

# Pavel Podvig

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Russian Nuclear Forces Project

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## Professional experience

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### **Russian Nuclear Forces Project**

Director and Principal Investigator

Since 1995

The project maintains a web site, [RussianForces.org](http://RussianForces.org), devoted to analysis of technical and political aspects of Russian nuclear policy and composition of Russia's nuclear forces.

### **United Nations Institute for Disarmament Research**

Senior Researcher, WMD Programme

Since January 2012

Development and coordination of projects on nonproliferation of weapons of mass destruction.

Consultant

January-December 2011

Nuclear Security project to evaluate the current status of international nuclear security programs.

### **Program on Science and Global Security, Princeton University**

Editor, *Science and Global Security* journal

Since February 2011

With Zia Mian and Alexander Glaser

Associate Professional Specialist

Since September 2010

Research projects "International Panel on Fissile Materials"

Research Fellow

January 2002–September 2003

Research project "Missile Defense in Soviet and Russian Policymaking"

Visiting Researcher

September 2000–January 2002, January 2004–July 2004

Research projects: Russian early-warning system, U.S.-Russian arms control dialog, missile defense and the ABM Treaty

### **Center for International Security and Cooperation, Stanford University**

Affiliate

since July 2010

Research Associate

2004-2010

Research projects: Russian nuclear complex, Russian strategic forces, danger of accidental missile launch, military uses of space, nuclear non-proliferation

Acting Associate Director for Research

2008-2009

### **Security Studies Program, Massachusetts Institute of Technology**

Research Fellow

1992, 1994, 1997

Research projects: Russian space-based early-warning system, missile defense and the ABM Treaty, status of the Russian strategic forces

**Center for Arms Control Studies, Moscow Institute of Physics and Technology**

Researcher

August 1991–August 2004

Main research projects: political and technical aspects of missile defenses, history and status of the Russian strategic forces, capabilities of the Russian early-warning system, U.S.-Russian relations

**Teaching**

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**Stanford University**

Lecturer, Seminar “Nuclear Weapons and Nuclear Proliferation”

Spring 2007

**Princeton University**

Preceptor, “Science, Technology, and Public Policy” (Professor Frank von Hippel)

2003, 2004

**Center for Arms Control Studies, Moscow Institute of Physics and Technology**

Lecturer, “Technical Aspects of Disarmament and Nonproliferation”

2002, 2003

**General Physics Department, Moscow Institute of Physics and Technology**

Lecturer, general physics

1990–2001

**Education**

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**Institute of World Economics and International Relations (IMEMO), Moscow**

PhD, Political Science

2004

**Moscow Institute of Physics and Technology**

Post-graduate program, Physics

1992

**Moscow Institute of Physics and Technology**

Department of General and Applied Physics (with honors)

1988

**Membership**

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International Panel on Fissile Materials

since 2009

Program on New Approaches to Russian Security (PONARS)

since 1999

**Boards and Committees**

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**Missile Dialogue Initiative**

Member, Advisory Board

since 2019

**Bulletin of the Atomic Scientists**

Member, Science and Security Board

2008-2010

Vice Chair, Board of Directors

November 2005-March 2008

Member, Board of Directors

June 2001-March 2008

**Committee on International Freedom of Scientists, American Physical Society**

Chair

2008

Member

2006-2009

**Burton/Szilard Awards Committee, Forum on Physics & Society, American Physical Society**

Chair

2009

Member

2008-2009

**Program on New Approaches to Russian Security**

Member, Executive Committee

October 2002–January 2006

**Awards**

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2008 Leo Szilard Lectureship Award, American Physical Society  
(with Anatoli Diakov)

2008

*"For establishing a center for scientific study of arms control, for landmark analyses, and for courage in supporting open discussion of international security in Russia."*

**Personal Information**

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**Languages:** Russian: native, English: fluent, French: basic

## Publications and presentations

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| Publications and presentations         | 4  |
| Books                                  | 4  |
| Research papers and articles           | 4  |
| Op-eds and columns                     | 9  |
| Presentations, panels, and testimonies | 13 |

### Books

1. *Russian Strategic Nuclear Forces* / edited by Pavel Podvig. Cambridge, Mass.: MIT Press, 2001 (paperback edition, 2004)
2. *Стратегическое ядерное вооружение России* / под редакцией П. Л. Подвига. М: ИздАТ, 1998. 478 p.: ill.; 25 cm (in Russian)

### Research papers and articles

1. James Reville, John Borrie, Pavel Podvig and Jennifer Hart, "Compliance and Enforcement: Lessons from across WMD-Related Regimes," UNIDIR, December 2019
2. Pavel Podvig and Amy Woolf. "Monitoring, Verification, and Compliance Resolution in US-Russian Arms Control." UNIDIR, 2019
3. Pavel Podvig and Ryan Snyder, "Watch them go: Simplifying the elimination of fissile materials and nuclear weapons." UNIDIR, 2019
4. Pavel Podvig and Ryan Snyder. "Verifying the non-nuclear nature of objects without revealing sensitive information." 60th INMM Annual Meeting, July 2019
5. Moritz Kütt, Zia Mian and Pavel Podvig, "Global Stocks and Production of Fissile Materials, 2018." SIPRI Yearbook 2019: Armaments, Disarmament and International Security, pp. 349-56. Stockholm: SIPRI, 2019.
6. Pavel Podvig and Joseph Rodgers, "Deferred verification: verifiable declarations of fissile-material stocks for disarmament purposes." *The Nonproliferation Review* 26, issue 3-4 (2019): 209-17.
7. Amy Dowler, John Borrie and Pavel Podvig, "Hypersonic Weapons: A Challenge and Opportunity for Strategic Arms Control." UNODA-UNIDIR, 2019
8. Pavel Podvig, "Managing Risks of Fissile Materials," Discussion paper for the Global Enterprise to Strengthen Nonproliferation and Disarmament, NTI, January 2019
9. Pavel Podvig, Ryan Snyder, and Wilfred Wan. "Evidence of Absence: Verifying the Removal of Nuclear Weapons." UNIDIR, 2018
10. Pavel Podvig "Russia's Current Nuclear Modernization and Arms Control." *Journal for Peace and Nuclear Disarmament*, <https://doi.org/10.1080/25751654.2018.1526629>.
11. Moritz Kütt, Zia Mian, and Pavel Podvig. "Global Stocks and Production of Fissile Materials, 2017." In *SIPRI Yearbook 2018: Armaments, Disarmament and International Security*, 288-94. Stockholm: SIPRI, 2018.

12. Pavel Podvig, "Stability and nuclear risks in U.S.-Russian relations." Discussion Paper for a Track II Dialogue on U.S.-Russian Crisis Stability, 19-20 March 2018, CSIS, Washington, DC.
13. Pavel Podvig. "Russia: Strategic Force Modernization." In *The Military Balance 2018*. IISS, 2018.
14. Pavel Podvig and Joseph Rodgers, "Deferred verification: Verifiable Declarations of Fissile Material Stocks," UNIDIR, 2017
15. "The Use of Highly-Enriched Uranium as Fuel in Russia," Pavel Podvig, editor, with contributions by Nikolay Arkhangelskiy, Anatoli Diakov, Anton Khlopkov, Dmitry Konukhov, Dmitry Kovchegin, Eugene Miasnikov, Report of the International Panel on Fissile Materials, September 2017
16. Pavel Podvig, "Russia: strategic force modernisation," Working paper for IISS Military Balance 2018, September 2017
17. Pavel Podvig, "Addressing Disparities in a Non-Discriminatory Fissile Material Treaty," in Vitaly Fedchenko, Pavel Podvig, Thomas E. Shea, "FM(C)T Meeting Series--Addressing Disparities in a Non-Discriminatory Fissile Material Treaty," UNIDIR, 2017
18. Pavel Podvig, "Missile Defense in Russia," Working Paper for FAS Multipolar BMD Project, April 2017
19. Pavel Podvig and Javier Serrat, "Lock them Up: Zero-deployed Non-strategic Nuclear Weapons in Europe," UNIDIR, 2017
20. Pavel Podvig, "Verifiable Declarations of Fissile Material Stocks: Challenges and Solutions," in Anatoly S. Diakov, Alexander Glaser, Malte Göttsche, Pavel Podvig "FM(C)T Meeting Series--Verifiable Declarations of Fissile Material Stocks: Challenges and Solutions." UNIDIR, 2017
21. Pavel Podvig, "Did Star Wars Help End the Cold War? Soviet Response to the SDI Program," *Science & Global Security* 25, no. 1 (2017): 3-27
22. Pavel Podvig, "Review of Kelleher, Catherine McArdle; Dombrowski, Peter, eds., *Regional Missile Defense from a Global Perspective*." H-Diplo, H-Net Reviews. January, 2017.
23. Pavel Podvig, "Russia and Nuclear Disarmament: Building on the New START," in Oliver Meier and Elisabeth Suh (eds.), "Reviving Nuclear Disarmament: Paths Towards a Joint Enterprise," German Institute for International and Security Affairs, December 2016
24. Pavel Podvig, "Fissile Material (Cut-off) Treaty: Definitions, Verification, and Scope," UNIDIR, 2016
25. FM(C)T: Elements of the Emerging Consensus, in Pavel Podvig, Annette Schaper, and Zia Mian, "FM(C)T Meeting Series. FM(C)T: Elements of the Emerging Consensus," UNIDIR, 2016
26. Can the US-Russia plutonium disposition agreement be saved? *Bulletin of the Atomic Scientists*, 28 April 2016
27. Blurring the Line between Nuclear and Nonnuclear Weapons: Increasing the Risk of Accidental Nuclear War? *The Bulletin of the Atomic Scientists*, 72, no. 3 (April 15, 2016)
28. Sorting fact from fiction on Russian missile claims, *The Bulletin of the Atomic Scientists*, 22 June 2015
29. Russia Tests Hypersonic Glide Vehicle, (with Alexander Stukalin) *Jane's Intelligence Review*, June 4, 2015

30. "Russia, Strategic Stability, and Nuclear Weapons," in *The War That Must Never Be Fought: Resolving the Nuclear Dilemma*, edited by George P. Shultz and James E. Goodby, 143-74. Stanford, California: Hoover Institution Press, 2015.
31. What to do about Russian belligerence, *The Bulletin of the Atomic Scientists*, 16 January 2015
32. Pavel Podvig, "Fissile Material (Cutoff) Treaty: Verification Challenges," (Working paper prepared for the Group of Governmental Experts on FMCT), UNIDIR, 2014
33. Pavel Podvig, "Missile defense and the myth of strategic stability," Presented at the workshop on "Stability Issues in a New Nuclear Order," Berlin, December 15-16, 2014
34. Pavel Podvig, "Russia's nuclear modernization and the defense industry," Working paper, Russian Nuclear Posture and Policy Project, Fondation pour la Recherche Stratégique, 2014
35. Pavel Podvig, "Fissile Material (Cutoff) Treaty: Definitions, Verification, and Scope," (Working paper prepared for the Group of Governmental Experts on FMCT), UNIDIR, 2014
36. Tamara Patton, Pavel Podvig, Phillip Schell, *A New START Model for Transparency in Nuclear Disarmament*, UNIDIR, 2013
37. Tamara Patton, Pavel Podvig, Phillip Schell, *A New START Model for Transparency in Nuclear Disarmament: Individual Country Reports*, UNIDIR, 2013
38. Pavel Podvig, "Did Star Wars Help End the Cold War? Soviet Response to the SDI Program," Russian Nuclear Forces Project, Working Paper, March 2013
39. Pavel Podvig, "New START and non-strategic nuclear weapons," Working paper, APS-CSIS Workshop "Technical and Policy Issues Associated with a U.S. - Russian Agreement on Non-Strategic Nuclear Weapons", February 25-26, 2013, Washington, DC
40. Pavel Podvig, "Development of Soviet and Russian Ballistic Missile Defense in the 20th Century," in A. G. Arbarov and V. Z. Dvorkin, eds, *Missile Defense: Confrontation or cooperation?*, Carnegie Moscow Center, 2012
41. Pavel Podvig, "Fissile Materials Outside of Civilian Programs," Working paper, NTI Meeting "Global Dialogue on Nuclear Security Priorities," October 9-11, 2012
42. Pavel Podvig, Chapter on Russian Federation in Ray Acheson, ed., *Assuring destruction forever: nuclear weapon modernization around the world*, Published by Reaching Critical Will, a project of the Women's International League for Peace and Freedom, March 2012
43. Pavel Podvig, "Disposition of Excess Military Nuclear Material," UNIDIR Briefing, United Nations, February 2012
44. Pavel Podvig, "Practical steps toward transparency of nuclear arsenals," UNIDIR Briefing, United Nations, January 2012
45. Pavel Podvig, *Global Nuclear Security: Building Greater Accountability and Cooperation*, November 2011, United Nations.
46. Pavel Podvig, "Russia's Nuclear Forces: Between Disarmament and Modernization," IFRI Proliferation Papers, no. 37, Spring 2011.
47. Pavel Podvig, "History of Highly Enriched Uranium Production in Russia," *Science & Global Security* 19, no. 1 (2011): 46-67.
48. Pavel Podvig, "Russian Nuclear Forces," in *Fifth Italian Yearbook on Nuclear Disarmament and Non-Proliferation at the VIII Review Conference: the Role of Europe*, Italian Observatory on Arms Trade, 2011

49. Pavel Podvig, "Big bank theory - A new approach to nuclear fuel provision," *Jane's Intelligence Review*, February 18, 2011.
50. Pavel Podvig, "Instrumental Influences -- Russia and the 2010 Nuclear Posture Review," *The Nonproliferation Review*, 18(1), 39-50.
51. "Russia: Highly Enriched Uranium," Chapter 4 in *Global Fissile Material Report 2010. Balancing the Books: Production and Stocks*, Fifth annual report of the International Panel on Fissile Material, December 2010
52. Pavel Podvig, "START-up - The new Strategic Arms Reduction Treaty," *Jane's Intelligence Review*, Volume 22, Number 06, June 2010, Pages 48-53
53. Pavel Podvig, "Non-proliferation and arms control policies of the Obama administration: The first 15 months," *Yaderny Club*, Center for Energy and Security Studies, No. 1 (2), January-February 2010, pp. 33-36 (in Russian)
54. Pavel Podvig, "Strategic Rocket Forces: The 50th Anniversary," *Kommersant-Vlast*, No. 49 (852), December 14, 2009 (in Russian)
55. Pavel Podvig, "Nuclear renaissance: Security challenges of atomic power", *Jane's Intelligence Review*, Volume 21, Number 11, November 2009, Pages 47-51
56. Pavel Podvig, "START Follow-on Negotiations: Problems and Progress," *Russian Analytical Digest*, No. 66: US-Russian Relations, 20 Oct 2009
57. Pavel Podvig, "Russia and missile defense in Eastern Europe", Unpublished memo, August 2009.
58. Pavel Podvig, Susan S. Voss, "Use of highly-enriched uranium in Russian reactors", *Proceedings of the 50th Annual Meeting of the Institute for Nuclear Material Management*, July 12-16, 2009
59. Pavel Podvig, "Consolidation of Fissile Materials in the Russian Nuclear Complex", *International Panel on Fissile Materials Research Report*, May 2009
60. Pavel Podvig, "Building Institutions of U.S.-Russian Disarmament," *Project Base Camp Research Paper*, Center for a New American Security, April 2009
61. Pavel Podvig, "Consolidation of Fissile Materials in the Russian Nuclear Complex," *Proceedings of the 49th Annual Meeting of the Institute of Nuclear Materials Management*, Nashville, TN, July 13-17, 2008
62. Pavel Podvig, "The Window of Vulnerability That Wasn't: Soviet Military Buildup in the 1970s--A Research Note", *International Security*, Summer 2008, Vol. 33, No. 1: 118-138
63. "Front end of nuclear cycle," in "Security in a World with More Nuclear Power", Report based on the Stanford Workshop "The Security Implications of Increased Global Reliance on Nuclear Power", CISAC, Stanford University, 2008
64. Pavel Podvig, Fred Wehling, and Jing-dong Yuan, "Nuclear Weapons in a Changing Threat Environment," in Paul J. Bolt, Su Changhe, and Sharyl Cross, eds., *The United States, Russia, and China: Confronting Global Terrorism and Security Challenges in the 21st Century* (Praeger Security International, 2008)
65. Pavel Podvig, "Russia and the Military Use of Space," in Pavel Podvig and Hui Zhang *Russian and Chinese Responses to U.S. Military Plans in Space* (Cambridge, Mass.: American Academy of Arts and Sciences, 2008)
66. Pavel Podvig, "Did Star Wars Help End the Cold War? Soviet Response to the SDI Program", under review

67. Pavel Podvig, "Russia and Non-proliferation", Managing Global Insecurity Project, New York University and Brookings Institution, March 2007
68. Pavel Podvig, "Russia and the Prompt Global Strike Plan", PONARS Policy Memo Series, Memo No. 417, December 2006
69. Pavel Podvig, "Reducing the Risk of an Accidental Launch", *Science and Global Security*, vol. 14:75-115, 2006
70. Pavel Podvig, Review of Moltz, James Clay, Vladimir A. Orlov, and Adam N. Stulberg, eds. *Preventing Nuclear Meltdown: Managing Decentralization of Russia's Nuclear Complex* (Burlington, VT: Ashgate, 2004), *The Russian Review*, Volume 65, Number 1, January 2006, pp. 160-161.
71. Pavel Podvig, "The Russian Nuclear Arsenal", Case Study, Columbia International Affairs Online (<http://www.ciaonet.org/casestudy/case003/index.html>), November 2005
72. Pavel Podvig, "If it's broke, don't fix it," *Bulletin of the Atomic Scientists*, Vol. 61, No. 4, July/August 2005, pp. 21-22
73. Pavel Podvig, "Russian Strategic Forces in the Next Decade", Aspen Institute Italia, News Analysis Series, No. 3/05
74. Pavel Podvig, "Reducing the risk of accidental launch: Time for a new approach?", PONARS Policy Memo Series, Memo No. 328, February 2005
75. Pavel Podvig, "Missile defense after the ABM Treaty", *Yaderny Kontrol*, No. 1 (75), Vol. 11, 2005, pp. 51-64 (In Russian)
76. Pavel Podvig, "Missile Defense in U.S.-Soviet and U.S. Russian Strategic Relations, 1945-2003", Dissertation, PhD in political science. Institute of World Economy and International Relations. Moscow, June 2004
77. Pavel Podvig, "U.S.-Russian Cooperation in Missile Defense: Is It Really Possible?", PONARS Policy Memo Series, April 2003
78. Pavel Podvig, "Russian Early-Warning System and Danger of Inadvertent Launch", *Physics and Society*, Vol. 32, No. 1, January 2003.
79. Pavel Podvig, "A Desperate Pursuit of Parity" (a review of *The Kremlin's Nuclear Sword: The Rise and Fall of Russia's Strategic Nuclear Forces*, by Steven J. Zaloga, Smithsonian Institution Press, 2002), *Science and Global Security*, Vol. 10 (2002), pp. 223-225.
80. Pavel Podvig, "Who is in Charge?: Russia Handles Arms Control Negotiations", Program on New Approaches to Russian Security Policy Memo Series, Memo No. 277, December 2002.
81. Pavel Podvig, "History and the Current Status of the Russian Early-Warning System", *Science and Global Security*, Vol. 10 (2002), pp. 21-60.
82. Pavel Podvig, "Demise of the ABM Treaty", Program on New Approaches to Russian Security Academic Memo Series, May 2002 (in Russian)
83. Pavel Podvig, "The End of Strategic Arms Control?", Program on New Approaches to Russian Security Policy Memo Series, Memo No. 217, January 2002.
84. Anatoli Diakov, Pyotr Romashkin, Timur Kadyshv, Eugene Miasnikov and Pavel Podvig, "U.S.-Russian Relations in Nuclear Arms Reductions: Current State and Prospects," Center for Arms Control Studies, Dolgoprudny, 2001 (in Russian)
85. Paul Podvig, "Putin's Boost-Phase Defense: The Offer That Wasn't," Program on New Approaches to Russian Security Policy Memo Series, Memo No. 180, November 2000.



86. Anatoli Diakov, Timur Kadyshev, and Pavel Podvig, "Nuclear Parity and National Security in new Conditions", *Yaderny Kontrol (Nuclear Control)*, v. 5, no. 4 (Fall 2000), pp. 28-34
87. Pavel Podvig, "Est' li budushcheye u dogovora po PRO? (Does the ABM Treaty Have a Future?)" *Yaderniy Kontrol*, No. 5, September–October 2000, pp. 4–9 (in Russian).
88. Pavel Podvig, "START and the ABM Treaty: Is a Compromise Possible?" Program on New Approaches to Russian Security Policy Memo Series, Memo No. 132, April 2000.
89. Geoffrey Forden, Pavel Podvig and Theodore A. Postol, "False alarm, nuclear danger" *IEEE Spectrum*, March 2000, v. 37, Number 3.
90. Pavel Podvig, "START III and the ABM Treaty", Proceedings of the 10th International Arms Control Conference, Albuquerque, April 15-16, 2000.
91. Pavel Podvig, "A History of the ABM Treaty in Russia" Program on New Approaches to Russian Security Policy Memo Series, Memo No. 109, February 2000.
92. Pavel Podvig, "Russian Nuclear Forces in Ten Years with and without START II" Program on New Approaches to Russian Security Policy Memo Series, Memo No. 92, October 1999.
93. Pavel Podvig, "The Russian Strategic Forces: Uncertain Future" *Breakthroughs*, Spring 1998, vol. VII, No 1, pp. 11-21.
94. Pavel Podvig, "Smozhet li Rossiya sokhranit Dogovor po PRO? (Could Russia Save the ABM Treaty?)" *Yaderniy Kontrol*, No. 23, November 1996, pp. 2–5 (in Russian).
95. Pavel Podvig, "Nuclear Arsenals", in *Nuclear Encyclopedia*, A. A. Yaroshinskaya, ed., Moscow, Yaroshinskaya Charity Fund, 1996
96. Pavel Podvig, "Nuclear Weapons: Types, Principles and Effects", in *Nuclear Encyclopedia*, A. A. Yaroshinskaya, ed., Moscow, Yaroshinskaya Charity Fund, 1996
97. Pavel Podvig, "The Operational Status of the Russian Space-Based Early Warning System" *Science & Global Security*, 1994, v. 4, pp. 363–384.
98. P. L. Podvig, *Sovremennye sistemy protivoraketnoy oborony i Dogovor po PRO (Modern missile defense systems and the ABM Treaty)*, Center for Arms Control Studies, Dolgoprudny, 1994 (in Russian).

#### Op-eds and columns

99. Pavel Podvig, "Who lost the INF Treaty?", *Bulletin of the Atomic Scientists*, 26 October 2018
100. Pavel Podvig, "Could the U.S. missile defense system counter Russian nuclear forces?" (in Russian: Павел Подвиг, "Условие сдерживания. Сможет ли американская ПРО обесценить ядерный потенциал России"), *N+1 (Nplus1.ru)*, 10 May 2018
101. Pavel Podvig, "Is a return to INF Treaty compliance possible?" *Kommersant*, 12 August 2017 (in Russian: Павел Подвиг, "Возможен ли возврат к соблюдению Договора о РСМД?" *Коммерсантъ*, 12 августа 2017 г.)
102. Pavel Podvig, "The price of the question (First Putin-Trump meeting and the INF Treaty)", *Kommersant*, 7 July 2017 (in Russian: Павел Подвиг, "Цена вопроса," *Газета "Коммерсантъ"*, 7 июля 2017 г.)
103. Pavel Podvig, "Can the US-Russia plutonium disposition agreement be saved?", *Bulletin of the Atomic Scientists*, 28 April 2016
104. Pavel Podvig, "Sorting fact from fiction on Russian missile claims," *The Bulletin of the Atomic Scientists*, 22 June 2015

105. Pavel Podvig, "What to do about Russian belligerence," *The Bulletin of the Atomic Scientists*, 16 January 2015
106. Pavel Podvig, "How fissile material falls through the cracks," *The Bulletin of the Atomic Scientists*, 7 July 2014
107. Pavel Podvig, "What the Crimea crisis will do to US-Russia relations," *The Bulletin of the Atomic Scientists*, 27 March 2014
108. Pavel Podvig, "No such thing as a safe nuclear arsenal," *The Bulletin of the Atomic Scientists*, 14 January 2014
109. Pavel Podvig, "Unexpected dangers," *The Bulletin of the Atomic Scientists*, 7 October 2013
110. Pavel Podvig, "A case for unilateral US nuclear warhead reductions," *The Bulletin of the Atomic Scientists*, July 1, 2013
111. Pavel Podvig, "The myth of strategic stability," *The Bulletin of the Atomic Scientists Online*, 31 October 2012
112. Pavel Podvig, "Point of distraction," *The Bulletin of the Atomic Scientists Online*, 1 June 2012.
113. Pavel Podvig, "Toward a better Nuclear Security Summit," *The Bulletin of the Atomic Scientists Online*, February 22, 2012
114. Pavel Podvig, "Toward the Seoul Nuclear Security Summit," *The Korea Herald*, January 15, 2012
115. Pavel Podvig, "Nuclear disarmament after New START," *RUFS Briefing No. 7, RUFS Project, FOI, Stockholm*, January 2011
116. Pavel Podvig, "Offense and defense after New START," *The Bulletin of the Atomic Scientists Online*, 6 January 2011
117. Pavel Podvig, "NATO and the future of missile defense in Europe," *The Bulletin of the Atomic Scientists Online*, 28 October 2010
118. Pavel Podvig, "New START Treaty and Beyond," *Physics and Society*, Vol. 93, No. 3, July 2010, pp. 12-15
119. Pavel Podvig, "Assessing START follow-on", *The Bulletin of the Atomic Scientists Online*, March 29, 2010
120. Pavel Podvig, "What to do about tactical nuclear weapons," *The Bulletin of the Atomic Scientists Online*, 25 February 2010
121. Pavel Podvig, "Russia does not need nuclear weapons for its security ," *Vremya Novostey*, No. 219, 29 November 2009 (in Russian)
122. Pavel Podvig, "The false promise of missile defense", *The Bulletin of the Atomic Scientists Online*, September 14, 2009
123. Pavel Podvig, "What's next for START follow-on?" *Observatoire de la non-prolifération, Centre d'Etudes de Sécurité Internationale et de Maîtrise des armements*, No. 40, JUILLET/AOÛT 2009
124. Pavel Podvig, "The Moscow summit: A positive first step," *The Bulletin of the Atomic Scientists Online*, 22 July 2009
125. Pavel Podvig, "What if North Korea were the only nuclear weapon state?", *The Bulletin of the Atomic Scientists Online*, May 27, 2009

126. Pavel Podvig, "Reaction to the Obama-Medvedev joint statement on arms control," *The Bulletin of the Atomic Scientists Online*, April 3, 2009
127. Pavel Podvig, "Broadening the disarmament agenda through START", *The Bulletin Online*, 4 March 2009
128. Pavel Podvig, "Russia's new arms development", *The Bulletin of the Atomic Scientists Online*, January 16, 2009
129. Pavel Podvig, "Formulating the next U.S.-Russian arms control agreement", *The Bulletin of the Atomic Scientists Online*, December 18, 2008
130. Pavel Podvig, "Barack Obama's missile defense challenge", *The Bulletin of the Atomic Scientists Online*, November 11, 2008
131. Pavel Podvig, "A silver lining to the U.S.-India nuclear deal", *The Bulletin of the Atomic Scientists Online*, October 14, 2008
132. Pavel Podvig, "U.S.-Russian relations after the conflict in Georgia", *Bulletin of the Atomic Scientists Online*, August 25, 2008
133. Pavel Podvig, "The fallacy of the Megatons to Megawatts program", *The Bulletin of the Atomic Scientists Online*, July 23, 2008
134. Pavel Podvig, "The push for a new arms control agreement with Russia is ill-conceived," *Bulletin of the Atomic Scientists Online*, June 3, 2008
135. Pavel Podvig, "Don't block U.S.-Russian nuclear cooperation," *Bulletin of the Atomic Scientists Online*, May 22, 2008
136. Pavel Podvig, "The realities of nuclear fuel supply guarantees", *Bulletin of the Atomic Scientists Online*, April 18, 2008
137. Pavel Podvig, "The U.S. satellite shutdown: An unnecessary action", *Bulletin of the Atomic Scientists Online*, February 29, 2008
138. Pavel Podvig, "The truth about Russia's military 'resurgence'", *Bulletin of the Atomic Scientists Online*, January 29, 2008
139. Pavel Podvig, "How Russia's nuclear fuel delivery to Iran benefits nonproliferation", *Bulletin of the Atomic Scientists Online*, December 20, 2007
140. Pavel Podvig, "U.S. nuclear weapons security--a 'silly' notion", *Bulletin of the Atomic Scientists Online*, November 12, 2007
141. Pavel Podvig, "Russia and nuclear disarmament", *Bulletin of the Atomic Scientists Online*, October 17, 2007
142. Vladimir Dvorkin, George Lewis, Pavel Podvig, Theodore Postol, "Missile Defense in Europe: Dangers and Opportunities", *Nezavisimoye Voyennoye Obozreniye (Independent Military Review)*, September 28, 2007 (in Russian)
143. Pavel Podvig, "U.S. loose nukes", *Bulletin of the Atomic Scientists Online*, September 13, 2007
144. Pavel Podvig, "How to make U.S.-Russian relations meaningful", *Bulletin of the Atomic Scientists Online*, August 15, 2007
145. Pavel Podvig, "Why START is important", *Bulletin of the Atomic Scientists Online*, July 3, 2007
146. Pavel Podvig, "The U.S. and Russia's 'ludicrous' missile defense rhetoric", *Bulletin of the Atomic Scientists Online*, May 23, 2007

147. Pavel Podvig, "Boris Yeltsin's arms control legacy", *Bulletin of the Atomic Scientists Online*, April 30, 2007
148. Pavel Podvig, "A U.S.-Russian missile defense cooperative?", *Bulletin of the Atomic Scientists Online*, April 24, 2007
149. Pavel Podvig, "Behind Russia and Iran's Nuclear Reactor Dispute", *Bulletin of the Atomic Scientists Online*, March 26, 2007
150. Pavel Podvig, "Missile defense: The Russian reaction", *Bulletin of the Atomic Scientists Online*, February 26, 2007
151. Pavel Podvig, "Life after START", *Bulletin of the Atomic Scientists Online*, January 9, 2007
152. Pavel Podvig, "Open to question", in "Nuclear Exchange: Does Washington Really Have (or Want) Nuclear Primacy?", Peter C. W. Flory, Keith Payne, Pavel Podvig, Alexei Arbatov, Keir A. Lieber, and Daryl G. Press, *Foreign Affairs*, September/October 2006
153. Pavel Podvig, "Labyrinths of Missile Defense Cooperation", *Izvestia*, 24 June 2003 (in Russian)
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163. Anatoly Diakov, George Lewis, Pavel Podvig, Theodore Postol, "Razrusheniye Dogovora po PRO? (The End of the ABM Treaty?)" *Nezavisimoye Voennoye Obozreniye*, No. 37, 3 October 1997, p.1 (in Russian).
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### **Presentations, panels, and testimonies**

1. Pavel Podvig, "Verified end of fissile material production in DPRK," Presentation at a seminar "Denuclearization and the Korean Peninsula," ROK-UNIDIR, Palais des Nations, Geneva, 6 December 2019
2. Pavel Podvig, "Nuclear security in the NPT context." Presentation at the conference "Thematic Seminar on Pillar III: the Peaceful Uses of Nuclear Energy," UNODA, Vienna, 20-21 November 2019
3. Pavel Podvig, "Toward 2020 NPT Review Conference." Presentation at the 18th Republic of Korea-United Nations Joint Conference on Disarmament and Non-proliferation Issues, UNODA and ROK MFA, Seoul, 13-14 November 2019
4. Pavel Podvig, "The prospects for arms control." Presentation at the conference "Europe's Strategic Choices," Chatham House and Institute for Security Policy, University of Kiel, Berlin, 7-8 November 2019
5. Pavel Podvig, "Missiles and stability in Europe." Presentation at the First Meeting of the Missile Dialogue Initiative, German MFA and IISS, Berlin, 17-18 October 2019
6. Pavel Podvig, "Measures to promote new nuclear-weapon-free zones." Presentation at the conference "Fostering cooperation and enhancing consultation mechanisms among the existing nuclear-weapon-free zones", UNODA-Kazakhstan MFA, Nur-Sultan, Kazakhstan, 28-29 August 2019
7. Pavel Podvig, "Simplifying the elimination of fissile materials and nuclear weapons." Presentation of UNIDIR research report, Palais des Nations, Geneva, 15 August 2019
8. Pavel Podvig, "Prospects for arms control in the post-INF Treaty world," Conference "Nuclear Comeback Time in Europe?" Protestant Academy, Loccum, Germany, 24-26 June 2019
9. Pavel Podvig, "Deferred verification: Verified declarations of fissile material stocks." Presentation at a seminar, VCDNP, Vienna, 19 June 2019
10. Pavel Podvig, "Plutonium in Russia." Workshop on Practical Measures to Reduce Nuclear Risks from Fissile Material, George Washington University and VCDNP, Vienna, 18-19 June 2019
11. Pavel Podvig, "Nuclear command and control and AI," Presentation at the Transregional Workshop "Mapping the Impact of Machine Learning and Autonomy on Strategic Stability and Nuclear Risk," SIPRI, East-West Institute, Carnegie Corporation of New York, New York, 8-9 May 2019
12. Pavel Podvig, "Arms control past and present - a Russian perspective," Presentation at the Stanford-MEPHI Young Professionals Nuclear Forum #5, CISAC, Stanford University, April 30-May 4, 2019
13. Pavel Podvig, "New approaches to verification in nuclear disarmament," Presentation at the Annual Meeting of the German Physical Society, 14 March 2019, Rostock
14. Pavel Podvig, "Managing Risks of Fissile Materials," Presentation at a Global Enterprise to Strengthen Nonproliferation and Disarmament, NTI, Paris, 4 February 2019

15. Pavel Podvig, "Nuclear disarmament and nuclear security." Presentation at the UNIDIR First Committee side event (with Heidi Hulan, Sharon Squassoni, and Ryan Snyder), United Nations Headquarters, New York, 19 October 2018
16. Pavel Podvig, "Verifying the removal of nuclear weapons." Presentation at the UNIDIR First Committee side event (with Ann-Sofie Nilsson, Christine Parthemore, and Wilfred Wan), United Nations Headquarters, New York, 18 October 2018
17. Pavel Podvig, "New technologies and weapons of mass destruction." Presentation at a session of the Subsidiary Body 5 of the Conference on Disarmament, Palais des Nations, Geneva, 23 August 2018
18. Pavel Podvig, Zia Mian, Moritz Kütt, Alexander Glaser, "Global Fissile Material Stocks 2018." Presentation at the 59th Annual Meeting of the Institute of Nuclear Materials Management, Baltimore, 23 July 2018
19. Pavel Podvig, "Deferred verification: Verifiable declarations of fissile material stocks." Presentation at the 59th Annual Meeting of the Institute of Nuclear Materials Management, Baltimore, 23 July 2018
20. Pavel Podvig, "The Use of Highly-Enriched Uranium as Fuel in Russia." Presentation at the 3rd International Symposium on Highly Enriched Uranium (HEU) minimisation, Oslo, 6 June 2018
21. Pavel Podvig, "Elements of a Fissile Material Cutoff Treaty." Presentation at a session of the Subsidiary Body 2 of the Conference on Disarmament, Palais des Nations, Geneva, 15 May 2018
22. Pavel Podvig, "Verification without access to weapons and related fissile materials." Presentation at the UNIDIR event "Beyond the Warhead: Rethinking Nuclear Disarmament Verification" (with Alexander Glaser, Malte Göttsche, and Tamara Patton), Palais des Nations, Geneva, 15 May 2018
23. Pavel Podvig, "Verifying nuclear disarmament without access to sensitive information." Presentation at a NPT PrepCom 2018 side event (with Anja Kaspersen, Annette Schaper, Matthew Rowland and Sabrina Dallafior), UNODA, Palais des Nations, Geneva, 4 May 2018
24. Pavel Podvig, "Removal of nuclear weapons in the context of nuclear disarmament." Presentation at the NPT PrepCom 2018 side event "Practical Aspects of Nuclear Disarmament Verification " (with Jarmo Viinanen, Wilfred Wan, and Ryan Snyder), Palais des Nations, Geneva, 27 April 2018
25. Pavel Podvig, "Options for reducing the risks of nuclear weapons." Presentation at an NPT PrepCom 2018 briefing on nuclear risks hosted by the Mission of Poland (with Bruce Blair), Palais des Nations, Geneva, 27 April 2018
26. Pavel Podvig, "Dealing with risks of nuclear weapons." Presentation at the NPT PrepCom 2018 Pugwash side event The new nuclear arms race and the NPT" (with Sergio Duarte, Sharon Squassoni, Hans Kristensen, Sergey Batsanov, Wael Al Assad, Paolo Cotta Ramusino), Palais des Nations, Geneva, 23 April 2018
27. Pavel Podvig, "Deferred verification: Verifiable declarations of fissile material stocks." Presentation to a working group of the International Partnership on Nuclear Disarmament Verification, Stockholm, 27 March 2018
28. Pavel Podvig, "Nuclear and strategic issues in U.S.-Russian relations." Presentation at a conference "Conflict and Cooperation in U.S.-Russia security relations" (with Olga Oliker and Matthew Kroenig), Harriman Institute, Columbia University, New York, 23 March 2018

29. Pavel Podvig, "New technologies and strategic stability." Presentation at the Dialogue on U.S.-Russian Crisis Stability, CSIS, Washington, DC, 20 March 2018
30. Pavel Podvig, "Elements of a Fissile Material Cut-off Treaty," Presentation at Informal Consultative Meeting pursuant to A/RES/71/259, UN Headquarters, New York, 15 February 2018
31. Pavel Podvig, "Verifiable declarations of fissile material stocks," Launch of the UNIDIR research report "Deferred verification: Verifiable Declarations of Fissile Material Stocks," Palais des Nations, Geneva, 8 December 2017
32. Pavel Podvig, "New military capabilities and the NATO-Russia nuclear deterrence relationship," Presentation at the European Leadership Network meeting "The NATO-Russia nuclear deterrence relationship: risks and recommendations," Brussels, 12-13 October 2017
33. Pavel Podvig, "The use of HEU as fuel in Russia," Launch of the IPFM research report "The Use of Highly-Enriched Uranium as Fuel in Russia," Hosted by the Fissile Materials Working Group, Washington, DC, 11 October 2017
34. Pavel Podvig, "Tactical nuclear weapons in Europe: Possibilities and challenges for arms control," Presentation at a panel discussion (with Steven Pifer, Izumi Nakamitsu, and Jarmo Viinanen), Permanent Mission of Finland to the UN, New York, 10 October 2017
35. Pavel Podvig, "Verifiable declarations of fissile material stocks," Presentation at a UNIDIR side-event, UN First Committee, New York, 9 October 2017
36. Pavel Podvig, "Advanced delivery systems and nuclear disarmament," Presentation at a session of the Conference on Disarmament (on behalf of the delegation of Belarus), Palais des Nations, 29 August 2017
37. Pavel Podvig, "Elements of a Fissile Material Cut-off Treaty," Presentation at a Briefing Session for High-level FMCT expert preparatory group participants, Hosted by the Canadian Permanent Mission to the United Nations, Geneva, 1 August 2017
38. Pavel Podvig, "Lock them up! A proposal to discuss the prospects for arms control on tactical nuclear weapons in Europe," Presentation at the Stiftung Wissenschaft und Politik (the German Institute for International and Security Affairs, SWP), Berlin, 19 May 2017
39. Pavel Podvig, "Russia's non-strategic nuclear weapons," Presentation at a German Council on Foreign Relations seminar "Russia's Nuclear Strategy," Deutscher Bundestag, Berlin, 18 May 2017
40. Pavel Podvig, "Zero-deployed nuclear weapons in Europe," Presentation at a UNIDIR event "Lock them Up: Zero-deployed Non-strategic Nuclear Weapons in Europe," Palais des Nations, 3 April 2017
41. Pavel Podvig, "Could unexpected interactions cause the use of nuclear weapons?" Presentation at the UNIDIR Panel "Understanding Nuclear Weapons Risks", Palais des Nations, Geneva, 25 January 2017
42. Pavel Podvig, "International cooperation in nuclear security," Presentation of "Last Best Chance" hosted by the U.S. Mission in Vienna, Vienna International Center, Vienna, 8 December 2016
43. Pavel Podvig, "Addressing Disparities in a Non-discriminatory Fissile Material Treaty," Presentation at the Third Meeting of the UNIDIR FM(C)T Meeting Series, Palais des Nations, Geneva, 29 November 2016

44. Pavel Podvig, "The Use of Highly-Enriched Uranium as Fuel in Russia", RERTR 2016 - 37th International Meeting on Reduced Enrichment for Research and Test Reactors, Antwerp, Belgium, October 23-27, 2016
45. Pavel Podvig, "Building blocks of the future fissile material (cut-off) treaty," Presentation at the UN First Committee side event, New York, 20 October 2016
46. Pavel Podvig, "Russian Nuclear Strategy," Presentation at CSIS Russian Military Capabilities Conference Series (with Olga Oliker, Nikolai Sokov) , Washington, DC, 27 June 2016...
47. Pavel Podvig, "Group of Governmental Experts and FM(C)T," Presentation at the CSIS Workshop "Fissile Material Restrictions in Nuclear Weapon States: Treaties and Transparency," Washington, DC, June 27-28, 2016
48. Pavel Podvig, "Moving beyond the New START treaty," Presentation at the conference "Reviving nuclear disarmament: paths towards a joint enterprise," German Institute for International and Security Affairs (SWP), Berlin, June 16-17, 2016
49. Pavel Podvig, "Verifiable Declarations of Fissile Material Stocks: Challenges and Solutions", Presentation at the Second Meeting of the UNIDIR FM(C)T Meeting Series, Palais des Nations, Geneva, 1 June 2016
50. Pavel Podvig, "FM(C)T: Elements of the Emerging Consensus", Presentation at the First Meeting of the UNIDIR FM(C)T Meeting Series, Palais des Nations, Geneva, 23 March 2016
51. Pavel Podvig, "Group of Governmental Experts and next steps on FMCT," Presentation at the annual meeting of the International Panel on Fissile Materials, Washington, DC, 14-15 March 2016
52. Pavel Podvig, "Steps toward eliminating nuclear risks," Presentation at the Open-ended Working Group "Taking forward multilateral disarmament negotiations", UN Office in Geneva, 25 February 2016
53. Pavel Podvig, "The use of highly enriched uranium in Russia. Current status and prospects for minimization," Presentation at the Program on Science and Global Security, Princeton University, 11 November 2015
54. Pavel Podvig, "Russian HEU facilities", Presentation at a meeting of the NAS Committee on the Current Status of and Progress toward Eliminating Highly Enriched Uranium Use in Fuel for Civilian Research and Test Reactors, May 21, 2015, Washington, DC
55. Pavel Podvig, "Missile defense and strategic stability," Presentation at the workshop on "Stability Issues in a New Nuclear Order," Berlin, December 15-16, 2014
56. Pavel Podvig, "Use of highly-enriched uranium in Russia's reactors," Presentation to the National Academy of Sciences Committee on Current Status of and Progress toward Eliminating Highly Enriched Uranium Use in Fuel for Civilian Research and Test Reactors, Washington, DC, October 24, 2014
57. Pavel Podvig, "Russia's policy on nuclear weapons and arms control", Presentation at the workshop "Deterrence and Assurance in the New European Security Environment", RAND Corporation, Arlington, VA, October 24, 2014
58. Pavel Podvig, "The modernization of Russia's nuclear arsenal," Presentation at the workshop Russian Nuclear Posture and Policy, Fondation pour la Recherche Stratégique, Paris, France, September 29, 2014
59. Pavel Podvig, "Fissile Material (Cutoff) Treaty: Definitions, Verification, and Scope," Presentation to the Group of Governmental Experts on FMCT, Palais des Nations, Geneva, 11 August 2014



60. Pavel Podvig, "Use of HEU in Russia's research reactors and facilities," Presentation at the workshop "International cooperation on HEU minimization," Moscow, 17 June 2014
61. Pavel Podvig, "Transparency and accountability in nuclear disarmament," Presentation at the NPT Review Conference side event "Practical Steps Towards Nuclear Disarmament," United Nations Headquarters, New York, 28 April 2014
62. Pavel Podvig, "Data exchanges: The START experience," Presentation at the workshop Non-Strategic Nuclear Weapons in Europe: Transparency and Confidence-Building Measures in Practice, German Institute for International and Security Affairs (SWP), Berlin, 27-28 March 2014
63. Pavel Podvig, "Use of HEU in Russian research facilities," IAEA-Princeton Consultancy Meeting on "International cooperation in minimizing the use of HEU in research," September 25-26, 2013, IAEA, Vienna, Austria
64. Pavel Podvig, "The role of transparency in nuclear disarmament," Presentation to the Open-ended Working Group to Develop Proposals to Take forward Multilateral Nuclear Disarmament Negotiations for the Achievement and Maintenance of a World without Nuclear Weapons, United Nations, 17 May 2013, Geneva, Switzerland
65. Pavel Podvig, "Fissile material cutoff, transparency and nuclear security," Presentation at the 2013 NPT PrepCom Side Event "Beyond Verification, Definitions and Scope: Other Issues to be Addressed in an FMCT" (with Ignacio Cartagena and Mark Verstedden), 26 April 2013, Palais des Nations, Geneva, Switzerland
66. Pavel Podvig, "A New START model for transparency and accountability in nuclear disarmament," Presentation at the 2013 NPT PrepCom Side Event "Increasing Transparency of Nuclear-warhead and Fissile-material Stocks as a Step toward Disarmament," (with Zia Mian and Frank von Hippel), 24 April 2013, Permanent Representation of the Kingdom of the Netherlands in Geneva, Switzerland
67. Pavel Podvig, "A New START model for transparency and accountability in nuclear disarmament," Presentation at the 2013 NPT PrepCom Side Event "Practical Steps towards Transparency in Nuclear Disarmament" (with Tamara Patton and Phillip Schell), 23 April 2013, United Nations, Geneva, Switzerland
68. Pavel Podvig, "Fissile Material Cut-off Treaty: A Nuclear Security Perspective," Presentation at the Geneva Forum/IAEA Geneva seminar "Reducing Nuclear Threats: A Comprehensive Approach," 12 November 2012, Geneva, Switzerland.
69. Pavel Podvig, "Fissile Materials Outside of Civilian Programs," Presentation at the NTI Meeting "Global Dialogue on Nuclear Security Priorities," Dalfsen, Netherlands, October 9-11, 2012
70. Pavel Podvig, "New START and transparency of nuclear forces," Presentation at the International Panel on Fissile Materials Workshop on Transparency, Princeton University, March 30, 2012.
71. Pavel Podvig, "Disposition of Excess Military Nuclear Material," Presentation at the UNIDIR/Geneva Forum seminar "Disposing of Military Nuclear Material under the 2010 NPT Action Plan," February 22, 2012, Palais des Nations, Geneva, Switzerland
72. Pavel Podvig, "Missile proliferation and missile defense," Presentation at the Space and Missile Proliferation Panel of the EU Non-Proliferation and Disarmament Conference, Brussels, 3 February 2012.

73. Pavel Podvig, "Practical steps toward transparency of nuclear arsenals," Presentation at the UNIDIR/Geneva Forum briefing "Transparency in the NPT 2010 Action Plan: Concept and Practice," January 30, 2012, Palais des Nations, Geneva, Switzerland
74. Pavel Podvig, "Challenges of HEU minimization," Presentation at the 2nd International Symposium on HEU Minimization, Vienna, Austria, 23-25 January 2012
75. Pavel Podvig, "International Cooperation Mechanisms on Nuclear Security," Presentation at the seminar "Nuclear Security: Challenges and Opportunities," United Nations, 8 November 2011, Geneva, Switzerland
76. Pavel Podvig, "Strengthening the International Nuclear Security Regime," Presentation at the seminar "The Nuclear Fuel Cycle: Meeting the Global Challenge," United Nations, 13 October 2011, New York.
77. Anatoli Diakov, Pavel Podvig, "Nuclear Spent Fuel Management: Russian Federation," Presentation at "The Challenges of Nuclear Spent Fuel Management: Lessons from Around the World," Center for Science, Technology and Security Policy, American Association for the Advancement of Science, Washington, DC, June 3, 2011
78. Pavel Podvig, "Russian Strategic Vessels," Presentation at the MareNuc Seminar "Marine Reactors in Arctic waters: New challenges in construction, designs and applications, and sailing routes," August 25-26, 2011, Reykjavik, Iceland
79. Anatoli Diakov, Pavel Podvig, "Nuclear Spent Fuel Management: Russian Federation," Presentation at a Capitol Hill Briefing by the International Panel on Fissile Materials "The Challenges of Nuclear Spent Fuel Management: Lessons from Around the World," Washington, DC, June 3, 2011
80. Pavel Podvig, "A Russian perspective on nuclear arms control after New START," The British American Security Information Council (BASIC) and the Verification Research, Training and Information Centre (VERTIC) Congressional Briefing, Washington, DC, March 31, 2011
81. Pavel Podvig, "Securing Russian fissile materials," German Physical Society Conference, Dresden, March 16, 2011
82. Pavel Podvig, "Tactical Nuclear Weapons in Europe - a Russian Perspective," Presentation at "Nuclear Weapons and European Security – a Good Match?" Seminar by SIPRI and the Swedish Defence Research Agency (FOI), Stockholm, January 26, 2011
83. Pavel Podvig, "Future of Nuclear Arms Control - a Russian Perspective," Presentation at the International Round Table "Nuclear Weapons and Arms Control," Swedish Defence Research Agency, FOI, Stockholm, January 24-25, 2011
84. Pavel Podvig, "Highly enriched uranium and plutonium elimination programs," Presentation at the 24th ISODARCO Winter Course "Eliminating Nuclear Weapons and Safeguarding Nuclear Technologies," Andalo (Trento), Italy, 09-16 January 2011
85. Pavel Podvig, "Future U.S.-Russian arms control process", Presentation on the panel "Nuclear Reductions: the future of the U.S.-Russia process" (with Marcie Ries and Paul Ingram), Wilton Park Conference "Nuclear non-proliferation: What now after the 2010 NPT Review?" (WP1062), Wilton Park, U.K., December 13-17, 2010
86. Pavel Podvig, "Future for U.S.-Russian Nuclear Cooperation After New START," Center for Preventive Actions Roundtable, Council on Foreign Relations, New York, December 6, 2010
87. Pavel Podvig, "The Future of U.S.-Russian Arms Control," Presentation at the STEP Seminar, Princeton University, November 22, 2010

88. Anatoli Diakov, Pavel Podvig, "Spent Nuclear Fuel Management in Russia," Presentation at the Workshop on Spent Fuel, International Panel on Fissile Materials, Princeton University, November 19-10, 2010
89. Pavel Podvig, "Dangers of militarization of space," Presentation on the panel "Keep space for Peace" (with Sverre Lodgaard, Morten Bremer Mærli, and Jakob Børresen), Oslo, Norway, September 27, 2010
90. Pavel Podvig, "Russian HEU production, disposition and stocks," Presentation at the Workshop on National Fissile Materials Stocks, International Panel on Fissile Materials, Princeton University, June 4-5, 2010
91. Pavel Podvig, "New START and Missile Defense", Presentation on the panel "Strategic Arms Reduction Treaty and Missile Defense" (with Vladimir Yermakov, Mark Fitzpatrick, and Malcolm Chalmers), The Eleventh RUSI Missile Defense Conference: Refocusing European Missile Defense, Royal United Services Institute for Defence and Security Studies (RUSI), London, May 26-27, 2010
92. Pavel Podvig, "Russia, Missile Defense and Nuclear Disarmament," Strategic Missile Defence and Nuclear Stability at Low Numbers, Seminar of the Royal United Services Institute for Defence and Security Studies (RUSI), London, May 25, 2010
93. Pavel Podvig, "U.S.-Russian Arms Control: New START and Beyond," Presentation at the International Panel on Fissile Materials meeting with members of the Diet, Tokyo, March 18, 2010
94. Pavel Podvig, "U.S.-Russian Arms Control: New START and Beyond," International Panel on Fissile Materials, Tokyo, March 18-20, 2010
95. Pavel Podvig, "New START and Prospects for U.S - Russian Nuclear Reductions and Disarmament," Guest lecture, Geneva Center for Security Policy, Geneva, Switzerland, 4 March 2010
96. Pavel Podvig, "U.S.-Russian cooperation in nuclear disarmament and nonproliferation," Session D5 (Nonproliferation), American Physical Society April Meeting 2010, Washington, DC, February 13, 2010
97. Pavel Podvig, "Progress in U.S.-Russian arms control," Bulletin of the Atomic Scientists Doomsday Clock Symposium, Nuclear Security Panel, New York, 13 January 2010
98. Pavel Podvig, "2010 NPT Review Conference", Nuclear debate: Views on the NPT Review Conference, U.K. Foreign and Commonwealth Office, December 2009
99. Pavel Podvig, "The U.S.-Russia Reductions Framework Post-START", Wilton Park Conference 1008 Nuclear Non-Proliferation and the 2010 Review, Wilton Park, U.K., December 14-18, 2009
100. Pavel Podvig, "U.S.-Russian arms control talks: status and prospects", Zero Nuclear Weapons Forum, Toronto, Canadian Pugwash, November 13-15, 2009 (by teleconferencing)
101. Pavel Podvig, "Options for verification of a ban on weapons in space," Presentation at the workshop "Latest Developments on Space Security and Disarmament", Secure World Foundation and UNIDIR, United Nations, New York, October 21, 2009
102. Pavel Podvig, "A Russian Perspective on Nuclear Disarmament", Public lecture, Unitarian Universalist Church, Palo Alto, California, September 17, 2009
103. Pavel Podvig, "Russian Strategic Nuclear Forces: Plans and Projections," Guest lecture, Monterey Institute of International Studies, September 17, 2009

104. Pavel Podvig, "The Soviet Union and the Arms Race: New Evidence, Old Interpretations, and the Lessons of History", Speaker Series, History Office and Research Director's Office, Defense Intelligence Agency, Washington, DC, September 10, 2009
105. Pavel Podvig, Susan S. Voss, "Use of highly-enriched uranium in Russian reactors", 50th Annual Meeting of the Institute for Nuclear Material Management, Tucson, Arizona, July 12-16, 2009
106. Pavel Podvig, "Russian strategic forces in 2025: options and issues", Seminar "Russian and Chinese Nuclear Postures in 2025", Institut français des relations internationales (IFRI), Paris, France, June 26, 2009
107. Pavel Podvig, "Nuclear Arms Control After START: A View from Russia", Wilton Park Conference "Managing Nuclear Weapons: Reductions, Drawdown and Elimination: What Makes Sense?" Wilton Park, U.K., June 18-21, 2009
108. Pavel Podvig, "Russian Strategic Forces: Between Modernization and Disarmament", Presentation at "NATO's Deterrence Challenges" workshop, Vilnius, Lithuania, 10-12 May 2009
109. Pavel Podvig, "Russia's policy on military space", Presentation at the panel "The Space-Nuclear Nexus" (with Michael Krepon, Philip Coyle, and Dingli Shen), 2009 Carnegie International Nonproliferation Conference, Washington, DC, April 6-7, 2009
110. Pavel Podvig, "Russia and missile defense in Europe," Presentation at the panel "Russia, Europe, NATO, and the Near Abroad," (with James Goldgeier and Steven Pifer), World Affairs Council of Northern California 2009 Annual Conference "Global Priorities: Critical Choices for the Obama Administration", San Francisco, CA, April 2-3, 2009
111. Pavel Podvig, "Russia's nuclear industry", Guest lecture, Stanford class "W09-IPS-262-01 Contemporary Issues in Nuclear Energy Policy", February 18, 2009
112. Pavel Podvig, "Did Reagan's 'Star Wars' Missile-Defense Program Help Win the Cold War? Evidence from Formerly Classified Soviet Documents", Presentation at the Davis Center for Russian Studies, Harvard University, January 22, 2009
113. Pavel Podvig, "Building institutions of U.S.-Russian disarmament", Presentation at Base Camp Project meeting, Center for a New American Security, Washington, DC, December 11, 2008
114. Pavel Podvig, "Nuclear Forces: Status and Trends", Panel on Nuclear weapons and Space (with S. Pete Worden and Will Marshall), SETI Institute, Mountain View, CA, December 10, 2008
115. Pavel Podvig, "Missile defense and Russia", Presentation at the 925th Wilton Park Conference "Missile Defence and the Transatlantic Alliance", 30 October-2 November, 2008, Wiston House, U.K.
116. Pavel Podvig, "Consolidation of Weapon Materials in Russian Nuclear Complex", Presentation at a seminar of the Managing the Atom project, Belfer Center, Harvard University, October 27, 2008
117. Pavel Podvig, "Sakharov's discussion of antiballistic missile systems", Presentation at the International Conference "40 Years after Andrei Sakharov's Reflections on Progress, Peaceful Coexistence and Intellectual Freedom: Russia Yesterday, Today and Tomorrow", October 24-25, 2008, Cambridge, MA

118. Anatoli Diakov, Pavel Podvig, "Russia's plans for Angarsk", Presentation at the MIT Workshop on Internationalizing Uranium Enrichment Facilities, October 20-21, 2008, MIT, Cambridge, MA
119. Pavel Podvig, "Russian Strategic Forces: Between Modernization and Disarmament", Presentation at the Threat Reduction Agency Advanced Systems and Concepts Office (DTRA/ASCO) Concepts Roundtable, United States Air Force Academy, Colorado Springs, CO, 12-14 August 2008
120. Pavel Podvig, "Consolidation of Fissile Materials in the Russian Nuclear Complex," Presentation at the 20th Summer Symposium on Science and World Affairs, Boston, MA, July 25-August 2, 2008
121. Pavel Podvig, "Nuclear Weapons: Reducing the Risk of an Accidental Launch", Presentation at the Conference on Science and Global Security, MIT, Cambridge, MA, July 24, 2008
122. Pavel Podvig, "Consolidation of Fissile Materials in the Russian Nuclear Complex," Presentation at the 49th Annual Meeting of the Institute of Nuclear Materials Management, Nashville, TN, July 13-17, 2008
123. Pavel Podvig, "Europe and Russia: Missile Defense Controversy", World Affairs Council of Northern California, San Francisco, June 24, 2008
124. Pavel Podvig, "Leo Szilard Lectureship Award Talk: Nuclear disarmament after the cold war," Session S6 (FPS/FHP Awards Session), APS April Meeting 2008, April 14, 2008, St. Louis, Missouri
125. Pavel Podvig, "After the Moscow Treaty: Sorting out the Future of US-Russian Bilateral Arms Agreements," Presentation at the Program on Arms Control, Disarmament, and International Security at the University of Illinois at Urbana-Champaign, March 28, 2008.
126. Pavel Podvig, "The State of Russian Nuclear Forces and Treaties," Presentation at the panel "Russia and the West: Perspectives on Foreign Policy" (with Carol Leff, David Satter, and Colin Flint), "Russia at the Crossroads", 2008 Current Affairs Forum, University of Illinois at Urbana-Champaign, March 27, 2008.
127. Pavel Podvig, "Did Star Wars Help End the Cold War? Evidence from Newly Discovered Soviet Documents", Presentation at the Peace Studies Program, Cornell University, March 13, 2008.
128. Pavel Podvig, "From Dmitri Ustinov to Dmitri Medvedev: Changes and continuity in the Russian military industry", Presentation at the 32nd Annual Stanford/Berkeley Conference on Russian, East European and Eurasian Studies. Stanford University, March 7, 2008
129. Pavel Podvig, "The Russian nuclear forces by 2025: possible options," Institute de Relations Internationales et Strategiques (Institute for International and Strategic Studies) and Délégation aux Affaires stratégiques, Ministère de la Défense (Delegation for Strategic Affairs, Ministry of Defense), Breakfast seminar series, Paris, France, February 8, 2008
130. "The Sputnik Legacy", CREEES Roundtable, 13 November 2007, Stanford University (with David Holloway, J. David Powell, and Donald Kennedy)
131. "Front end of nuclear cycle", Panel of the workshop "The Security Implications of Increased Global Reliance on Nuclear Power", CISAC, Stanford University, September 19-21, 2007
132. "Consolidation of Fissile Materials in the Russian Nuclear Complex", International Panel on Fissile Materials, London, 11-13 October 2007
133. "Missile Defense Issues in U.S.-Russian Relations", Nuclear Proliferation: History and Current Problems Conference, Florence, Italy, 5 October 2007

134. "Missile Defense in Europe from Russian Perspective", IALANA Meeting, Florence, Italy, 3 October 2007
135. "Did 'Star Wars' Win the Cold War? Evidence from Newly Discovered Soviet Documents", CISSM Research Seminar, University of Maryland, 13 September 2007
136. "The Window of Vulnerability that Wasn't. New Data on Soviet Strategic Capabilities", CISAC Science, Technology and Security Seminar, Stanford, April 24, 2007
137. "Did 'Star Wars' Win the Cold War? Evidence from Newly Discovered Soviet Documents", CISAC Research Seminar on International Security & Social Science, Stanford, April 19, 2007
138. "The Global Prompt Strike Plan: Russia's Perspective", Program on Science and Global Security, Princeton University, 23 March 2007.
139. "The Global Prompt Strike Plan: Russia's Perspective", Committee on Conventional Prompt Strike Capability, National Academy of Science, Washington, DC, 22 March 2007.
140. "Russia and Non-proliferation", Managing Global Insecurity project, Stanford University, 16-17 March 2007.
141. "Putin's Russia: Assertiveness and Insecurity", CISAC Directors' Seminar, Stanford University, February 21, 2007 (with David Holloway and Gail Lapidus)
142. "Russia and the Global Strike Plan", PONARS Policy Conference, CSIS, Washington, DC, 8 December 2006
143. "Soviet Missile Defense Programs in the 1980s", Physics colloquium, California Polytechnic State University, San Luis Obispo, 9 November 2006.
144. "The Proposed D-5 Trident Conversion and the impact on Russia's Early Warning System", Center for Science, Technology and Security Policy, AAAS Congressional Presentation Series, 2105 Rayburn House Office Building Washington, DC, 6 October 2006
145. "The Global Strike Plan and the Russian Early-Warning System," Center for Media and Security, Washington, DC, 6 October 2006
146. "Did Star Wars Win the Cold War? New Evidence on Strategic Competition in the 1980s", Program on Science and Global Security, Princeton University, September 5, 2006
147. "The Current Status of the Russian Nuclear Forces", Guest lecture, Seminar on Russian Foreign Policy, Naval Postgraduate School, Monterey, CA, June 1, 2006
148. "Soviet Response to the SDI Program," Presentation at the CISAC Science Fellows Meeting, CISAC, Stanford, April 18, 2006
149. "Russian Nuclear Forces Adjust to New Realities", School of International Relations and Public Affairs, Fudan University, May 15-16, 2006
150. "Russia's Record on Nuclear Security", Presentation at the Aspen Institute Meeting "Russia: Prospects for a Common Transatlantic Agenda", Wilton Park, U.K. April 7-9, 2006
151. Address to the Annual Science & Human Rights Program Reception honoring Dr. Igor Sutyagin, AAAS Annual Meeting, St. Louis, February 18, 2006.
152. "Spymania in Russia", Institute of Slavic, East European and Eurasian Studies, University of California, Berkeley, February 8, 2006.
153. "The Dangers of Accidental Ballistic Missile Launch", Science, Technology and Society Program, MIT, November 15, 2005
154. "Spent Fuel Storage in Russia: Practical Considerations", Managing the Atom Project, Harvard University, November 14, 2005

155. "Spent Fuel Storage in Russia: Practical Considerations", Program on Science and Global Security, Princeton University, November 11, 2005
156. "The Dangers of Accidental Ballistic Missile Launch", Center for International and Security Studies at Maryland, University of Maryland, November 10, 2005
157. "The KGB, Secrecy & Spymania vs Science in Today's Russia", Center for Russian, East European and Eurasian Studies, Stanford University, November 1, 2005.
158. "The Dangers of Accidental Ballistic Missile Launch", Science, Technology and Security Seminar, CISAC, Stanford University, October 25, 2005
159. "Space Mines in Anti-Satellite Role", Science, Technology and Security Seminar, CISAC, Stanford University, May 10, 2005
160. "North Korea and Its Nuclear Program", in Talk with America, Voice of America, Russian Service (with Georgiy Kunadze, former Russian Ambassador in South Korea), April 11, 2005
161. "Challenges to the Nuclear Nonproliferation Regime", Master of International Relations at San Francisco State University and United Nations Association of San Francisco, Seminar on the Report of the High Level Panel on Threats and Challenges, San Francisco State University, March 17, 2005
162. "Russian Strategic Forces in the Next Decade", Guest lecture, Seminar on Russian Foreign Policy, Naval Postgraduate School, Monterey, CA, March 9, 2005
163. "Reducing the Risk of Accidental Launch: Time for a New Approach?", PONARS Policy Meeting, Washington, DC, February 4, 2005
164. "The Russian Military Space Program", Security for a New Century Seminar, U.S. Congress, February 3, 2005
165. "Russia and Militarization of Space", Presentation at the Stimson Center, Washington, DC, February 2nd, 2005
166. "The Russian Military Space Program", Science and Global Security Program, Princeton University, February 1, 2005
167. "Russia and Weaponization of Space", Presentation at the CISSM/ISKRAN Workshop on Outer Space and International Security, University of Maryland, College Park, MD, January 28, 2005
168. "Reducing the Risk of Accidental Launch: Time for a New Approach?", Science, Technology and Security Seminar, CISAC, Stanford University, January 11, 2005
169. "The Russian Military Space Program", Science, Technology and Security Seminar, CISAC, Stanford University, November 30, 2004
170. "Russian Policy on Missile Defense after the ABM Treaty", 4th INESAP Conference of the Project "Moving Beyond Missile Defense", Hiroshima, Japan, October 8-11, 2004
171. "Missile Defense in the Soviet Union and Russia", Program on Science and Global Security Seminar, Princeton University, July 8, 2004
172. "Russia's Security Policy", Ditchley Foundation Seminar, Ditchley, U.K., April 24-25, 2004
173. "Weaponization of Space", Lecture, "Science, Technology and Public Policy" Class, Princeton University, March 8, 2004
174. "Tracking Objects in Space", AAAS Seminar, Cambridge MA, December 5, 2003
175. "Russian Military Space Program: An Overview", Presentation the Security Studies Program, MIT, Cambridge, MA, October 30, 2003

176. "Russian Military Space Program: An Overview", Presentation at CISSM/ISKRAN Workshop on Outer Space and International Security, Washington, DC, September 29, 2003
177. "Military Roles of Small Satellites", Presentation at the FAS Advisory Panel on Weaponization of Space, April 17, 2003
178. "Security and Academic Freedom", Panel at the American Museum of Natural History, April 2, 2003.
179. "Weapons in Space: The Next Arms Control Challenge", 1<sup>st</sup> International Professional Meeting of Independent Technical Security Analysts, Chicago, July 23–24, 2002
180. "Russia and Missile Defense", Keynote address, Luncheon for senior participants, BMD International Conference and Exhibit, AIAA, Dallas, June 3–6, 2002
181. "The End of Strategic Arms Control?", Presentation at PONARS Policy Meeting, CSIS, Washington, D.C., United States, 25 January, 2002.
182. "Ending the Cold War", Presentation at the Institute of Policy Studies seminar "Weapons of Mass Destruction: Cold War Legacies in the Post-911 World," New York University, New York, United States, 27 November 2001.
183. "Possible Approaches to Limiting Tactical Nuclear Weapons", Presentation at the UNIDIR seminar "Time to Control Tactical Nuclear Weapons," New York, United States, 24 September 2001.
184. "Revolution in Military Affairs: Challenges to Russia's Security", Presentation at the VTT Energy STYX Seminar, Helsinki, Finland, 4 September 2001.
185. "The Russian Early-Warning System: If It's Broken—Should We Fix It?", Presentation at the Center for Global Security Research, Lawrence Livermore National Laboratory, July 3, 2001
186. "Russian Early-Warning System," Presentation at a seminar at the Center for International Security and Cooperation, Stanford University, July 2, 2001
187. "Status of the Russian Early-Warning System," Presentation at the Center for Nonproliferation Studies, Monterey Institute of International Studies, June 28, 2001
188. "Russian Strategic Forces in 2001", Presentation at the Congressional Seminar Series organized by the Russian-American Nuclear Security Advisory Council, Washington, D.C., June 8, 2001
189. "Russia and the ABM Treaty", Invited speaker at the Russian Program, Princeton University, U.S., March 29, 2001.
190. "U.S. Missile defense policy from Russian perspective", Presentation at the seminar "NMD and TMD after the US elections" held by the Institute of Peace Research and Security Policy at the University of Hamburg, Berlin, Germany, February 13 -15, 2001.
191. "Recent developments in the Russian missile defense policy", Presentation at PONARS Policy Meeting, Washington, D.C., U. S., December 8, 2000.
192. "What is behind Russia's boost-phase defense offer?", Presentation at a seminar at the Center for International security and Cooperation (CISAC), Stanford University, U.S., October 16-18, 2000.
193. "Framework for a START III–ABM Treaty Compromise" Presentation on a panel at Sandia National Laboratories Tenth International Arms Control Conference, Albuquerque, U.S., April 14–16, 2000.



194. "Russian Policy on the ABM Treaty" Testimony before the Standing Committee on Foreign Affairs and International Trade, House of Commons, Ottawa, Canada, 2 March 2000
195. "Russian Policy on the ABM Treaty" Testimony before the Standing Committee on National Defence and Veterans Affairs, House of Commons, Ottawa, Canada, 29 February 2000
196. "Missile Defense and the Future of Arms Control" Presentation at the VTT Energy STYX Seminar on Missile Defense and European Security, Helsinki, Finland, 2 September 1999.
197. "Russian Strategic Forces" Presentation at the Conference "The Future of Russian-US Strategic Arms Reductions: START III and Beyond", Cambridge, U.S.A., February 2-6, 1998)