

## 2. Course outline and schedule

### 2.1 Course outline

	Course Outline	Academic hours			
		Lectur es	Semina rs	Homewo rk	Academ ic hours per topic
	<b>Topic 1. Nonproliferation at the cross-road of regional and global politics</b>	<b>2</b>	<b>2</b>	<b>6</b>	<b>10</b>
Oct. 29 17.30	Seminar 1.1. Preparing for the Online Seminar on U.S.-Russian Dialogue on the NPT Review Process – Mr. Adlan Margojev		2	4	6
Nov. 5 17.30	Lecture 1.1. Introduction to the course: what regions of the globe are most vulnerable to proliferation and why – Dr. Vladimir A. Orlov	2		2	4
	<b>Topic 2. WMD nonproliferation in the Middle East</b>	<b>4</b>	<b>2</b>	<b>6</b>	<b>12</b>
Nov. 5 19.00	Lecture 2.1. WMD Proliferation in the Middle East – Dr. Vladimir A. Orlov	2		2	4
	<b>Topic 3. Great powers' responses to regional non-proliferation challenges</b>		<b>4</b>	<b>8</b>	<b>12</b>
Nov.19 19.00	Online Seminar on U.S.-Russian Dialogue on the NPT Review Process «Developing a Roadmap for Russia-US Cooperation on the NPT Review Process by 2020» Part 1 [jointly with MIIS at Monterey via telebridge] – Dr. Vladimir A. Orlov and Prof. William Potter, Mr. Adlan Margojev and Ms. Sarah Bidgood, with Mr. Albert Zulkharneev and Ms. Yulia Sych		2	4	6
Nov.19 21.30	Online Seminar on U.S.-Russian Dialogue on the NPT Review Process «Developing a		2	4	6

	Roadmap for Russia-US Cooperation on the NPT Review Process by 2020» Part 1 [jointly with MIIS at Monterey via telebridge] – Dr. Vladimir A. Orlov and Prof. William Potter, Mr. Adlan Margoev and Ms. Sarah Bidgood, with Mr. Albert Zulkharneev and Ms. Yulia Sych				
	<b>Topic 2. WMD nonproliferation in the Middle East (Cont.)</b>				
Nov.20 14.30	Lecture 2.2. Iran’s Nuclear Program and JCPOA: a case study of addressing proliferation through diplomacy – Dr. Vladimir A. Orlov	2		2	4
Nov.20 16.00	Seminar 2.1. Zone Free of Nuclear and other WMD in the Middle East: History of the Issue and Prospects of Establishment – Dr. Vladimir A. Orlov		2	2	4
	<b>Topic 4. WMD nonproliferation in the South Asia</b>	<b>4</b>	<b>2</b>	<b>6</b>	<b>12</b>
Nov. 27 14.30	Lecture 4.1. Indian nuclear program: a case study of weaponization of civilian infrastructure – Dr. Ildar Akhtamzyan	2		2	4
Nov. 27 16.00	Lecture 4.2. Pakistani nuclear program: catching-up with the neighbor – Dr. Ildar Akhtamzyan	2		2	4
TBA	Seminar 4.1. Nuclear Weapons in South Asia: strategic balances and political dilemmas - Amb. Vyacheslav Trubnikov		2	2	4
	<b>Topic 5. WMD nonproliferation in East Asia</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>8</b>
Dec.3 17.30	Lecture 5.1. Nonproliferation and Disarmament issues in the East Asia region (Japan, South Korea, Taiwan) – Dr. Alexander Vorontsov	2		2	4

Dec. 3 19.00 (TBC)	Seminar 5.1. Round Table. WMD program of the DPRK: disarmament and nonproliferation aspects, scenarios for denuclearization – Mr. Oleg V. Rozhkov		2	2	4
	<b>Topic 6. Regional instruments strengthening nonproliferation</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>8</b>
Dec.11 14.30	Lecture 6.1. Nuclear-weapon- free-zones. – Dr. Ildar Alhtamzyan	2		2	4
Dec.11 16.00	Seminar 6.1. Nuclear-weapon- free-zones: current challenges and prospects – Dr. Ildar Alhtamzyan		2	2	4
Dec.17 17.30	Oral Exam		2	4	6
	<b>Total:</b>	<b>14</b>	<b>16</b>	<b>38</b>	<b>68</b>

## 2.2 Course schedule

<b>TOPIC 1. NON-PROLIFERATION AT THE CROSS-ROAD OF REGIONAL AND GLOBAL POLITICS</b>	
<b>October 29, Tuesday. 17.30 – 18.50</b>	
Seminar 1.1. Preparing for the Online Seminar on U.S.-Russian Dialogue on the NPT Review Process	Mr. Adlan Margojev
Summary: Mock presentation of the Roadmap for Russia-US Cooperation on the NPT Review Process by 2020.	
<b>November 5, Tuesday. 17.30 – 18.50</b>	
Lecture 1.1. Introduction to the course: what regions of the globe are most vulnerable to proliferation and why	Dr. Vladimir A. Orlov
Summary: The subject, goals and objectives of the course. Historic cases of WMD considerations and decisions: Europe, Middle East, Latin America, Far East, South Asia, Africa. Solutions to the non-proliferation risks of the Soviet Union disintegration. Non-proliferation at the end of the Cold War: globalization of the NPT, regional opportunities and challenges to WMD proliferation. Classification of proliferators and phenomenon of threshold states. Proliferation vs. non-proliferation calculus and regional conflicts.	
<u>Essential Readings</u>	
<ul style="list-style-type: none"> <li>The Nuclear Tipping Point: Prospects for a World of Many Nuclear Weapon States in Kurt Campbell, Robert Einhorn, and Mitchell Reiss (eds.) <a href="#">The</a></li> </ul>	

[Nuclear Tipping Point: Why States Reconsider Their Nuclear Choices.](#)  
Brookings Institution Press, 2004. pp.3-17

General Readings

- Vladimir Orlov, Roland Timerbaev Russia's Neighbors in the CIS in [“Nuclear Nonproliferation in U.S.-Russian Relations: Challenges and Opportunities”](#). PIR Library Series, 2002. Pp. 22-33.
- Agreement between the Republic of Argentina and the Federative Republic of Brazil for the exclusively peaceful use of nuclear energy, 1991
- F. W. de Klerk, President of South Africa. Extract of a speech announcing developments relating to South Africa’s nuclear capability, the normalization of international relations and accession to the Treaty on the Non-Proliferation of Nuclear Weapons, 1993
- David Albright. [South Africa and the Affordable Bomb. Bulletin of the Atomic Scientists](#). Issue 4, 1994.
- John R. Redick , Julio C. Carasales & Paulo S. Wrobel. [Nuclear rapprochement: Argentina, Brazil, and the nonproliferation regime](#), The Washington Quarterly, Winter 1995.
- Jurg Stussi-Lauterberg. [Historical outline on the question of Swiss nuclear armament](#). December 31, 1995.
- Ядерное нераспространение: Краткая энциклопедия. М.: Российская политическая энциклопедия (РОССПЭН); ПИР-Центр, 2009

**TOPIC 2. WMD NONPROLIFERATION IN THE MIDDLE EAST**

**November 5, Tuesday. 19.00 – 20.20**

Lecture 2.1. WMD Proliferation in the Middle East

Dr. Vladimir A. Orlov

Summary: History and contemporary review of the nuclear proliferation in the Middle East. Israel as the only state in the region with nuclear weapons. Cases of Egypt; Israel; Iraq; Libya; Syria; Turkey. Motivations for regional state actors for development of their WMD programs. Role of non-state actors in the region with regard to WMD proliferation and terrorism.

Essential Readings

- [Ten Steps Toward a Weapons of Mass Destruction-Free Zone in the Middle East](#). PIR Center, 2013.

General readings

- Robert J. Einhorn. Egypt: Frustrated but Still on a Non-Nuclear Course in [The Nuclear Tipping Point: Why States Reconsider Their Nuclear Choices](#). Brookings Institution Press, 2004. pp.43-83.
- Ellen Laipson. Syria: Can the Myth Be Maintained without Nukes? in [The Nuclear Tipping Point: Why States Reconsider Their Nuclear Choices](#). Brookings Institution Press, 2004. pp.83-111.
- Leon Fuerth. Turkey: Nuclear Choices amongst Dangerous Neighbours in [The Nuclear Tipping Point: Why States Reconsider Their Nuclear Choices](#). Brookings Institution Press, 2004. pp.145-175.

<ul style="list-style-type: none"> <li>• Ближний и Средний Восток. <a href="#">Ядерное нераспространение</a>. Под общей редакцией Орлова В.А. М., ПИР-Центр, 2002 (2-е изд., переработанное и расширенное).</li> <li>• Военная ядерная программа Израиля. <a href="#">Ядерное нераспространение: Краткая энциклопедия</a>. ПИР-Центр.</li> <li>• Военная ядерная программа Ирака. <a href="#">Ядерное нераспространение: Краткая энциклопедия</a>. ПИР-Центр.</li> <li>• Военная ядерная программа Ливии. <a href="#">Ядерное нераспространение: Краткая энциклопедия</a>. ПИР-Центр.</li> <li>• Военная ядерная программа Сирии. <a href="#">Ядерное нераспространение: Краткая энциклопедия</a>. ПИР-Центр.</li> </ul>	
<p><u>Web resources</u></p>	
<ul style="list-style-type: none"> <li>• Country Profiles. Database. <a href="#">NTI.org</a></li> </ul>	
<p><b>TOPIC 3. GREAT POWERS' RESPONSES TO REGIONAL NON-PROLIFERATION CHALLENGES</b></p>	
<p><b>November 19, Tuesday. 19.00 – 20.20</b></p>	
<p>Online Seminar on U.S.-Russian Dialogue on the NPT Review Process «Developing a Roadmap for Russia-US Cooperation on the NPT Review Process by 2020» Part 1 [jointly with MIIS at Monterey via telebridge]</p>	<p>Dr. Vladimir A. Orlov and Prof. William Potter, Mr. Adlan Margoev and Ms. Sarah Bidgood, with Mr. Albert Zulkharneev and Ms. Yulia Sych</p>
<p>Summary: Presentation of the Roadmap for Russia-US Cooperation. Moderated discussion.</p>	
<p><b>November 19, Tuesday. 21.30 – 22.50</b></p>	
<p>Online Seminar on U.S.-Russian Dialogue on the NPT Review Process «Developing a Roadmap for Russia-US Cooperation on the NPT Review Process by 2020» Part 2 [jointly with MIIS at Monterey via telebridge]</p>	<p>Dr. Vladimir A. Orlov and Prof. William Potter, Mr. Adlan Margoev and Ms. Sarah Bidgood, with Mr. Albert Zulkharneev and Ms. Yulia Sych</p>
<p>Summary: Presentation of the Roadmap for Russia-US Cooperation. Moderated discussion.</p>	
<p><b>TOPIC 2. WMD NONPROLIFERATION IN THE MIDDLE EAST (CONT.)</b></p>	
<p><b>November 20, Wednesday. 14.30 – 15.50</b></p>	
<p>Lecture 2.2. Iran's Nuclear Program and JCPOA: a case study of addressing proliferation through diplomacy.</p>	<p>Dr. Vladimir A. Orlov</p>
<p>Summary: The roots of Iranian nuclear program from the Shah to the Iran-Iraq war. Peaceful nuclear developments in Iran. Clandestine nuclear program. Iranian dossier at the IAEA and the UN Security Council. Informal discussions and negotiations over the Iranian nuclear issue (2012-2015). Joint Comprehensive Plan of Action (2015). JCPOA sustainability.</p>	
<p><u>Essential Readings</u></p>	

- [Joint Comprehensive Plan of Action, agreed by Iran and P5+1, Vienna](#), July 14, 2015
- Vladimir Orlov. [A Labyrinth with No Walls](#). Russia in Global Affairs. March 25, 2012.
- Andrey Baklitskiy, Adlan Margoev. [Saving the JCPOA: the EU has to work with Russia and China](#). European Leadership Network. April 23, 2018.

General Readings

- David E. Sanger, Michael R. Gordon. [An Iran Nuclear Deal Built on Coffee, All-Nighters and Compromise](#). The New York Times. April 3, 2015.
- Andrey Baklitskiy, Richard Weitz. [The Iranian Deal: Opportunities and Obstacles for Russian-US Cooperation](#). Valdai Paper #46. April 28, 2016.
- Alexey Arbatov, Vladimir Sazhin. [The Nuclear Deal with Iran: The Final Step or a New Stage?](#) Carnegie Moscow Center. April 20, 2016.

Web resources

- [Iranian Nuclear Program: Russia's Interests](#). PIR Center.
- [Iranian Nuclear Problem](#). Carnegie Moscow Center.

**November 20, Wednesday. 16.00 – 17.20**

Seminar 2.1. Zone Free of Nuclear and other WMD in the Middle East: History of the Issue and Prospects of Establishment.

Dr. Vladimir A. Orlov

Summary: Early proposals (1974) to create a Nuclear-Weapon-Free Zone in the Middle East (Iran, Egypt). Working group on Arms Control and Regional Security in the Middle East (1992-1995). 1995 NPT Review and Extension Conference, Middle East resolution. 2010 NPT Review Conference and the planned 2012 Conference of the WMD-Free Zone in the Middle East. Collapse of the talks. 2015 NPT Review Conference: Middle East Zone issue as the main drama of the conference leading to its failure. Prospects for establishment of the zone.

Essential Readings

- [Establishment of a nuclear-weapon-free zone in the region of the Middle East. General Assembly Resolution 33/64](#). December 14, 1978.
- [Resolution on the Middle East](#). The Conference of the Parties to the Treaty on the Non-Proliferation of Nuclear Weapons. 1995.
- [Ten Steps Toward a Weapons of Mass Destruction-Free Zone in the Middle East](#). PIR Center, 2013.
- Vladimir Orlov. [A Nuclear Weapon-Free Middle East: Looking for Solutions](#). International Affairs, 2011.

General Readings

- [Establishing Regional Conditions Conducive to a Middle East Free of Weapons of Mass Destruction and Delivery Systems. Working paper submitted by the United States of America](#). Preparatory Committee for the

2020 Review Conference of the Parties to the Treaty on the Non-Proliferation of Nuclear Weapons. Second session. April 19, 2018.

- Владимир Орлов. [Зона, свободная от ОМУ, на Ближнем Востоке: не откладывать развязок](#). Международная Жизнь. № 6, 2011, с. 6-21.
- Ivan Trushkin. [WMD-Free Zone in the Middle East: From Ideas to Reality](#). Security Index Journal. Issue 4, 2011.
- Alexander Glaser, Zia Mian, Seyed Hossein Mousavian, and Frank von Hippel. [Building on the Iran Deal: Steps Toward a Middle Eastern Nuclear-Weapon-Free Zone](#). Arms Control Today. December 2015.
- Chen Kane. Planning Ahead: [A Blueprint to Negotiate and Implement a Weapon-of-Mass-Destruction-Free Zone in the Middle East](#). James Martin Center for Nonproliferation Studies. 2015
- [Effective and Verifiable Measures Which Would Facilitate the Establishment of a Nuclear-weapon-free Zone in the Middle East](#). UN Department for Disarmament Affairs. New York, 1991.

#### Web resources

- [Middle East WMDFZ](#). EU Non-Proliferation Consortium.
- [2012 Conference on the Middle East Zone Free of Weapons of Mass Destruction - Searching for Solutions](#) 04.10.2012. PIR Center

### **TOPIC 4. WMD NONPROLIFERATION IN THE SOUTH ASIA**

**November 27, Wednesday. 14.30 – 15.50**

Lecture 4.1. Indian nuclear program: a case study of weaponization of civilian infrastructure.

Dr. Ildar Akhtamzyan

Summary: Political, security and economic backgrounds for the military nuclear program of India. The course of the program from the beginning up to 1998. Indian efforts to build the nuclear arsenal tailor the nuclear doctrine. Way off the isolation: U.S.-Indian deal, IAEA agreement, attempts to get in NSG. The current role and future of the nuclear arsenal and doctrine of India. Nuclear security and safety in India.

#### Essential Readings

- [Deterrence Instability & Nuclear Weapons in South Asia](#). Edited by Michael Krepon, Joshua T. White, Julia Thompson, Shane Mason. - Washington: Stimpson Center, 2015.
- [Prospects of Engaging India and Pakistan in Nuclear Arms Limitations](#). Edited by Alexei Arbatov, Vladimir Dvorkin and Sergey Oznobishchev. – Moscow, IMEMO RAN, 2012.
- Topychkanov Petr. [Experience of India and Pakistan Creating Nuclear Weapons,](#) in V.Kantor (ed.) [The Limits of Secure Nuclear Tolerance](#) (Moscow: International Luxembourg Forum on Preventing Nuclear Catastrophe, 2014), pp. 112-122.

#### General Readings

- Ashley J. Tellis, *India's Emerging Nuclear Posture: Between Recessed Deterrence and Ready Arsenal* (Santa Monica, CA: RAND Corp., 2001)
- Rajagopalan R. *Second Strike: Arguments about Nuclear War in South Asia*. New Delhi: Penguin Books, 2005
- Talbott, S. *Engaging India: Diplomacy, Democracy, and the Bomb*. New Delhi: Penguin Books, 2004
- Zafar Iqbal Cheema, *Indian Nuclear Deterrence: Its Evolution, Development, and Implication for South Asian Security* (Karachi: Oxford University Press, 2010)

Web resources

- Kristensen Hans M., Norris Robert S. [Indian nuclear forces](#), 2017.
- [NTI: India](#), 2017.
- Perkovich George, Dalton Toby. [India's Nuclear Options and Escalation Dominance](#). 2016.
- Perkovich George. [Preventing Nuclear War in South Asia: Unprecedented Challenges, Unprecedented Solutions](#). 2013.
- Rehman Iskander. [Murky Waters: Naval Nuclear Dynamics in the Indian Ocean](#). 2015.

**November 27, Wednesday. 16.00 – 17.20**

Lecture 4.2. Pakistani nuclear program: catching-up with the neighbor.

Dr. Ildar Akhtamzyan

Summary: Political, security and economic backgrounds for the military nuclear program of Pakistan. The course of the program from the beginning up to 1998. Pakistan efforts to build the nuclear arsenal tailor the nuclear doctrine. AQ Khan network: Pakistan's episode or policy? Attempts to end with the isolation. The current role and future of the nuclear arsenal and doctrine of Pakistan. Nuclear security and safety in Pakistan.

Essential Readings

- [Deterrence Instability & Nuclear Weapons in South Asia](#). Edited by Michael Krepon, Joshua T. White, Julia Thompson, Shane Mason. - Washington: Stimpson Center, 2015.
- [Prospects of Engaging India and Pakistan in Nuclear Arms Limitations](#). Edited by Alexei Arbatov, Vladimir Dvorkin and Sergey Oznobishchev. – Moscow, IMEMO RAN, 2012.
- Topychkanov Petr. [Experience of India and Pakistan Creating Nuclear Weapons,' in V.Kantor \(ed.\) The Limits of Secure Nuclear Tolerance](#) (Moscow: International Luxembourg Forum on Preventing Nuclear Catastrophe, 2014), pp. 112-122.

General Readings

- Khan, F.H. "Eating Grass: the Making of the Pakistani Bomb." Stanford: Stanford University Press, 2012
- Justin V. Hastings: [The Geography of Nuclear Proliferation Networks](#), *The Nonproliferation Review*. No. 3, November 2012.



- Naeem Salik, *The Genesis of South Asian Nuclear Deterrence: Pakistan's Perspective* (Karachi: Oxford University Press, 2009)
- *Nuclear Black Markets: Pakistan, A.Q. Khan and the Rise of Proliferation Networks. A Net Assessment.* Ed. by M. Fitzpatrick. London: The International Institute for Strategic Studies, 2007
- Rajagopalan R. *Second Strike: Arguments about Nuclear War in South Asia.* New Delhi: Penguin Books, 2005
- Zafar Iqbal Cheema, *Indian Nuclear Deterrence: Its Evolution, Development, and Implication for South Asian Security* (Karachi: Oxford University Press, 2010)

Web resources

- Kristensen Hans M., Norris Robert S. [Pakistani nuclear forces](#), 2016.
- Michael Krepon. [A Normal Nuclear Pakistan](#). 2015.
- [NTI: Pakistan](#). 2017.

**TBA**

Seminar 4.1. Nuclear Weapons in South Asia: strategic balances and political dilemmas	Gen. Vyacheslav Trubnikov
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Summary: Bilateral nuclear balances between Pakistan and India, India and China. Regional nuclear triangle China-India-Pakistan. Connections between South Asian nuclear balances and neighboring regions. South Asian nuclear balances and global security.

Essential Readings

- [Interview with Vyacheslav Trubnikov, member of the directorate of the Primakov Institute of World Economy and International Relations](#) // Moscow Defense Brief. - 2016. - No.1(56)
- Trubnikov Vyacheslav. [The Role of Nuclear Status in India's and Pakistan's Foreign and Domestic Policy. Russia's Perspective](#) // Prospects of Engaging India and Pakistan in Nuclear Arms Limitations. Edited by Alexei Arbatov, Vladimir Dvorkin and Sergey Oznobishchev. – Moscow, IMEMO RAN, 2012, pp. 11-18

General Readings

- [Evolution of India's nuclear policy](#). Government of India.
- [Draft Report of National Security Advisory Board on Indian Nuclear Doctrine](#). Ministry of Foreign Affairs Government of India, August 17, 1999.
- Paul K. Kerr., Mary Beth Nikitin. [Pakistan's Nuclear Weapons](#). Congressional Research Service, August 1, 2016.
- Hall Ian. [The Requirements of Nuclear Stability in South Asia](#). *The Nonproliferation review*, Vol 21, 2014, pp. 355-371

<u>Web resources</u>	
<ul style="list-style-type: none"> <li>• <a href="#">Special Report: The Nuclear Crisis – India &amp; Pakistan</a>. AtomicArchive.com</li> </ul>	
<b>TOPIC 5. WMD NONPROLIFERATION IN EAST ASIA</b>	
<b>December 3, Tuesday. 17.30 – 18.50</b>	
Lecture 5.1. Nonproliferation and Disarmament issues in the East Asia region	Dr. Alexander V. Vorontsov
Summary: Concern dealing with the possibility of nuclearization chain reaction in the East Asia region (Japan, South Korea, Taiwan)	
<u>Essential Readings</u>	
<ul style="list-style-type: none"> <li>• Hayes Peter, Chung-in Moon. <a href="#">Should South Korea Go Nuclear?</a> EAF Policy Debates, No.7, 2014.</li> <li>• Ralph Cossa. Brad Glosserman. <a href="#">Untying North Korean 'nots'</a>; PacNet #17, February 14, 2017.</li> </ul>	
<u>General Readings</u>	
<ul style="list-style-type: none"> <li>• Evgeny Buzhinskiy reports from Moscow: (UN)REALISTIC THREATS? DPRK'S AND IRAN'S MISSILE PROGRAMS. Russia Confidential, Issue № 3 (231), vol.15. March 2016.</li> </ul>	
<b>December 3, Tuesday. 19.00 – 20.20 (TBC)</b>	
Seminar 5.1. Round Table. WMD program of the DPRK: disarmament and nonproliferation aspects, scenarios for denuclearization	Mr. Oleg V. Rozhkov
Summary: DPRK Nuclear Missile program consistent development as one of the most acute challenge to global nonproliferation regime	
<u>Essential Readings</u>	
<ul style="list-style-type: none"> <li>• Joint Declaration of South and North Korea on the Denuclearization of the Korean Peninsula, 1992.</li> <li>• <a href="#">Agreed Framework Between the United States of America and The Democratic People's Republic of Korea</a>. Geneva, October 21, 1994.</li> <li>• Korean Central News Agency report on the DPRK's withdrawal from the NPT, January 22, 2003.</li> </ul>	
<u>General Readings</u>	
<ul style="list-style-type: none"> <li>• Squassoni Sharon. DPRK Nuclear Energy in the Context of a Proposed Peace Settlement, 2013.</li> <li>• Westmyer Timothy. Asian Powers Wrestle Over Nuclear Security in Asia, 2014.</li> <li>• Sigal V. Leon. A Nuclear North Korea vs. a Strategically Patient U.S.: Who Wins? 2014.</li> </ul>	

<b>TOPIC 6. REGIONAL INSTRUMENTS STRENGTHENING NONPROLIFERATION</b>	
<b>December 11, Wednesday. 14.30 – 15.50</b>	
Lecture 6.1. Nuclear-weapon-free-zones.	Dr. Ildar Alhtamzyan
<b>December 14, Wednesday. 16.00 – 17.20</b>	
Seminar 6.1. Nuclear-weapon-free-zones: current challenges and prospects	Dr. Ildar Alhtamzyan
Summary: Comparative analysis of NWFZ treaties	
<b>December 17, Tuesday. 17.30 – 18.50</b>	
Oral Exam	Dr. Vladimir A. Orlov
<i>Examples of questions</i>	
<ol style="list-style-type: none"> <li>1. What regions of the globe are most vulnerable to proliferation and why?</li> <li>2. Challenges of WMD Proliferation in the Middle East.</li> <li>3. Israel’s Nuclear-Weapon Program.</li> <li>4. Iran’s Nuclear Program: key milestones in its development and challenges to nonproliferation.</li> <li>5. Iran’s Nuclear Program and challenges to nonproliferation – in search of diplomatic solution. Key milestones.</li> <li>6. Joint Comprehensive Plan of Action (JCPOA).</li> <li>7. Zone Free of Nuclear and other WMD in the Middle East: History of the Issue and Prospects of Establishment.</li> <li>8. History of WMD programs in Iraq and lessons for the nonproliferation regime.</li> <li>9. Libya and nuclear proliferation: history and lessons learned.</li> <li>10. Indian nuclear-weapon program: key developments and challenges to nonproliferation.</li> <li>11. Pakistan’s nuclear weapon program: key developments and challenges to nonproliferation.</li> <li>12. Russia-US Cooperation on the NPT Review Process: history and prospects for 2020 Review Conference.</li> <li>13. History of DPRK military nuclear program.</li> <li>14. States that renounced they nuclear weapons or nuclear weapons on their territories: history and their motivations.</li> </ol>	

15. Military nuclear program of the DPRK: disarmament and nonproliferation aspects.
16. Prospects for a nuclear-weapons free Korean Peninsula.
17. Threshold powers of the East Asia region (Japan, South Korea, Taiwan).
18. Nuclear-weapon-free-zones: international legal basis and principles, NPT and GA resolutions, mechanisms of establishment, protocols for non-member states.
19. Antarctic Treaty.
20. Treaty for the Prohibition of Nuclear Weapons in Latin America and the Caribbean.
21. South Pacific Nuclear Free Zone Treaty.
22. Treaty on the Southeast Asia Nuclear Weapon-Free Zone.
23. African Nuclear-Weapon-Free Zone Treaty.
24. Treaty on a Nuclear-Weapon-Free Zone in Central Asia.
25. Nuclear-weapon-free-zones: current challenges and prospects.