

Pavel Podvig

Russian Nuclear Forces Project

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Professional experience

Russian Nuclear Forces Project

Director and Principal Investigator

Since 1995

The project maintains a web site, 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

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

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

International Panel on Fissile Materials

since 2009

Program on New Approaches to Russian Security (PONARS)

since 1999

Boards and Committees

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

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

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

Recent research papers and articles

Full list is at <http://russianforces.org/podvig/>

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.

Recent presentations, panels, and testimonies

Full list is at <http://russianforces.org/podvig/>

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 Viinainen, 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