerfield, IL: INMM, 2013).

Matthew Bunn, “Strengthening Global Approaches to Nuclear Security,” in *Proceedings of the Institute for Nuclear Materials Management 54th Annual Meeting*, Palm Desert, Calif., 14-18 July 2013 (Deerfield, IL: INMM, 2013).

Matthew Bunn, “Strengthening Global Approaches to Nuclear Security,” IAEA-CN-203-298, in *Proceedings of International Nuclear Security: Enhancing Global Efforts*, Vienna, July 1-5, 2013 (Vienna: International Atomic Energy Agency, 2013).

Matthew Bunn, “The Threat of Nuclear Terrorism is Real,” in Stuart Gottlieb, ed., *Debating Terrorism and Counterterrorism*, 2nd ed. (Washington, D.C.: Congressional Quarterly Press, 2013), pp. 174-187.

Frank von Hippel (convening lead author), Matthew Bunn, Anatoli Diakov, Ming Ding, Robert Goldston, Tadahiro Katsuta, M.V. Ramana, Tatsujiro Suzuki, Suyuan Yu (lead authors), and Charles McCombie (contributing author) “Nuclear Energy,” in Thomas B. Johansson, Anand Patwardhan, Nebojsa Nakicenovic, and Luis Gomez-Echeverri, eds., *Global Energy Assessment: Toward a Sustainable Future* (Cambridge: Cambridge University Press for the International Institute for Applied Systems Analysis, 2012), pp. 1069-1129.

Matthew Bunn, Eben Harrell, and Martin B. Malin, “Progress on Securing Nuclear Weapons and Materials: The Four-Year Effort and Beyond” (Cambridge, Mass.: Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, March 2012). 31 pp.

Matthew Bunn and Eben Harrell, *Consolidation: Thwarting Nuclear Theft* (Cambridge, Mass.: Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, March 2012). 50 pp.

Matthew Bunn, “Reducing Nuclear Dangers” (review of Ron Rosenbaum, *How the End Begins: The Road to a Nuclear World War III*), *Issues in Science and Technology*, Winter 2012, pp. 93-95.

Matthew Bunn, Yuri Morozov, Rolf Mowatt-Larssen, Simon Saradzhyan, William Tobey, Viktor I. Yesin, and Pavel S. Zolotarev, *The U.S.-Russia Joint Threat Assessment of Nuclear Terrorism* (Cambridge, Mass.: Belfer Center for Science and International Affairs, Harvard Kennedy School, and Institute for U.S. and Canadian Studies, June 2011). 52 pp.

Laura Diaz Anadon, Valentina Bosetti, Matthew Bunn, Michela Catenacci, and Audrey Lee, *International Workshop on Research, Development, and Demonstration to Enhance the Role of Nuclear Energy in Meeting Climate and Energy Challenges* (Cambridge, Mass.: Belfer Center for Science and International Affairs, Harvard Kennedy School; ICARUS Project, Fondazione Eni Enrico Mattei; and International Center for Climate Governance, June 2011). 36 pp.

Fred McGoldrick, with Matthew Bunn, Martin Malin, and William H. Tobey. *Limiting Transfers of Enrichment and Reprocessing Technology: Issues, Constraints, and Options* (Cambridge, Mass.: Belfer Center for Science and International Affairs, Harvard Kennedy School, May 2011). 63 pp.

Matthew Bunn, Venkatesh Narayanamurti, Laura D. Anadon, Hanna Breetz, Henry Lee, and Erik Mielke, *Transforming the Energy Economy: Options for Accelerating the Commercialization of Advanced Energy Technologies* (Cambridge, Mass.: Energy

Technology Innovation Policy, Belfer Center for Science and International Affairs, Harvard Kennedy School, February 2011). 38 pp.

Matthew Bunn, “Nuclear Terrorism: A Strategy for Prevention,” in Michael E. Brown, Owen R. Coté, Sean M. Lynn-Jones, and Steven E. Miller, eds., *Going Nuclear: Nuclear Proliferation and International Security in the 21st Century* (Cambridge, Mass.: MIT Press, 2010), pp. 329-367.

Matthew Bunn, “The Real Risk of Nuclear Terrorism,” in Stuart Gottlieb, ed., *Debating Terrorism and Counterterrorism* (Washington, D.C.: Congressional Quarterly Press, 2010), pp. 168-200.

Anadon, Laura Diaz, Matthew Bunn, Gabriel Chan, Melissa Chan, Kelly Sims Gallagher, Charles Jones, Ruud Kempener, Audrey Lee, and Venkatesh Narayanamurti, “DOE FY 2011 Budget Request for Energy Research, Development, Demonstration, and Deployment: Analysis and Recommendations” (Cambridge, Mass.: Energy Technology Innovation Policy Research Group, Belfer Center for Science and International Affairs, Harvard Kennedy School, April 2010). 22 pp.

Matthew Bunn and Col.-Gen. Evgeniy P. Maslin (ret.), “All Stocks of Weapons-Usable Nuclear Materials Worldwide Must Be Protected Against Global Terrorist Threats,” paper prepared for “Protecting Nuclear Programmes From Terrorism,” World Institute for Nuclear Security Best Practices Workshop, 19-20 November 2009.

Andrew Newman and Matthew Bunn, “Securing Nuclear Stockpiles: The First Line of Defense in Preventing Nuclear Terrorism,” *Fletcher Forum of World Affairs*, Vol. 33, No. 2 (Fall 2009), pp. 109-128.

Matthew Bunn and Martin Malin, “Enabling a Nuclear Revival – And Managing Its Risks,” *Innovations: Technology, Governance, Globalization*, Vol. 4, Issue 4, (Fall 2009), pp. 173-191.

Matthew Bunn, “Reducing the Greatest Risks of Nuclear Theft and Terrorism,” *Daedalus*, Vol. 138, No. 4, Fall 2009, pp. 112-123.

Matthew Bunn, “Nuclear Bomb Squad: Looking for a Nuclear Needle in the Haystack,” (Review of Jeffrey Richelson, *Defusing Armageddon*), *Nonproliferation Review*, Vol. 16, No. 3, November 2009, pp. 533-538.

Matthew Bunn, “Corruption and Nuclear Proliferation,” in Robert I. Rotberg, ed., *Corruption, Global Security, and World Order* (Washington, D.C.: Brookings, 2009), pp. 124-126.

Laura Diaz Anadon, Kelly Sims Gallagher, and Matthew Bunn, “DOE FY 2010 Budget Request and Recovery Act Funding for Energy Research, Development, Demonstration, and Deployment: Analysis and Recommendations” (Cambridge, Mass.: Energy Technology Innovation Policy, Belfer Center for Science and International Affairs, Harvard Kennedy School, June 2009). 21 pp.

Andrew Newman and Matthew Bunn, “Funding for U.S. Efforts to Improve Controls for Nuclear Weapons, Materials, and Expertise Overseas: A 2009 Update” (Cambridge, Mass.:

Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, and Nuclear Threat Initiative, June 2009). 21 pp.

Matthew Bunn, “The Threat of Nuclear Terrorism is Real,” in Louise I. Gerdes, ed., *At Issue: Nuclear Weapons* (Farmington Hills, Mich.: Greenhaven Press, 2009), pp. 66-73.

Matthew Bunn, “Securing Nuclear Stockpiles Worldwide,” in George P. Shultz, Steven P. Andreasen, Sidney D. Drell, and James E. Goodby, eds., *Reykjavik Revisited: Steps Toward a World Free of Nuclear Weapons* (Stanford, Calif.: Hoover Institution Press, 2008), pp. 243-277.

Matthew Bunn, “Transparent and Irreversible Dismantlement of Nuclear Weapons,” George P. Shultz, Steven P. Andreasen, Sidney D. Drell, and James E. Goodby, eds., *Reykjavik Revisited: Steps Toward a World Free of Nuclear Weapons* (Stanford, Calif.: Hoover Institution Press, 2008), pp. 205-227.

Matthew Bunn and Andrew Newman, “Preventing Nuclear Terrorism: An Agenda for the Next President” (Cambridge, Mass.: Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, November 2008). 13 pp.

Matthew Bunn and Martin B. Malin, “A Nuclear Revival Needs New Cooperation,” *Bulletin of the Atomic Scientists*, September/October 2008, p. 60.

Matthew Bunn, “Expanded and Accelerated HEU Downblending: Designing Options to Serve the Interests of All Parties,” in *Proceedings of the Institute for Nuclear Materials Management 49th Annual Meeting*, Nashville, Tenn., 14-17 July 2008 (Deerfield, IL: INMM, 2008).

Laura Diaz Anadon, Kelly Sims Gallagher, and Matthew Bunn, “DOE FY09 Budget Request for Energy Research, Development & Demonstration – Commentary” (Cambridge, Mass.: Energy Technology Innovation Policy, Harvard University, 3 June 2008). 13 pp.

Commission of Eminent Persons, *Reinforcing the Global Nuclear Order for Peace and Prosperity: The Role of the IAEA to 2020 and Beyond* (Vienna: International Atomic Energy Agency, May 2008). 33 pp. (Matthew Bunn, principal drafter.)

Matthew Bunn and Anatoli Diakov, “Disposition of Excess Highly Enriched Uranium,” in *Global Fissile Materials Report 2007* (Princeton, NJ: International Panel on Fissile Materials, October 2007), pp. 24-32.

Matthew Bunn and Anatoli Diakov, “Disposition of Excess Plutonium,” in *Global Fissile Materials Report 2007* (Princeton, NJ: International Panel on Fissile Materials, October 2007), pp. 33-42.

Matthew Bunn, “Bombs We Can Stop” (review of William Langeweische, *The Atomic Bazaar*), *American Scientist*, Vol. 95, No. 5 (September/October 2007), pp. 452-454.

Matthew Bunn and Tom Bielefeld, “Reducing Nuclear and Radiological Terrorism Threats,” in *Proceedings of the Institute for Nuclear Materials Management 48th Annual Meeting*, Tucson, Arizona, 8-12 July 2007 (Northbrook, IL: INMM, 2007).

Matthew Bunn, "Troubled Disposition: Next Steps in Dealing With Excess Plutonium," *Arms Control Today*, Vol. 37 No. 3, April 2007, pp. 6-13.

Matthew Bunn and Anthony Wier, "Funding for U.S. Efforts to Improve Controls Over Nuclear Weapons, Materials, and Expertise Overseas: Recent Developments and Trends" (Cambridge, Mass.: Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, February 2007). 17 pp.

Matthew Bunn, "Preventing a Nuclear 9/11," in Stephen van Evera, ed., *How to Make America Safe* (Cambridge, Mass.: The Tobin Project, 2006), pp. 10-21.

Matthew Bunn, "Assessing the Benefits, Costs, and Risks of Near-Term Reprocessing and Alternatives," in *Proceedings of the Institute for Nuclear Materials Management 47th Annual Meeting*, Nashville, Tennessee, 16-20 July 2006 (Northbrook, IL: INMM, 2006).

Matthew Bunn, "Placing Iran's Enrichment Activities in Standby" (Cambridge, Mass.: Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, June 2006). 5 pp.

Matthew Bunn, "Cooperation to Secure Nuclear Stockpiles: A Case of Constrained Innovation," *Innovations: Technology|Governance|Globalization*, Vol. 1, No. 1 (2006), pp. 115-137.

Matthew Bunn, "Incentives for Nuclear Security," in *Proceedings of the Institute for Nuclear Materials Management 46th Annual Meeting*, Phoenix, Arizona, 10-14 July 2005 (Northbrook, IL: INMM, 2005).

Matthew Bunn, "Building a Genuine U.S.-Russian Partnership for Nuclear Security," in *Proceedings of the Institute for Nuclear Materials Management 46th Annual Meeting*, Phoenix, Arizona, 10-14 July 2005 (Northbrook, IL: INMM, 2005).

Matthew Bunn and Anthony Wier, "The Seven Myths of Nuclear Terrorism," *Current History*, April 2005.

Matthew Bunn, "Preventing a Nuclear 9/11," *Issues in Science and Technology*, Vol. 21, No. 2 (Winter 2005).

Matthew Bunn, "Thinking About How Many Guards Will Do the Job" (commentary on Scott D. Sagan, "The Problem of Redundancy Problem: Why More Nuclear Security Forces May Produce Less Nuclear Security"), *Risk Analysis*, Vol. 24, No. 4 (August 2004), pp. 949-953.

Matthew Bunn, *Preventing Nuclear Terrorism: A Progress Update* (Washington, DC: Nuclear Threat Initiative and the Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, 22 October 2003). 17 pp.

Anthony Wier and Matthew Bunn, "Controlling Nuclear Warheads and Materials: Priority Actions to Prevent Nuclear Terrorism," *LBJ Journal of Public Affairs*, Vol. 16, No. 1, Fall 2003.

Matthew Bunn and Anthony Wier, "Controlling Nuclear Warheads and Materials: An Update," in *Proceedings of the 44th Annual Meeting of the Institute of Nuclear Materials Management*, Phoenix, Arizona, July 2003 (Northbrook, IL: INMM, 2003).

Matthew Bunn, "The Bush Administration and Nonproliferation: Skeptics at the Helm," *Yaderny Kontrol Digest* (Moscow), Vol 7, No. 1 (Winter 2002), pp. 18-35.

Matthew Bunn and George Bunn, "Nuclear Theft and Sabotage: Priorities for Reducing New Threats," *IAEA Bulletin*, Vol. 43, No. 4, 2001.

Matthew Bunn and George Bunn, "Reducing the Threat of Nuclear Theft and Sabotage," in *Proceedings of the Symposium on International Safeguards: Verification and Nuclear Material Security*, Vienna, Austria, 29 October-2 November 2001. (Vienna, Austria: International Atomic Energy Agency, 2001.)

Matthew Bunn, Oleg Bukharin, and Kenneth N. Luongo, "Renewing the Partnership: One Year Later," in *Proceedings of the 42nd Annual Meeting of the Institute of Nuclear Materials Management*, Indian Wells, California, 15-19 July 2001 (Northbrook, IL: Institute for Nuclear Materials Management, 2001.)

Matthew Bunn, "Russian Import of Foreign Spent Fuel: Status and Policy Implications," in *Proceedings of the 42nd Annual Meeting of the Institute of Nuclear Materials Management*, Indian Wells, California, 15-19 July 2001 (Northbrook, IL: Institute for Nuclear Materials Management, 2001.)

Frank von Hippel and Matthew Bunn, "Saga of the Siberian Plutonium-Production Reactors," *F.A.S. Public Interest Report*, November/December, 2000.

Robert H. Williams, convening lead author, "Advanced Energy Supply Technologies," in José Goldemberg, ed., *World Energy Assessment: Energy and the Challenge of Sustainability* (New York: United Nations, 2000), nuclear section pp. 306-318. (Matthew Bunn, contributing author.)

Matthew Bunn, "A Detailed Analysis of the Urgently Needed New Steps to Control Warheads and Fissile Material," in Joseph Cirincione, ed., *Repairing the Regime* (New York, NY: Routledge, 2000), pp. 71-125.

Oleg Bukharin, Harold Feiveson, Frank von Hippel, Sharon K. Weiner, Matthew Bunn, William Hoehn, and Kenneth Luongo, *Helping Russia Downsize its Nuclear Complex: A Focus on the Closed Nuclear Cities*, Report of an International Conference held at Princeton University, March 14-15, 2000 (Princeton, NJ: Program on Nuclear Policy Alternatives, Center of International Studies, and Center for Energy and Environmental Studies, Princeton University, June 2000). 53 pp.

Matthew Bunn, "Executive Summary," and "Funding Nuclear Security" (principal author) in Sam Nunn (chair), *Managing the Global Nuclear Materials Threat: Policy Recommendations* (Washington DC: Center for Strategic and International Studies, January 2000.)

Matthew Bunn, "Safeguards, Security, and Transparency of Nuclear Materials in Repository Systems: The Role of International Collaboration," in *Proceedings of the Conference on Geologic Repositories: Facing Common Challenges*, Denver, Colo., 31 October-November 3, 1999 (Washington, D.C.: U.S. Department of Energy, 2000), pp. 189-191.

Matthew Bunn, "The Economics of Reprocessing Compared to Direct Disposal of Spent Nuclear Fuel," in Peter Ellis, ed., *Nuclear Reprocessing: Has it a Future? Views from Inside and Outside the Industry*, Current Decisions Report Number 22. Oxford, UK: Oxford Research Group, October 1999.

Matthew Bunn, "The Economics of MOX Fabrication," in Peter Ellis, ed., *Nuclear Reprocessing: Has it a Future? Views from Inside and Outside the Industry*, Current Decisions Report Number 22. Oxford, UK: Oxford Research Group, October 1999.

Matthew Bunn, "Enabling A Significant Future for Nuclear Power: Avoiding Catastrophes, Developing New Technologies, Democratizing Decisions -- And Staying Away From Separated Plutonium," (plenary address) in *Proceedings of Global '99: Nuclear Technology- Bridging the Millennia*, Jackson Hole, Wyoming, 30 August - 2 September 1999. La Grange Park, IL: American Nuclear Society, 1999.

Matthew Bunn, "Ensuring Security for Weapons-Usable Nuclear Material Worldwide: Expanding International Cooperation, Strengthening Global Standards," in *Proceedings of Global '99: Nuclear Technology- Bridging the Millennia*, Jackson Hole, Wyoming, 30 August - 2 September 1999. La Grange Park, IL: American Nuclear Society, 1999.

Matthew Bunn, Steve Fetter, and John P. Holdren, "The Economics of Reprocessing vs. Direct Disposal of Spent Nuclear Fuel: Short-Term and Long-Term Prospects," in *Proceedings of Global '99: Nuclear Technology- Bridging the Millennia*, Jackson Hole, Wyoming, 30 August - 2 September 1999. La Grange Park, IL: American Nuclear Society, 1999.

Matthew Bunn, Neil J. Numark, and Tatsujiro Suzuki, "A Japanese-Russian Agreement to Establish a Nuclear Facility for MOX Fabrication and Spent Fuel Storage in the Russian Far East" (Cambridge, MA: BCSIA Discussion Paper 98-25, John F. Kennedy School of Government, Harvard University, November 1998.) 10 pp.

Matthew Bunn, Oleg Bukharin, Jill Cetina, Kenneth N. Luongo, and Frank von Hippel, "Retooling Russia's Nuclear Cities," *Bulletin of the Atomic Scientists*, September/October 1998.

Matthew Bunn and John P. Holdren, "Reducing the Threat of Nuclear Theft," in Joseph Rotblat, ed., *Nuclear Weapons: The Road to Zero* (Boulder, CO: Westview Press, 1998), pp. 117-144.

Matthew Bunn, "Security for Weapons-Usable Nuclear Materials: Expanding International Cooperation, Strengthening International Standards," in *Comparative Analysis of Approaches to Protection of Fissile Materials: Proceedings of a Workshop at Stanford California, July 28-30, 1997*. Livermore, CA: Lawrence Livermore National Laboratory, Document Conf.-9707121, May 1998.

Matthew Bunn, "'Pit-Stuffing': How to Rapidly Disable Thousands of Warheads and Easily Verify Their Dismantlement," *F.A.S. Public Interest Report*, March/April 1998.

Matthew Bunn, “Act Now, Mr. President,” (proposal for unilateral initiatives to control warheads not covered by the START treaties), *Bulletin of the Atomic Scientists*, March/April 1998.

Matthew Bunn, “The Case for a Dual-Track Approach—And How To Move Forward From Here,” *Nuclear Materials Monitor*, Exchange Monitor Publications, Landsdowne, VA, Vol. 1, No. 5, July 14, 1997; originally presented to the conference on “Comprehensive Controls on Plutonium and Highly Enriched Uranium: Long-Term Problems and Prospects for Solutions,” Institute for Science and International Security, Washington DC, 11 June 1997.

Matthew Bunn, “The U.S. Program for Disposition of Excess Weapons Plutonium,” IAEA-SM-346/102, in *Nuclear Fuel Cycle and Reactor Strategies: Adjusting to New Realities: Contributed Papers*, pp. 79-91. Vienna, Austria: International Atomic Energy Agency, IAEA-TECDOC-990, December 1997. (Invited paper to the international symposium with the same title, 3-6 June 1997.)

U.S.-Russian Independent Scientific Commission on Disposition of Excess Weapons Plutonium: Final Report (Washington DC: Office of Science and Technology Policy, June 1, 1997). (Matthew Bunn, Executive Secretary.) 19 pp.

Matthew Bunn, “Eliminating Excess Plutonium Stockpiles: A Dual-Track Disposition Strategy,” *Strategic Comments*, International Institute for Strategic Studies, Vol. 3, No. 2, March 1997. (No byline.)

John P. Holdren, John F. Ahearne, Richard L. Garwin, Wolfgang K. H. Panofsky, John J. Taylor, and Matthew Bunn, “Excess Weapons Plutonium: How to Reduce a Clear and Present Danger,” *Arms Control Today*, Nov/Dec. 1996, Vol. 26, Number 9, pp. 3-9.

U.S.-Russian Independent Scientific Commission on Disposition of Excess Weapons Plutonium: Interim Report. (Washington DC: Office of Science and Technology Policy, September 1996). (Matthew Bunn, Executive Secretary.) 19 pp.

Matthew Bunn, “Getting the Plutonium Disposition Job Done: The Concept of a Joint-Venture Disposition Enterprise Financed by Additional Sales of Highly Enriched Uranium,” presented to the “International Conference on Military Conversion and Science: Utilization/Disposal of the Excess Fissile Weapons Materials: Scientific, Technological, and Socio-Economic Aspects,” Como, Italy, 18-20 March 1996, published in V. Kouzminov and M. Martellini, eds., *Science for Peace Series: Volume 1*, Venice: UNESCO, 1996.

Matthew Bunn, “The Antiballistic Missile Treaty,” in Richard Dean Burns, ed., *The Encyclopedia of Arms Control and Disarmament*. New York, NY: Charles Scribner’s Sons, 1993.

Matthew Bunn, “The ABM Talks: The More Things Change...” *Arms Control Today*, September 1992, pp. 15-23.

Matthew Bunn, “Birth of the Beryllium Baby,” (Review of Donald MacKenzie, *Inventing Accuracy: A Historical Sociology of Nuclear Missile Guidance*) *Technology Review*, August-September 1991, pp. 75-76.

Matthew Bunn, *Space Arms Control: An Overview* (Los Alamos, NM: Center for National Security Studies (CNSS), Los Alamos National Laboratory, 1991). 59 pp.

Matthew Bunn, "SS-18 Modernization: The Satan and START," *Arms Control Today*, July-August 1990, pp. 13-17.

Matthew Bunn, "Arms Control's Enduring Worth," *Foreign Policy*, Summer 1990, pp. 151-168.

Matthew Bunn, "The Star Wars Story," (Review of Sanford Lakoff and Herbert York, *A Shield in Space? Technology, Politics, and the Strategic Defense Initiative*) *Science*, 4 May 1990, p. 614.

Matthew Bunn, "The ABM Treaty: Toward the 21st Century," *Arms Control Today*, April 1990, pp. 13-20.

Matthew Bunn, "The Bomb's Brilliant History," (Review of Richard Rhodes, *The Making of the Atomic Bomb*) *Arms Control Today*, May 1988, pp. 29-30.

Matthew Bunn, "Star Wars Testing and the ABM Treaty," *Arms Control Today*, April 1988, pp. 11-18.

Matthew Bunn, "Maneuvering Reentry Vehicles: Missions, Implications, and Prospects for Control," paper presented at the American Association for the Advancement of Science Annual Meeting, 15 February 1988.

Matthew Bunn, "Smart Warheads: The Next Nuclear Offensive," *Technology Review*, January 1988, pp. 28-36.

Matthew Bunn, "Soviet Missile Tests Near Hawaii Arouse Controversy," *Arms Control Today*, November 1987.

Matthew Bunn, "Threat Inflation Annual," (Review of Soviet Military Power, 1987) *Arms Control Today*, May 1987.

James P. Rubin and Matthew Bunn, "Analysis of the Administration's Report on Soviet Noncompliance with Arms Control Agreements," *Arms Control Today*, April 1987.

Matthew Bunn, "Early SDI: Deploying a Disaster," *Arms Control Today*, March 1987.

Matthew Bunn, "Does Throwweight Really Matter?" *Arms Control Today*, November 1986.

Matthew Bunn, "Les Missiles Nucléaires Ultraprécis," *Le Temps Stratégique* (Geneva), Spring 1985.

Matthew Bunn and Kosta Tsipis, "The Uncertainties of a Preemptive Nuclear Attack," *Scientific American*, November 1983.

Testimony

Nickolas Roth, Matthew Bunn, and William H. Tobey, "Public Testimony on Trump Administration FY 2021 Request for Nuclear Theft Prevention Programs," submitted to the Subcommittee on Energy and Water Appropriations, Committee on Appropriations, U.S. House of Representatives, March 31, 2020.

Matthew Bunn, “Managing Spent Fuel and Nuclear Waste Successfully – What Needs to be Done?” testimony before the Blue-Ribbon Commission on the Nuclear Future, 25 May 2010.

Matthew Bunn, “Next Steps to Strengthen the National Nuclear Security Administration’s Efforts to Prevent Nuclear Proliferation,” testimony before the Subcommittee on Energy and Water, Committee on Appropriations, U.S. Senate, 30 April 2008.

Matthew Bunn, “The Risk of Nuclear Terrorism – And Next Steps to Reduce the Danger,” Committee on Homeland Security and Governmental Affairs, U.S. Senate, 2 April 2008.

Matthew Bunn, “Risks of GNEP’s Focus on Near-Term Reprocessing,” testimony before the Committee on Energy and National Resources, U.S. Senate, 14 November 2007.

Matthew Bunn, “Assessing the Benefits, Costs, and Risks of Near-Term Reprocessing and Alternatives,” testimony before the Subcommittee on Energy and Water, Committee on Appropriations, U.S. Senate, 14 September 2006.

Matthew Bunn, “Disposition of Excess Plutonium: Rethinking Security Objectives and Technological Approaches,” testimony before the Subcommittee on Strategic Forces, Committee on Armed Services, U.S. House of Representatives, 26 July 2006.

Matthew Bunn, “The Case Against a Near-Term Decision to Reprocess Spent Nuclear Fuel in the United States,” testimony to the Subcommittee on Energy, Committee on Science, U.S. House of Representatives, 16 June 2005.

Matthew Bunn, “Preventing Nuclear Terrorism,” testimony to the Subcommittee on National Security, Committee on Government Reform, U.S. House of Representatives, 24 September 2002.

Newspaper and Internet Articles

Matthew Bunn, “Let’s Make Voting a Party,” *The Hill*, October 9, 2020.

Matthew Bunn, “Stepping Back from the Brink on Iran,” *Boston Globe*, January 8, 2020.

Matthew Bunn, “We’re in for a Rough Ride on Iran,” *Boston Globe*, January 3, 2020.

Matthew Bunn, “President Trump’s Missed Opportunity with Ukraine,” *Los Angeles Times*, October 29, 2019.

Matthew Bunn, “How to Step Back from the Brink with Iran,” *Defense One*, June 18, 2019.

Matthew Bunn, Nicolas Roth, and William H. Tobey, “Securing Nuclear Weapons and Materials Worldwide: Expanded Funding Needed for a More Ambitious Approach,” Policy Brief (Cambridge, Mass.: Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, April 2019).

Matthew Bunn, Nicolas Roth, and William H. Tobey, “Combating Complacency about Nuclear Terrorism,” Policy Brief (Cambridge, Mass.: Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, March 2019).

Matthew Bunn, Nickolas Roth, and William H. Tobey, “Presidential Candidates Need a Plan for Reducing Nuclear Terrorism Risks,” *The Hill*, January 29, 2019.

Matthew Bunn, Nickolas Roth, and William H. Tobey, “A Vision for Nuclear Security,” Policy Brief (Cambridge, Mass.: Project on Managing the Atom, Belfer Center for Science and International Affairs, Harvard Kennedy School, January 2019).

Matthew Bunn, “In Gorky Park, With Nuclear Worries,” *The Hill*, August 13, 2018.

Matthew Bunn, “How Trump Can Fix the Iran Nuclear Deal,” *Boston Globe*, May 7, 2018.

Nickolas Roth, Matthew Bunn, and William H. Tobey, “Rhetoric Aside, the U.S. Commitment to Preventing Nuclear Terrorism is Waning,” *The Hill*, April 19, 2018.

Matthew Bunn, “North Korea and America Could Stumble into a Nuclear War,” *The National Interest*, August 17, 2017.

Matthew Bunn and Scott D. Sagan, “How Governments and Companies Can Prevent the Next Insider Attack,” *The Conversation*, 20 February 2017.

Matthew Bunn, “Essay by Matthew Bunn,” in “Policy Roundtable 1-3 on the International Atomic Energy Agency Statute at Sixty,” *H-Diplo/International Security Studies Forum*, 19 November 2016.

Matthew Bunn and Gary Samore, “Cancel the Plutonium Fuel Factory,” *The Hill*, 18 July 2016.

Matthew Bunn, “The Nuclear Security Summit: Wins, Losses, and Draws,” *Bulletin of the Atomic Scientists*, 8 April 2016

Matthew Bunn, William Tobey, Martin Malin, and Nickolas Roth, “Will the Nuclear Security Summit Help Stop Terrorists from Getting the Bomb?” *The National Interest*, 31 March 2016.

Matthew Bunn, “Belgium Highlights the Nuclear Terrorism Threat and Security Measures to Stop It,” *The World Post*, 29 March 2016.

Matthew Bunn, Martin B. Malin, Nickolas Roth, and William Tobey, “Nuclear Security: Continuous Improvement or Dangerous Decline?” *Bulletin of the Atomic Scientists*, 27 March 2016.

Matthew Bunn, “Looking Back and Looking Forward on the Iran Deal,” *The Hill*, 2 September 2015.

Matthew Bunn, “Making Life Harder for Iran’s Bomb Advocates,” *The National Interest*, 7 August 2015.

Matthew Bunn, William H. Tobey, and Nickolas Roth, “Don’t Weaken Our Defenses Against Nuclear Smuggling,” *The Hill*, 20 May 2015.

Matthew Bunn, “Blocking an Iranian Bomb,” *The National Interest*, 5 April 2015.

Matthew Bunn, “The Real Nuclear Nightmare When it Comes to U.S.-Russian Ties,” *The National Interest*, 24 January 2015.

William H. Tobey, Matthew Bunn and Nickolas Roth, “The Russian Tie We Can't Cut,” *International New York Times*, 12 August 2014.

Matthew Bunn, “Arms Control: Don't Throw the Baby Out with the Bathwater,” *The Hill*, 7 August 2014.

Matthew Bunn, “ISIS Seizes Nuclear Material—but That's Not the Reason to Worry,” *National Interest*, 11 July 2014.

Matthew Bunn, “Ensuring a Nuclear Nightmare Never Happens,” *National Interest*, 11 June 2014.

Matthew Bunn and Fred McGoldrick, “A Nuclear Blind Alley for the U.S.,” *Los Angeles Times*, 31 December 2013.

Matthew Bunn, “The Iran Deal – A Summary and Interpretation,” *Iran Matters* blog, Belfer Center for Science and International Affairs, Harvard Kennedy School, 27 November 2013.

Matthew Bunn, “Why Netanyahu is Wrong About Iran Nuclear Deal,” *Christian Science Monitor*, 25 November 2013.

Matthew Bunn, “On Iran's Nuclear Program, Obama Should Take a Cue From JFK and ‘Go First’,” *Christian Science Monitor*, 10 June 2013.

Matthew Bunn and Abbas Maleki, “How to Avoid a War With Iran,” *Foreign Policy*, 21 May 2012.

Laura Diaz Anadon, Matthew Bunn, Gabriel Chan, Melissa Chan, Charles Jones, Ruud Kempener, Audrey Lee, Nathaniel Logar, and Venkatesh Narayanamurti, “Transforming U.S. Energy Innovation,” Policy Brief (Cambridge, Mass.: Belfer Center for Science and International Affairs, Harvard Kennedy School, November 2011).

Laura D. Anadon, Valentina Bosetti, Matthew Bunn, Michela Catenacci, and Audrey Lee, “Research, Development, and Demonstration for the Future of Nuclear Energy,” Policy Brief (Cambridge, Mass.: Belfer Center for Science and International Affairs, Harvard Kennedy School; the ICARUS Project of the Fondazione Eni Enrico Mattei; and the International Center for Climate Governance, June 2011).

Matthew Bunn and Olli Heinonen, “Preventing the Next Fukushima,” Belfer Center for Science and International Affairs, Harvard Kennedy School (online), 26 May 2011.

Matthew Bunn, “How We Can Reduce the Risks of Another Fukushima,” *Washington Post*, 24 March 2011.

Matthew Bunn, “Japan's Nuclear Crisis: Six Reasons Why We Should – And Shouldn't – Worry,” *Christian Science Monitor* (online), 15 March 2011.

Matthew Bunn and William Tobey, “Keep Up the Pace of Locking Down the Bomb,” *Huffington Post* (online), 3 March 2011.

Matthew Bunn, “Nuclear Smuggling: The Expert View,” *Guardian* (online), 7 November 2010.

Matthew Bunn and Evgeny Velikhov, "Nuclear Energy and the Global Energy Crisis — U.S.-Russian Cooperation Can Help," *The Hill* (online), 22 July 2010.

Matthew Bunn and Andrew Newman, "A Working Relationship," *Baltimore Sun*, 7 October 2008.

Matthew Bunn, "Thwarting Terrorists: More to Be Done," *Washington Post*, 26 September 2007.

Abbas Maleki and Matthew Bunn, "Finding Compromise in Iran," *Boston Globe*, 15 June 2006.

Abbas Maleki and Matthew Bunn, "Finding a Way Out of the Iranian Nuclear Crisis," Belfer Center for Science and International Affairs, Harvard Kennedy School (online), 23 March 2006.

Matthew Bunn, "The Nuclear Campus," *Boston Globe*, 20 October 2005.

Matthew Bunn and Anthony Wier, "Preventing a Nuclear 9/11," *Washington Post*, 13 September 2004.

Matthew Bunn and Anthony Wier, "Faster Pace Needed on Uranium Removal," *Boston Globe*, 23 September 2003.

Matthew Bunn and Anthony Wier, "Keeping Nukes Out of Terrorist Hands," *Boston Globe*, 3 September 2002.

Matthew Bunn, "A Nuclear Weapon Just Waiting to Happen: Perilous Materials at Sites Around the World Must Be Removed," *Los Angeles Times*, 29 August 2002.

Matthew Bunn, "Plutonium at the Summit," *Christian Science Monitor*, 26 April 2000.

Kenneth N. Luongo and Matthew Bunn, "A Nuclear Crisis in Russia," *Boston Globe*, 29 December 1998.

Matthew Bunn, "Keeping Plutonium Locked Up," *Journal of Commerce*, March 14, 1994.

Matthew Bunn, "Star Wars Spending Remains Sky-High," *St. Louis Post-Dispatch*, 3 June 1992.

Matthew Bunn, "Across the ABM Boundaries: Brilliant Pebbles Tests Could Violate 1972 Treaty," *Space News*, 10-16 September 1990.

Spurgeon M. Keeny, Jr. and Matthew Bunn, "Taking Exception: Gen. Graham's Pie in the Sky," *Washington Post*, 18 August 1989.

Matthew Bunn, "Incendiaries in Space," *Baltimore Sun*, 27 July 1989.

Spurgeon M. Keeny, Jr. and Matthew Bunn, "'Brilliant Pebbles' Concept is Merely 'Star Wars' Snake Oil," *Atlanta Constitution*, 25 July 1989.

Admiral Noel Gayler and Matthew Bunn, "Building New Anti-Satellite Weapons Could Shoot Down National Security," *Los Angeles Times*, 16 July 1989.

Matthew Bunn and Jonathan Welner, “Clarifying Ambiguities in ABM Treaty,” *Defense News*, 30 January 1989.

Matthew Bunn, “SDI: Wrong Path for United States,” *Defense News*, 21 November 1988.

Matthew Bunn, “Cut Penetration Aids? Get Serious, Mr. Bush,” *Defense News*, 10 October 1988.

Matthew Bunn, “Red Shield,” *Baltimore Sun*, 9 June 1988.

Jack Ruina and Matthew Bunn, “Why Not Have Deep Reductions and SDI Too?” *Christian Science Monitor*, 11 January 1988.

James P. Rubin and Matthew Bunn, “Administration Folly Over the ABM Treaty,” *Christian Science Monitor*, 9 April 1987.

Matthew Bunn, “An Off-Target Missile Warning,” *Boston Globe*, 10 May 1985.

Theses

Matthew Bunn, *Guardians at the Gates of Hell: Estimating the Risks of Nuclear Terrorism – And Identifying the Highest-Priority Risks of Nuclear Theft*. Ph.D. dissertation in Technology, Management, and Policy. (Cambridge, MA: Massachusetts Institute of Technology, January 2007). 466 pp.

Matthew Bunn, *Strategic Stability: Theory and Measurement for Arms Control*. Joint S.B. and S.M. thesis in Political Science. (Cambridge, MA: Massachusetts Institute of Technology, May 1985). 160 pp.