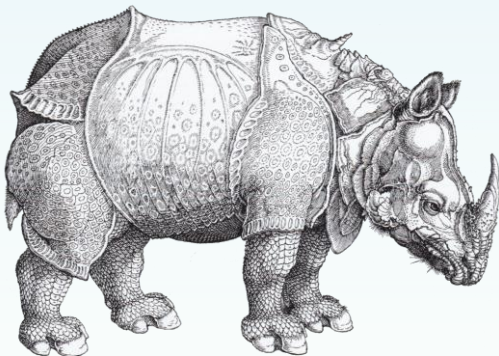


# Global Security: A View from Russia for the Youth Around the World

*Online-course on nuclear nonproliferation and arms control*

## GUIDE FOR PARTICIPANTS. Welcoming Remarks & Instructions





**Global Security:**  
**A View from Russia for the Youth Around the World**  
*Online-course on nuclear nonproliferation and arms control*

**DEAR ALL!**

**Welcome to the online-course on nuclear nonproliferation and arms control!**

This online-course was prepared by specialists and experts of PIR Center in partnership with MGIMO University and with a financial support of the Presidential Grants Foundation. It is a key part of the PIR Center project “*Global Security: A View from Russia for the Youth Around the World*”. **Despite that the online-course itself is intended for a wider audience, without distinction as to nationality, age or gender. You are all more than welcome because nuclear issues concern and should concern all humanity.**

We hope that this online-course will help you to find your own answers to the most burning questions of the international nuclear agenda. We strongly believe that the deeper understanding of all the nuclear risks and threats will help us all lay the groundwork for a safer and more stable future for the mankind.

*Have a wonderful intellectual trip to the world of nuclear nonproliferation and arms control.*

*No matter you are already the specialists in these issues or not, and no matter whether you agree with the positions, views and thoughts provided by our instructors, we are sure that you all will not remain indifferent to theory, history and current problems of nuclear nonproliferation and arms control.*



kindest regards,  
**Ms. Elena Karnaukhova**  
Deputy Director-  
Education & Training Program Director  
Executive Secretary of the online-course  
PIR Center



Global Security:  
A View from Russia for the Youth Around the World  
*Online-course on nuclear nonproliferation and arms control*

# What is PIR Center?



# Global Security: A View from Russia for the Youth Around the World

*Online-course on nuclear nonproliferation and arms control*

Russian NGO specialized in nuclear nonproliferation, arms control and some other aspects of global security (founded in 1994; since 2010 – in consultative status with ECOSOC)

4 core programs: *Nuclear Nonproliferation and Russia Program; Global and Regional Security: New Ideas for Russia; Education & Training Program; Information & Publications Program*

Conducts extensive and diverse scientific and analytical, educational and training, information and publishing activities. One of the aims is to raise a new generation of experts in nuclear nonproliferation and arms control.



**We have a rich experience, much knowledge and information to share with you! Join our PIR Alumni Community!**

Find out more:  
[www.pircenter.org](http://www.pircenter.org)



NONPROLIFERATION.  
WORLD



Global Security:  
A View from Russia for the Youth Around the World  
*Online-course on nuclear nonproliferation and arms control*

# Instructors of the Online-Course



# Global Security: A View from Russia for the Youth Around the World

*Online-course on nuclear nonproliferation and arms control*



Dr. Elena  
Chernenko



Mr. Gleb  
Efremov



Dr. Igor  
Istomin



Ms. Elena  
Karnaukhova



Dr. Mikhail  
Lysenko



Dr. Andrey  
Malov



Mr. Adlan  
Margoev



Dr. Vladimir  
Orlov



Ms. Daria  
Pakhomova



Mr. Sergey  
Semenov



Mr. Dmitry  
Stefanovich



Dr. Dmitry  
Trenin



Dr. Alexey  
Ubeev



Dr. Alexander  
Vorontsov



Global Security:  
A View from Russia for the Youth Around the World  
*Online-course on nuclear nonproliferation and arms control*

# Structure of the Online-Course & Biographies of Instructors

## INTRODUCTORY UNIT

### Lecture 1. Theories of international regimes and their application in security studies

**Part 1.** Theories of international regimes: general overview

**Part 2.** What is an international regime?

**Part 3.** What are international regimes good for?

**Part 4.** Where do regimes come from?

**Part 5.** Do mature regimes decay?

**Part 6.** What does make arms control special?



**Dr. Igor  
Istomin**

#### Instructor:

**Dr. Igor Istomin,**

Head & Associate Professor, Department of Applied International Political Analysis, MGIMO University; Member of Advisory Board, PIR Center

#### BIOGRAPHY:

Dr. Igor Istomin is an Acting Chair at the Department of Applied International Political Analysis and Lead Research Fellow at the Center for Advanced American Studies, Institute for International Studies, MGIMO University. He is also an executive editor of *Mezhdunarodnye protsessy (International Trends)*, the leading Russian academic journal on International Relations theory. He holds Ph.D. and M.A. degrees from MGIMO as well as undergraduate degree from St. Petersburg State University. Dr. Igor Istomin specializes in Russian-Western relations, US foreign policy, European security and alliance politics. He also teaches International Relations theory and methods of applied foreign policy analysis. Dr. Igor Istomin authored more than 90 academic publications in Russian and English. He contributes regularly to policy debates through commentaries for media and think tanks.



## UNIT I. NUCLEAR NONPROLIFERATION REGIME: LONG ROAD TO BE ESTABLISHED

### Lecture 1. Historical aspects of developing nuclear nonproliferation regime: before the NPT

Part 1. First attempts to establish control over nuclear energy

Part 2. From *Atom for Peace* speech to IAEA

Part 3. First ideas to ban nuclear tests

Part 4. First ideas to establish NWFZs

Part 5. From the Irish Resolution to TNCD & ENCD and the NPT

#### Instructor:

**Ms. Elena Karnaukhova,**

Deputy Director-Education & Training Program Director, Executive Secretary of the online-course, PIR Center



Ms. Elena  
Karnaukhova

#### BIOGRAPHY:

In January of 2021 joined PIR Center as an Assistant to Director on Special Projects-Education & Training Program Coordinator. Since July 2022 she has been a Deputy Director-Education & Training Program Director of PIR Center. Within the Tenth NPT Review Conference coordinated the work of PIR Center team representatives, who participated in the forum given PIR Center consultative status with ECOSOC. Was one of the editors of PIR Center Security Index Occasional Paper Series “The Tenth NPT Review Conference (2022): Chronicle of the Failure Foretold”. Also holds the positions of Executive Secretary of the *Dialogue* Club International, Executive Secretary of PIR Center International School on Global Security, Executive Secretary of PIR Center Advisory Board. Graduated from the School of World Politics of Lomonosov Moscow State University with honours degrees in International Relations with major in International Security. In 2023 finished PhD courses of the School of World Politics at Lomonosov Moscow State University.



# Global Security: A View from Russia for the Youth Around the World

*Online-course on nuclear nonproliferation and arms control*

## UNIT I. NUCLEAR NONPROLIFERATION REGIME: LONG ROAD TO BE ESTABLISHED

### Lecture 2. NPT as a cornerstone of nuclear nonproliferation regime. Three pillars of nuclear nonproliferation

Part 1. Origins of the NPT

Part 2. Nuclear nonproliferation pillar

Part 3. Peaceful uses of nuclear energy pillar

Part 4. Disarmament pillar

#### Instructor:

**Dr. Vladimir Orlov,**

Founding Director, Academic Advisor of the online-course, PIR Center; Professor, Department of Applied International Political Analysis, MGIMO University



Dr. Vladimir Orlov

#### BIOGRAPHY:

Dr. Orlov is an expert in international security and Russia's foreign and defense policy. In 1994, Dr. Orlov founded PIR Center, a private think tank dealing with international security and Russia's foreign policy issues, now a leading Russian research and publishing nongovernmental organization in this area. Dr. Orlov is currently PIR Center's Director; member of its Executive Board; and Director of the "Nuclear Nonproliferation and Russia" Program. In 1994, Dr. Orlov launched the first Russian journal on nonproliferation issues, "Yaderny Kontrol" ("Nuclear Control"). In 2007, the journal was developed into "Security Index" ("Indeks Bezopasnosti"), with both Russian and global (English-language) editions. Currently, "Security Index" continues as Occasional Paper Series, with Dr. Orlov as its Editor-in-Chief. Since 1995, Dr. Orlov took part in the work of all NPT Review Conferences, since 2010 – as a member of the Russian delegation (most recently, in August 2022). Dr. Orlov participates in the activity of several international centers and groups in the sphere of international security. He is a member of the Russian Council of Foreign and Defense Policy (SVOP); of the Russian International Affairs Council (RIAC); of the International Nuclear Energy Academy (INEA); and of the Washington Quarterly Editorial Board. Since 1997 Dr. Vladimir Orlov has been developing PIR Center educational and training activities in the spheres of nuclear nonproliferation, arms control, disarmament and global security. In 2001-2002, he also took an active part as a UN Consultant on disarmament and nonproliferation education in shaping the United Nations Study on Disarmament and Nonproliferation Education which formed the basis of the UN General Assembly Resolution 57/60 (December 30, 2002). Dr. Orlov served as a member of the Global Agenda Council on Nuclear Security at the World Economic Forum (2014-2016). From 2015 to 2018 Dr. Orlov served at the UN Secretary General's Advisory Board on Disarmament Matters. Since 2016 he has been an Academic Advisor of the Dual Degree MA Program "Global Security, Nuclear Policy, and WMD Nonproliferation" (developed by MGIMO University, PIR Center and Middlebury Institute of International Studies at Monterey, USA).



# Global Security: A View from Russia for the Youth Around the World

*Online-course on nuclear nonproliferation and arms control*

## UNIT I. NUCLEAR NONPROLIFERATION REGIME: LONG ROAD TO BE ESTABLISHED

Lecture 3. New Challenge after the Cold War: Proliferation of Weapons of Mass Destruction. 30th anniversary of the the SVR Russian Foreign Intelligence Service Public Report (*Primakov Report*)

### Instructor:

**Ms. Elena Karnaukhova,**

Deputy Director-Education & Training Program Director, Executive Secretary of the online-course, PIR Center



**Ms. Elena  
Karnaukhova**

### BIOGRAPHY:

In January of 2021 joined PIR Center as an Assistant to Director on Special Projects-Education & Training Program Coordinator. Since July 2022 she has been a Deputy Director-Education & Training Program Director of PIR Center. Within the Tenth NPT Review Conference coordinated the work of PIR Center team representatives, who participated in the forum given PIR Center consultative status with ECOSOC. Was one of the editors of PIR Center Security Index Occasional Paper Series “The Tenth NPT Review Conference (2022): Chronicle of the Failure Foretold”. Also holds the positions of Executive Secretary of the *Dialogue* Club International, Executive Secretary of PIR Center International School on Global Security, Executive Secretary of PIR Center Advisory Board. Graduated from the School of World Politics of Lomonosov Moscow State University with honours degrees in International Relations with major in International Security. In 2023 finished PhD courses of the School of World Politics at Lomonosov Moscow State University.

## UNIT I. NUCLEAR NONPROLIFERATION REGIME: LONG ROAD TO BE ESTABLISHED

### Lecture 4. NPT review process. What is it and do we really need it?

**Part 1.** Case one: 1995 NPT RevCon

**Part 2.** Case two: 2022 NPT RevCon



Dr. Vladimir  
Orlov

#### Instructor:

**Dr. Vladimir Orlov,**

Founding Director, Academic Advisor of the online-course, PIR Center; Professor, Department of Applied International Political Analysis, MGIMO University

#### BIOGRAPHY:

Dr. Orlov is an expert in international security and Russia's foreign and defense policy. In 1994, Dr. Orlov founded PIR Center, a private think tank dealing with international security and Russia's foreign policy issues, now a leading Russian research and publishing nongovernmental organization in this area. Dr. Orlov is currently PIR Center's Director; member of its Executive Board; and Director of the "Nuclear Nonproliferation and Russia" Program. In 1994, Dr. Orlov launched the first Russian journal on nonproliferation issues, "Yaderny Kontrol" ("Nuclear Control"). In 2007, the journal was developed into "Security Index" ("Indeks Bezopasnosti"), with both Russian and global (English-language) editions. Currently, "Security Index" continues as Occasional Paper Series, with Dr. Orlov as its Editor-in-Chief. Since 1995, Dr. Orlov took part in the work of all NPT Review Conferences, since 2010 – as a member of the Russian delegation (most recently, in August 2022). Dr. Orlov participates in the activity of several international centers and groups in the sphere of international security. He is a member of the Russian Council of Foreign and Defense Policy (SVOP); of the Russian International Affairs Council (RIAC); of the International Nuclear Energy Academy (INEA); and of the Washington Quarterly Editorial Board. Since 1997 Dr. Vladimir Orlov has been developing PIR Center educational and training activities in the spheres of nuclear nonproliferation, arms control, disarmament and global security. In 2001-2002, he also took an active part as a UN Consultant on disarmament and nonproliferation education in shaping the United Nations Study on Disarmament and Nonproliferation Education which formed the basis of the UN General Assembly Resolution 57/60 (December 30, 2002). Dr. Orlov served as a member of the Global Agenda Council on Nuclear Security at the World Economic Forum (2014-2016). From 2015 to 2018 Dr. Orlov served at the UN Secretary General's Advisory Board on Disarmament Matters. Since 2016 he has been an Academic Advisor of the Dual Degree MA Program "Global Security, Nuclear Policy, and WMD Nonproliferation" (developed by MGIMO University, PIR Center and Middlebury Institute of International Studies at Monterey, USA).



# Global Security: A View from Russia for the Youth Around the World

*Online-course on nuclear nonproliferation and arms control*

## UNIT I. NUCLEAR NONPROLIFERATION REGIME: LONG ROAD TO BE ESTABLISHED

### Lecture 5. Pressure points of the nuclear nonproliferation regime

**Part 1.** Major pressure points of global importance

**Part 2.** Regional pressure points



**Dr. Vladimir  
Orlov**

#### **Instructor:**

**Dr. Vladimir Orlov,**

Founding Director, Academic Advisor of the online-course, PIR Center; Professor, Department of Applied International Political Analysis, MGIMO University

#### **BIOGRAPHY:**

Dr. Orlov is an expert in international security and Russia's foreign and defense policy. In 1994, Dr. Orlov founded PIR Center, a private think tank dealing with international security and Russia's foreign policy issues, now a leading Russian research and publishing nongovernmental organization in this area. Dr. Orlov is currently PIR Center's Director; member of its Executive Board; and Director of the "Nuclear Nonproliferation and Russia" Program. In 1994, Dr. Orlov launched the first Russian journal on nonproliferation issues, "Yaderny Kontrol" ("Nuclear Control"). In 2007, the journal was developed into "Security Index" ("Indeks Bezopasnosti"), with both Russian and global (English-language) editions. Currently, "Security Index" continues as Occasional Paper Series, with Dr. Orlov as its Editor-in-Chief. Since 1995, Dr. Orlov took part in the work of all NPT Review Conferences, since 2010 – as a member of the Russian delegation (most recently, in August 2022). Dr. Orlov participates in the activity of several international centers and groups in the sphere of international security. He is a member of the Russian Council of Foreign and Defense Policy (SVOP); of the Russian International Affairs Council (RIAC); of the International Nuclear Energy Academy (INEA); and of the Washington Quarterly Editorial Board. Since 1997 Dr. Vladimir Orlov has been developing PIR Center educational and training activities in the spheres of nuclear nonproliferation, arms control, disarmament and global security. In 2001-2002, he also took an active part as a UN Consultant on disarmament and nonproliferation education in shaping the United Nations Study on Disarmament and Nonproliferation Education which formed the basis of the UN General Assembly Resolution 57/60 (December 30, 2002). Dr. Orlov served as a member of the Global Agenda Council on Nuclear Security at the World Economic Forum (2014-2016). From 2015 to 2018 Dr. Orlov served at the UN Secretary General's Advisory Board on Disarmament Matters. Since 2016 he has been an Academic Advisor of the Dual Degree MA Program "Global Security, Nuclear Policy, and WMD Nonproliferation" (developed by MGIMO University, PIR Center and Middlebury Institute of International Studies at Monterey, USA).

## **UNIT II. NUCLEAR NONPROLIFERATION AS A FIRST PILLAR OF THE NPT**

### **Lecture 1. Pressure points of the nuclear nonproliferation regime**

**Part 1.** Nuclear-weapon-free zones: evolution of general concept

**Part 2.** Existing NWFZs: establishment and specific features

**Part 3.** Middle East: from NWFZ to WMDFZ. Obstacles to the zone establishment

#### **Instructor:**

**Ms. Daria Pakhomova,**

PhD Candidate, Researcher, MGIMO University



**Ms. Daria  
Pakhomova**

#### **BIOGRAPHY:**

In 2020 graduated from the Faculty of International Relations at MGIMO University. International Chodiev Foundation Scholarship Recipient (2017). Winner of the scientific-research works within the Diplomatic Modul at MGIMO University (2019). Interned in Rosatom State Atomic Energy Corporation (2017, 2018), in the international intergovernmental organization "Joint Institute for Nuclear Research" (2019), Russian Foreign Ministry (2020). Sphere of research and professional interests includes problems of nonproliferation of weapons of mass destruction, arms control in Russia's relations with foreign states, export control, Middle East. Speaks Russian, English, Italian, German, Spanish and Arabic.

## UNIT II. NUCLEAR NONPROLIFERATION AS A FIRST PILLAR OF THE NPT

### Lecture 2. Long time no find. Iran and its nuclear program

Part 1. How long to build a weapon

Part 2. Why Iran seeks an advanced nuclear program

Part 3. A short-lived success of the Iran deal

Part 4. Why the six countries negotiated

Part 5. Dangerous absence of a deal

#### Instructor:

**Mr. Adlan Margojev,**

Research Fellow & Lecturer, MGIMO University; Member of PIR Alumni Community



Mr. Adlan  
Margojev

#### BIOGRAPHY:

Russian expert on Iran, research fellow at the Institute for International Studies and lecturer at the Department of Oriental Studies, MGIMO University. MBA student at the Moscow School of Management SKOLKOVO. He conducts applied analyses of Iran's foreign and domestic policy for the Russian Foreign Ministry and other government bodies, consults Russian entrepreneurs on the business climate in Iran, trains the next generation of Iran experts, and is writing a dissertation on the history of the nuclear talks with Iran. Mr. Margojev served as chief strategy officer at the MGIMO Institute for International Studies (2019-2022) and as director of the "Russia and Nuclear Nonproliferation" program at PIR Center (2017-2019). While studying international relations at MGIMO, he completed a short-term Persian language studies program at the Allameh Tabataba'i University in Iran (2015) and studied in the United States for a year as part of the Dual Degree MA Program "Global Security, Nuclear Policy, and WMD Nonproliferation" (developed by MGIMO University, PIR Center and Middlebury Institute of International Studies at Monterey, USA). (2017). He completed the requirements for the second sports rank in rifle shooting (2014) and the third junior rank in gymnastics (2021). Besides that, he climbed the Damavand volcano in Iran (2022) and the Eastern peak of Mount Elbrus in Russia (2023).

## UNIT II. NUCLEAR NONPROLIFERATION AS A FIRST PILLAR OF THE NPT

### Lecture 3. Long time no being denuclearized. Nuclear status of North Korea (DPRK) and the problem of Korean peninsula denuclearization

**Part 1.** Nuclear program of North Korea (DPRK): background and origins

**Part 2.** First North Korea's nuclear crisis (1993-1994)

**Part 3.** Second North Korea's nuclear crisis (2002-2003)

Six party talks on North Korea's nuclear program in 2003-2009 and other diplomatic efforts

**Part 4.** Nuclear program of North Korea (DPRK): current state of affairs

#### Instructor:

**Dr. Alexander Vorontsov,**

Head, Department for Korean and Mongolian Studies, Institute of Oriental Studies, Russian Academy of Sciences;  
Professor, Russian Academy of Military Sciences; Member of Advisory Board, PIR Center



**Dr. Alexander  
Vorontsov**

#### BIOGRAPHY:

Alexander Vorontsov is currently the head of the Department for Korean and Mongolian Studies at the Institute of Oriental Studies of the Russian Academy of Sciences. He also holds post as Russian Military Science Academy Professor. He repeatedly takes part at the "track 1.5" and "track 2" conferences dealing with the security situation in the Korean Peninsula and East Asia. He was visiting professor at the Hanguk University of Foreign Studies in Seoul from 1998 to 2000; at the Ritsumeikan University in Kyoto, Japan, in 2009, 2012 and 2020; at the Akita International University, Japan, in 2015. Also, he was a member of the faculty of Yonsei University International Summer School in Seoul in 2010, and a visiting fellow at the Brookings Institution Center for Northeast Asian Policy Studies in Washington DC in 2005-2006. Graduated from Asia Pacific-Center for Security Studies Executive Courses in Honolulu in 2005. Dr. Vorontsov served as second secretary in the Russian Federation's Embassy in Pyongyang from 2000 to 2002. He was the member of the Russian part of the Russia-DPRK, Russia-ROK Intergovernmental Commission dealing with trade-economic and scientific-technical cooperation and associate professor at the MGIMO University Ministry of Foreign Affairs of Russia from 2012 to 2022.

Dr. Vorontsov studied at Lomonosov Moscow State University and Pyongyang Kim Il Sung University. Dr. Vorontsov holds Ph.D. in history from the Institute of Oriental Studies at the USSR Academy of Sciences.



## UNIT II. NUCLEAR NONPROLIFERATION AS A FIRST PILLAR OF THE NPT

### Lecture 4. Factors to lead to a new stage on proliferation of nuclear weapons

**Part 1.** Nonproliferation regime at the current stage: new tendencies

**Part 2.** Conditional proliferation of nuclear weapons in the US nuclear policy

The case of nuclear sharing within NATO alliance

**Part 3.** Conditional proliferation of nuclear weapons in the US nuclear policy

Cases of Middle East and East Asia: from transfer of sensitive technologies to extended deterrence

**Part 4.** New nuclear nine? Countries which can go nuclear

#### Instructor:

**Mr. Sergey Semenov,**

Research Fellow, PIR Center; Member of PIR Alumni Community



Mr. Sergey  
Semenov

#### BIOGRAPHY:

In 2019 graduated from the Moscow State Institute of International Relations (MGIMO). Since 2019 has worked in PIR Center, first as an intern and then as a consultant and “Yaderny Kontrol” newsletter editor. Worked at James Martin Center for Nonproliferation Studies as a graduate research assistant. Interned in the Ministry of Foreign Affairs and the Ministry of Defense of the Russian Federation. In 2017-19 presided over MGIMO Foreign Affairs Club. Speaks English, Spanish, and French languages

## UNIT III. DISARMAMENT & ARMS CONTROL. STRATEGIC STABILITY

### Lecture 1. Rise and fall of nuclear arms control regime

- Part 1. Arms control & strategic stability: terminology at a glance
- Part 2. Cold war stories: LTBT, OST, NPT, SALT family, ABM Treaty, INF Treaty
- Part 3. Developing arms control regime in 1990s and 2000s. START family & SORT
- Part 4. Chinese capabilities and arms control experience
- Part 5. Decline of nuclear arms control regime: a long path to the current crisis
- Part 6. Technologies & politics: implications of new factors for arms control regime
- Part 7. The future of nuclear arms control regime: what is next?
- Part 8. Space security: can we prevent the war in space?
- Part 9. Hyperhype: hypersonic weapons, deterrence and arms control



Mr. Dmitry  
Stefanovich

#### Instructor:

**Mr. Dmitry Stefanovich,**

Research Fellow, Sector of Military Economy and Innovations, Center for International Security, IMEMO RAS;  
Member of Advisory Board, PIR Center

#### BIOGRAPHY:

Mr. Dmitry Stefanovich graduated with honors from the Institute of International Relations of the National Research Nuclear University MEPhI with a specialization in International Scientific and Technological Cooperation. In 2019, he worked as a Visiting Researcher at the Institute for Peace and Security Policy Research at the University of Hamburg (IFSH), Germany, within the framework of the Arms Control and New Technologies Program. Mr. Dmitry Stefanovich is a participant of the projects under the auspices of the United Nations Institute for Disarmament Research (UNIDIR), including as a consultant in the preparation and conduct of a “situational exercise” on hypersonic weapons; Stockholm International Peace Research Institute (SIPRI), Stockholm, Sweden; International Institute for Strategic Studies (IISS), London, UK, including as a keynote speaker at a session on hypersonic weapons within the framework of the Missile Dialogue Initiative project; Pugwash Conferences on Science and World Affairs. Mr. Stefanovich is a Member of the Russian International Affairs Council (RIAC) and the Valdai Discussion Club. He is the author of research papers for domestic and foreign publications.

## UNIT III. DISARMAMENT & ARMS CONTROL. STRATEGIC STABILITY

### Lecture 2. Ban on nuclear tests as a mean of nonproliferation, arms control and disarmament

Part 1. Nuclear tests: a conceptual framework

Part 2. 1963 Limited Test Ban Treaty (LTBT): provisions and meaning

Part 3. 1996 Comprehensive Nuclear-Test-Ban Treaty (CTBT): achievements and failures

Part 4. Nuclear tests moratorium in practice

Part 5. Violations, accusations, simulations in the history of nuclear tests ban

Part 6. Technologies & politics: implications of new factors for arms control regime

Part 7. Nuclear tests resumption: now less unthinkable?

#### Instructor:

**Mr. Dmitry Stefanovich,**

Research Fellow, Sector of Military Economy and Innovations, Center for International Security, IMEMO RAS;  
Member of Advisory Board, PIR Center



Mr. Dmitry  
Stefanovich

#### BIOGRAPHY:

Mr. Dmitry Stefanovich graduated with honors from the Institute of International Relations of the National Research Nuclear University MEPhI with a specialization in International Scientific and Technological Cooperation. In 2019, he worked as a Visiting Researcher at the Institute for Peace and Security Policy Research at the University of Hamburg (IFSH), Germany, within the framework of the Arms Control and New Technologies Program.

Mr. Dmitry Stefanovich is a participant of the projects under the auspices of the United Nations Institute for Disarmament Research (UNIDIR), including as a consultant in the preparation and conduct of a “situational exercise” on hypersonic weapons; Stockholm International Peace Research Institute (SIPRI), Stockholm, Sweden; International Institute for Strategic Studies (IISS), London, UK, including as a keynote speaker at a session on hypersonic weapons within the framework of the Missile Dialogue Initiative project; Pugwash Conferences on Science and World Affairs.

Mr. Stefanovich is a Member of the Russian International Affairs Council (RIAC) and the Valdai Discussion Club. He is the author of research papers for domestic and foreign publications.



# Global Security: A View from Russia for the Youth Around the World

*Online-course on nuclear nonproliferation and arms control*

## UNIT III. DISARMAMENT & ARMS CONTROL. STRATEGIC STABILITY

### Lecture 3. Cyber security as a part of the strategic stability equation

Part 1. A bit of terminology

Part 2. 2013 Cyber pact between Russia and the USA

Part 3. 2017 Cyber fata morgana

Part 4. 2021 Strategic equation

Part 5. 2021 Cyber détente between Russia and the USA

#### Instructor:

**Dr. Elena Chernenko,**

Special Correspondent, *Kommersant* Daily; Member of Executive Board, PIR Center



Dr. Elena  
Chernenko

#### BIOGRAPHY:

Ph.D. in History. In journalism since 2003. Dr. Chernenko worked as a correspondent for the newspaper *Moskauer Deutsche Zeitung*, the wire service *EurActiv*, and the magazine *Russian Newsweek*. Currently Special Correspondent of the *Kommersant* Daily. Her professional interests include cyber security and diplomacy, arms control and disarmament, and Russian foreign policy in general. Dr. Chernenko speaks Russian, English and German. She is a Member of PIR Center Executive Board, Co-Chair of the *Triologue* Club International, Member of the Board of the Council on Foreign and Defense Relations (SVOP).

## UNIT III. DISARMAMENT & ARMS CONTROL. STRATEGIC STABILITY

### Lecture 4. Nuclear disarmament: multilateral level

**Part 1.** Multilateral disarmament machinery (MDM). Disarmament triad of the UN

**Part 2.** Conference on Disarmament (CD)

**Part 3.** The substance topics at the CD

**Part 4.** Treaty on the Prohibition of Nuclear Weapons (TPNW)

**Part 5.** Verification of nuclear disarmament: assessments & forecasts

#### Instructor:

**Dr. Andrey Malov,**

Former Russian diplomat, specialized in nuclear nonproliferation, arms control, multilateral disarmament and space security;  
Member of Advisory Board, PIR Center



**Dr. Andrey  
Malov**

#### BIOGRAPHY:

PhD in Political science. Graduated from Maurice Thorez Moscow State Institute of Foreign Languages. Worked at the Committee of the Soviet Youth Organizations responsible for emerging leaders programs. In 1991-1994 – a researcher and lecturer at the Institute for Economic Strategies, Russian Academy of Sciences. In 1991 – a visiting professor in Western International University (Phoenix, Arizona). From 1993 to 2018 he served at the Ministry of Foreign Affairs of the Russian Federation. Seconded in the OSCE missions in Nagorny Karabakh (1994-1996) and Bosnia and Herzegovina (1996-1998). Worked on arms control, nonproliferation and disarmament issues at the Russian Ministry of Foreign Affairs since 1998. For example, he participated in the negotiations on multilateral disarmament as an official member of the Russian delegations. Headed the Russian delegations on LAWs issue within the GGE (unofficial and official formats) in the framework of CCW in Geneva (2013 – 2018). Member of the Advisory Board of PIR Center. Expertise: space security and militarization of outer space, nonproliferation, arms control, multilateral disarmament, inhumane weapons and international humanitarian law.



# Global Security: A View from Russia for the Youth Around the World

*Online-course on nuclear nonproliferation and arms control*

## UNIT III. DISARMAMENT & ARMS CONTROL. STRATEGIC STABILITY

### Lecture 5. A SPECIAL LOOK. Do we really fear nuclear weapons?



Dr. Dmitry  
Trenin

#### Instructor:

#### **Dr. Dmitry Trenin,**

Member of Executive Board, PIR Center; Research Professor, Faculty of World Economy and International Affairs, HSE University;  
Lead Researcher, Section for Nonproliferation and Arms Limitation, Center for International Security, IMEMO RAS

#### **BIOGRAPHY:**

Holds a Ph.D. degree in History. In 1977, graduated from the Military Institute (now Military University) in Moscow. 1983–1993 – Senior Lecturer at the Military Institute. 1973–1993 – served in the Soviet and Russian army. 1978–1983 – Liaison Officer in the external relations branch of the Group of Soviet Forces in Germany (Potsdam). From 1985 to 1991 was a Member of the delegation at the Geneva talks on nuclear and space weapons. 1993 г. – Senior Research Fellow at the NATO Defense College. 1993–1997 – Senior Research Fellow at the Institute of Europe of the Russian Academy of Sciences. 1993–1994 – Visiting Professor at Free University of Brussels. From 1994 to 2008 – Head of the Scientific Council, Lead Researcher and Chairman of the Foreign and Security Policy program of the Carnegie Moscow Center. From 2008 to 2022, he was the Director of the Carnegie Moscow Center. Currently Research Professor at the Faculty of World Economy and International Affairs of the HSE University. Lead Researcher at the Section for Non-Proliferation and Arms Limitation of the Center for International Security, IMEMO RAS. He is a Member of Russia's Council on Defense and Foreign Policy (SVOP) and Russian International Affairs Council (RIAC). From 2002 to 2022 Dr. Dmitri Trenin was PIR Center Advisory Board Member as well. Since 2022 holds the position of PIR Center Executive Board Member.

## UNIT IV. PEACEFUL USES OF NUCLEAR ENERGY AS A THIRD PILLAR OF THE NPT

### Lecture 1. International cooperation in peaceful use of atomic energy

**Part 1.** Nuclear energy in the global energy balance

**Part 2.** International legal regulations of cooperation in peaceful uses of nuclear energy

**Part 3.** Legal practice of Russia in organizing cooperation in peaceful uses of nuclear energy



**Dr. Mikhail  
Lysenko**

**Instructor:**  
**Dr. Mikhail Lysenko,**  
Associate Professor, Deputy Director, International Law Department, MGIMO University; Ambassador Extraordinary and Plenipotentiary (ret.); Member of Advisory Board, PIR Center

#### **BIOGRAPHY:**

In 1977, Dr. Mikhail Lysenko graduated with honors from the School of International Relations at MGIMO University. In 1977–2008, he worked at the Russian Foreign Ministry. In 2000–2004, he was the Director of the Department for Security and Disarmament of the Ministry of Foreign Affairs of the Russian Federation. In 2004–2008, he served as the Ambassador Extraordinary and Plenipotentiary of the Russian Federation to New Zealand. In 2008–2015, he held the position of the Director of the Department of International Cooperation of Rosatom State Atomic Energy Corporation. Since 2016, he has held the position of the Deputy Director of the International Law Department at MGIMO University. Dr. Lysenko took part in negotiations on the drafting of Russian-American Strategic Arms Reduction Treaties, the Comprehensive Nuclear Test Ban Treaty, and the Treaty on Conventional Armed Forces in Europe. He was a part of Russian delegations to the UN, the IAEA, and the CIS. He headed Russian delegations in negotiations on the conclusion of more than 10 intergovernmental agreements on the peaceful use of atomic energy. Dr. Mikhail Lysenko is the author of more than 40 scientific publications.

## UNIT IV. PEACEFUL USES OF NUCLEAR ENERGY AS A THIRD PILLAR OF THE NPT

### Lecture 2. IAEA and safeguards system: the basics

#### Instructor:

**Dr. Alexey Ubeev,**

Fmr. Head of Nuclear Nonproliferation, Safety and Security Division, Ministry of Foreign Affairs;  
Fmr. Deputy Director of the Department for International Cooperation, State Atomic Energy Corporation ROSATOM;  
Fmr. Senior Nuclear Security Officer, IAEA;  
Member of Advisory Board, PIR Center



**Dr. Alexey  
Ubeev**

#### BIOGRAPHY:

Dr. Alexey Ubeev graduated from the Mendeleev University of Chemical Technology and the Diplomatic Academy of the Ministry of Foreign Affairs of the Russian Federation. He held the positions of the Head of the Department and the Vice-Rector for Scientific Work of the East Siberian State Technological University. He participated in elimination of the consequences of the accident at the Chernobyl Nuclear Power Plant. Since 1994, Alexey Ubeev worked in the system of the Ministry of Foreign Affairs of the Russian Federation. He headed the IAEA sector at the Permanent Mission of the Russian Federation to International Organizations in Vienna, Austria, and the Division of Nuclear Safety, Nonproliferation of Nuclear Weapons and International Cooperation in the Peaceful Use of Atomic Energy of the Department for Security and Disarmament of the Ministry of Foreign Affairs of the Russian Federation. Until 2011, he was the Deputy Director of the Department of International Cooperation of the Rosatom State Atomic Energy Corporation. Previously, he was the Deputy Head of the External Relations Department of Atomstroyexport CJSC. Former Senior Nuclear Security Officer at the IAEA. He participated in the development of a number of important international treaties in the field of nuclear nonproliferation and security.



## UNIT IV. PEACEFUL USES OF NUCLEAR ENERGY AS A THIRD PILLAR OF THE NPT

### Lecture 3. Nuclear safety & nuclear security

#### Instructor:

**Dr. Alexey Ubeev,**

Fmr. Head of Nuclear Nonproliferation, Safety and Security Division, Ministry of Foreign Affairs;  
Fmr. Deputy Director of the Department for International Cooperation, State Atomic Energy Corporation ROSATOM;  
Fmr. Senior Nuclear Security Officer, IAEA;  
Member of Advisory Board, PIR Center



**Dr. Alexey  
Ubeev**

#### BIOGRAPHY:

Dr. Alexey Ubeev graduated from the Mendeleev University of Chemical Technology and the Diplomatic Academy of the Ministry of Foreign Affairs of the Russian Federation. He held the positions of the Head of the Department and the Vice-Rector for Scientific Work of the East Siberian State Technological University. He participated in elimination of the consequences of the accident at the Chernobyl Nuclear Power Plant. Since 1994, Alexey Ubeev worked in the system of the Ministry of Foreign Affairs of the Russian Federation. He headed the IAEA sector at the Permanent Mission of the Russian Federation to International Organizations in Vienna, Austria, and the Division of Nuclear Safety, Nonproliferation of Nuclear Weapons and International Cooperation in the Peaceful Use of Atomic Energy of the Department for Security and Disarmament of the Ministry of Foreign Affairs of the Russian Federation. Until 2011, he was the Deputy Director of the Department of International Cooperation of the Rosatom State Atomic Energy Corporation. Previously, he was the Deputy Head of the External Relations Department of Atomstroyexport CJSC. Former Senior Nuclear Security Officer at the IAEA. He participated in the development of a number of important international treaties in the field of nuclear nonproliferation and security.

## UNIT IV. PEACEFUL USES OF NUCLEAR ENERGY AS A THIRD PILLAR OF THE NPT

### Lecture 4. International uranium market: its laws, players and pitfalls

Part 1. Natural uranium market in its essence & key players

Part 2. Enriched uranium market: basic features

Part 3. Pitfalls in nuclear cooperation

#### Instructor:

**Mr. Gleb Efremov,**

General Director, International Uranium Enrichment Centre (Russia); Member of PIR Center Advisory Board



Mr. Gleb  
Efremov

#### BIOGRAPHY:

Earned a degree in Wheeled Vehicles from the Bauman Moscow State Technical University. In 2002–2006, he was a specialist in the Project Management Department, the Head of the Investment Management Department of Techsnabexport. In 2006–2007, he was the Head of the Department, the Director of the Economic Department for the Production of Gas Centrifuges, Adviser to the Director of the SNF Department in Techsnabexport. In 2007–2009, he was Advisor to the Deputy General Director, Advisor to the Director of the Pricing Department of the Financial Directorate of Techsnabexport. In 2009–2016, he was the Commercial Director of the International Uranium Enrichment Centre. Since 2016 he has been the General Director of the International Uranium Enrichment Centre (Russia).



Global Security:  
A View from Russia for the Youth Around the World  
*Online-course on nuclear nonproliferation and arms control*

# How to Pass the Online-Course?



# Global Security: A View from Russia for the Youth Around the World

*Online-course on nuclear nonproliferation and arms control*

**Step 1. Access the NONPROLIFERATION.WORLD: PIR Center education & training platform via the link**

**Step 2. Enter the password (*the password to be sent by the organizers to all registered participants*)**



The screenshot shows the course access page. At the top, there are logos for PIR CENTER, MGIMO UNIVERSITY, and SUPPORTED BY PRESIDENTIAL GRANTS FOUNDATION. Below the logos is a red and blue horizontal bar. The main content area contains the following text:

**Global Security:**  
**A View from Russia for the Youth Around the World**  
*Online-course on nuclear nonproliferation and arms control*

This content is password protected. To view it please enter your password below:

Password:

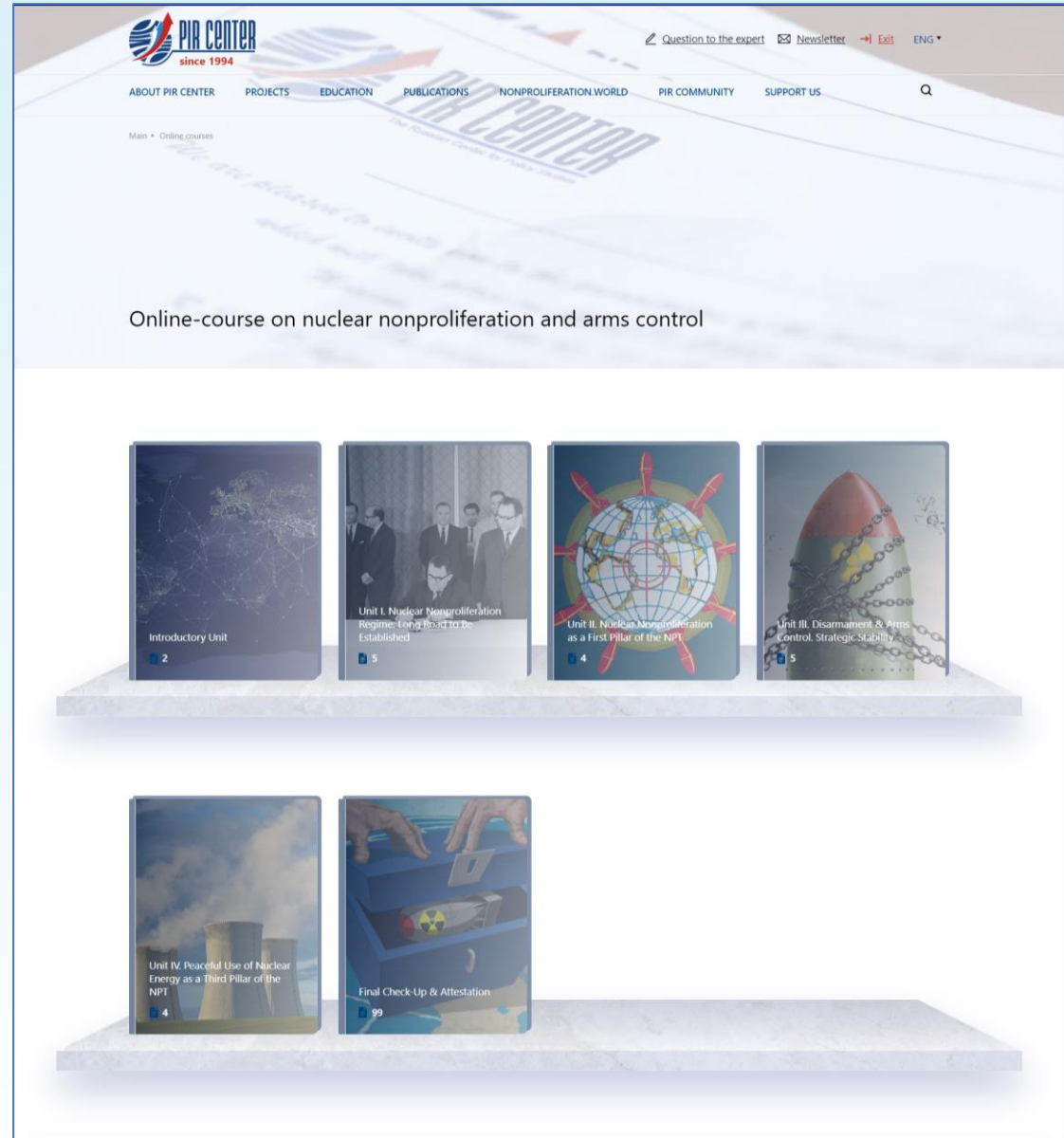
At the bottom left of the page is a small illustration of a rhinoceros. At the bottom center, the URL [www.pircenter.org](http://www.pircenter.org) and NONPROLIFERATION.WORLD are displayed.



# Global Security: A View from Russia for the Youth Around the World

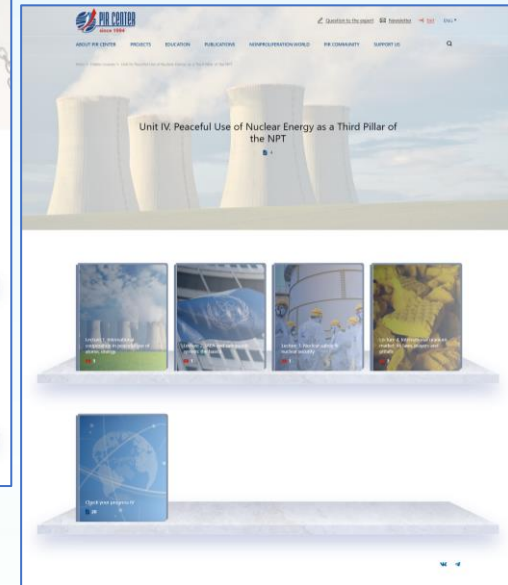
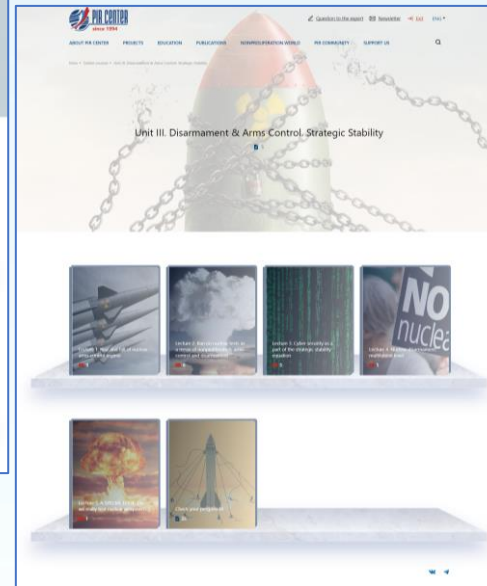
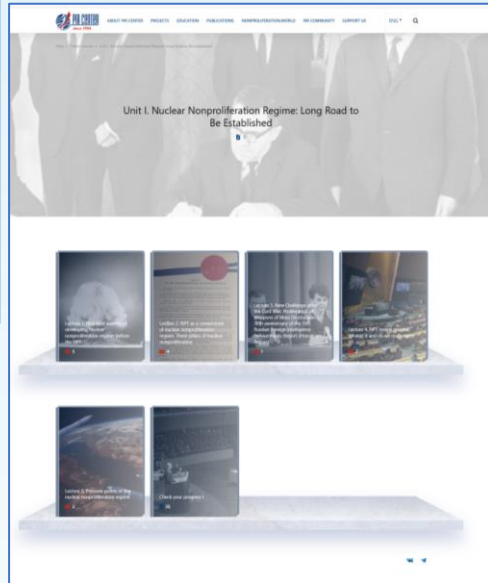
*Online-course on nuclear nonproliferation and arms control*

**Step 3. The Section with the Units opens in front of you**



## Step 4. Each Unit contains the lectures to watch and tests to check you progress after particular unit

**You can watch the video-lectures at any time you wish  
BUT strictly from November 16 to December 17, 2023**



**You can pass *Check Your Progress* tests at any time you wish  
BUT strictly from December 1 to December 17, 2023**

## Step 5. Each lecture contains videos divided into parts and a list of literature

Lecture 2. NPT as a cornerstone of nuclear nonproliferation regime. Three pillars of nuclear nonproliferation

Orlov, Vladimir A.

PARTS

- Part 1. Origins of the NPT
- Part 2. Nuclear nonproliferation pillar
- Part 3. Peaceful uses of nuclear energy pillar
- Part 4. Disarmament pillar
- To read & to watch additionally

UNIT I. NUCLEAR NONPROLIFERATION REGIME: LONG ROAD TO BE ESTABLISHED

Lecture 2. NPT as a cornerstone of nuclear nonproliferation regime. Three pillars of nuclear nonproliferation

Part 1. Origins of the NPT

Посмотреть на YouTube

www.pircenter.org NONPROLIFERATION.WORLD

Lecture 2. NPT as a cornerstone of nuclear nonproliferation regime. Three pillars of nuclear nonproliferation

Orlov, Vladimir A.

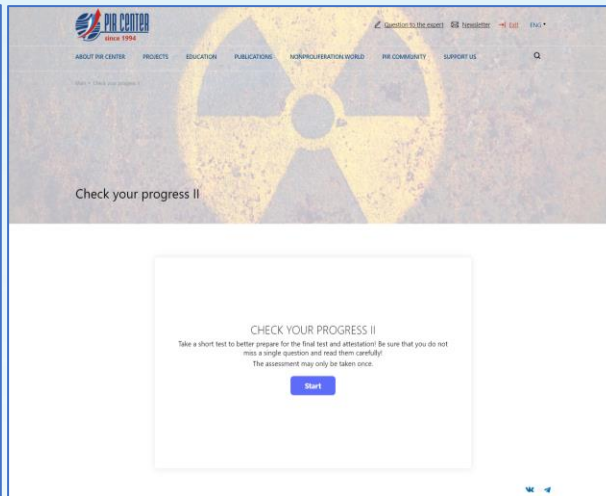
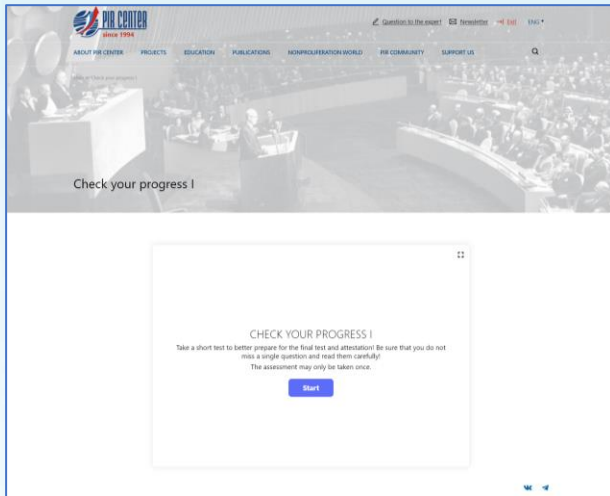
PARTS

- Part 1. Origins of the NPT
- Part 2. Nuclear nonproliferation pillar
- Part 3. Peaceful uses of nuclear energy pillar
- Part 4. Disarmament pillar
- To read & to watch additionally

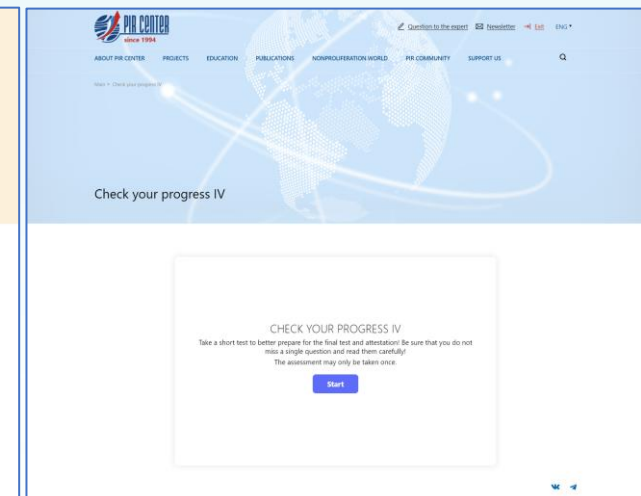
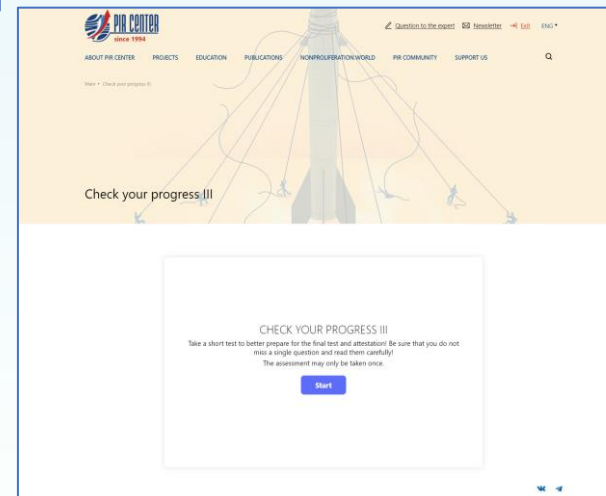
TO READ & TO WATCH ADDITIONALLY

1. Bunn G. The Nuclear Nonproliferation Treaty: History and Current Problems // Arms Control Association.
2. Colonel-General Viktor Esin: on the Cuban Missile Crisis, the US withdrawal from the INF Treaty and the arms race in the Asia-Pacific region (in Russian) // NONPROLIFERATION.WORLD: PIR Center education & training platform.
3. Gavin F.J. Nuclear proliferation and non-proliferation during the Cold War // Cambridge History of the Cold War – Vol. 2 – 2010. – pp. 395-416.
4. Graham T. The Nuclear Non-Proliferation Treaty: Delayed Review – Issues Old and New // Journal for Peace and Nuclear Disarmament – Vol. 4, No. 1. – 2021.
5. Johnson R. NPT: cornerstone of nuclear non-proliferation or stumbling block? // Open Democracy, May 28, 2015.
6. Interview with Vladimir Kuchinov: on the NPT, the principles of nuclear exports and the Iranian nuclear program (in Russian) // NONPROLIFERATION.WORLD: PIR Center education & training platform.
7. Lieutenant General Vasily Lats: on the lessons of the Cold War, the Euro-missile crisis and Ukraine (in Russian) // NONPROLIFERATION.WORLD: PIR Center education & training platform.
8. Lee M., Nacht H. Challenges to the Nuclear Non-Proliferation Treaty // Strategic Studies Quarterly, Fall 2020. – pp. 91-120.
9. Nuclear Disarmament – a Dream, an Ultimate Goal, a Commitment? Lecture by Ms. Izumi Nakamitsu // NONPROLIFERATION.WORLD: PIR Center education & training platform.
10. Ogilvie-White T. Is there a theory of nuclear proliferation? An analysis of the contemporary debate // The Nonproliferation Review, Fall 1996. – pp. 43-60.
11. O'Halloran B. J. The NPT at 50: Successes, Challenges, and Steps Forward for Nonproliferation // Arms Control Association, June 2018.
12. Orlov V., Tushkin I. NPT of Tomorrow // Russia in Global Affairs. – No. 3. – October 16, 2010.
13. Rauf T. The NPT at 50: Perish or Survive? // Arms Control Association, March 2020.
14. Russian-American Nuclear Nonproliferation Dialogue: Lessons Learned and Road Ahead. Ed. by Orlov V., Semenov S. // PIR Center, Singapore: Palgrave Macmillan, 2022.
15. Shaker M. The Nuclear Non-Proliferation Treaty, Origins and Implementation, 1959-1979 // Oceana Publications, Inc., 1980.
16. Sixty years of the Cuban Missile Crisis: lessons for the 21st century (ICCSR, PIR Center & CNS/MIS) // PIR Center YouTube Channel.
17. The Evolving Nuclear Nonproliferation Regime: Challenges and Opportunities. Lecture by Professor William Potter // NONPROLIFERATION.WORLD: PIR Center education & training platform.
18. Timmerbans R. The Nuclear Nonproliferation Treaty Has Largely Achieved Its Goals // Arms Control Association, 2017.
19. Treaty on the Non-Proliferation of Nuclear Weapons, 1968 // United Nations Audiovisual Library of International Law.
20. Антонов А.И. Контроль над вооружениями: история, состояние, перспективы // А.И. Антонов. – М.: Российская политическая энциклопедия (РОССПЭН); ПИР-Центр, 2012. – 245 с.
21. Евстафьев Г.М. Итоги. К 85-летию со дня рождения / Научный центр международных исследований «ПИР-ПИР-Центр» / Предисловие В.А. Орлова. Москва: Издательство «Весь мир», ПИР-Пресс, 2023. 192 с.
22. Орлов В.А. Горный октябрь и холмогорский дух // ПИР-Пост, 31 октября 2022 г.
23. Орлов В.А. Эволюция российской политики в области нераспространения. Лекция 1 // NONPROLIFERATION.WORLD образовательная платформа ПИР-Центра.
24. Орлов В.А. Эволюция российской политики в области нераспространения. Лекция 2 // NONPROLIFERATION.WORLD образовательная платформа ПИР-Центра.
25. Тиммербанс Р.М. Итоги // ПИР-Центр. Москва: ПИР-Пресс. Издательство «Весь мир», 2023. 304 с.
26. Тиммербанс Р.М. Международный контроль над атомной энергией // Научные записки ПИР-Центра, 2003. № 1(2).
27. Тиммербанс Р.М. Россия и ядерное нераспространение, 1945-1968. – М.: Наука, 1999. – 383 с.
28. Тиммербанс Р.М., Банн Дж. Ядерное разоружение: достаточно ли обязательств вали на себя пять ядерных государств до договора о нераспространении ядерного оружия // Ядерный контроль. – № 3. – Март 1995.
29. Холодный Евгений Вадимович. Ядерное нераспространение в диалоге президентов Ельцина и Клинтона / Ред. С.Д. Семенов. М.: ПИР-Пресс, 2021. – 36 с. – (Индекс Безопасности – Научные записки).
30. Энциклопедия «Ядерное нераспространение» // ПИР-Центр.
31. Ядерное нераспространение: Учебное пособие для студентов высших учебных заведений. В 2-х томах. Том I / И.А. Ахметов и др. Под общ. ред. В.А. Орлова. 2-е изд., переработанное и расширенное. – М.: ПИР-Центр, 2002. – 528 с.
32. Ядерное нераспространение: Учебное пособие для студентов высших учебных заведений. В 2-х томах. Том II / Под общ. ред. В.А. Орлова. 2-е изд., переработанное и расширенное. – М.: ПИР-Центр, 2002. – 560 с.

## Step 6. Pass all tests on the results of each unit to check you progress and better prepare for the Final Check-up & Attestation



**You can pass *Check Your Progress* tests  
at any time you wish  
BUT strictly from December 1 to December 17, 2023**



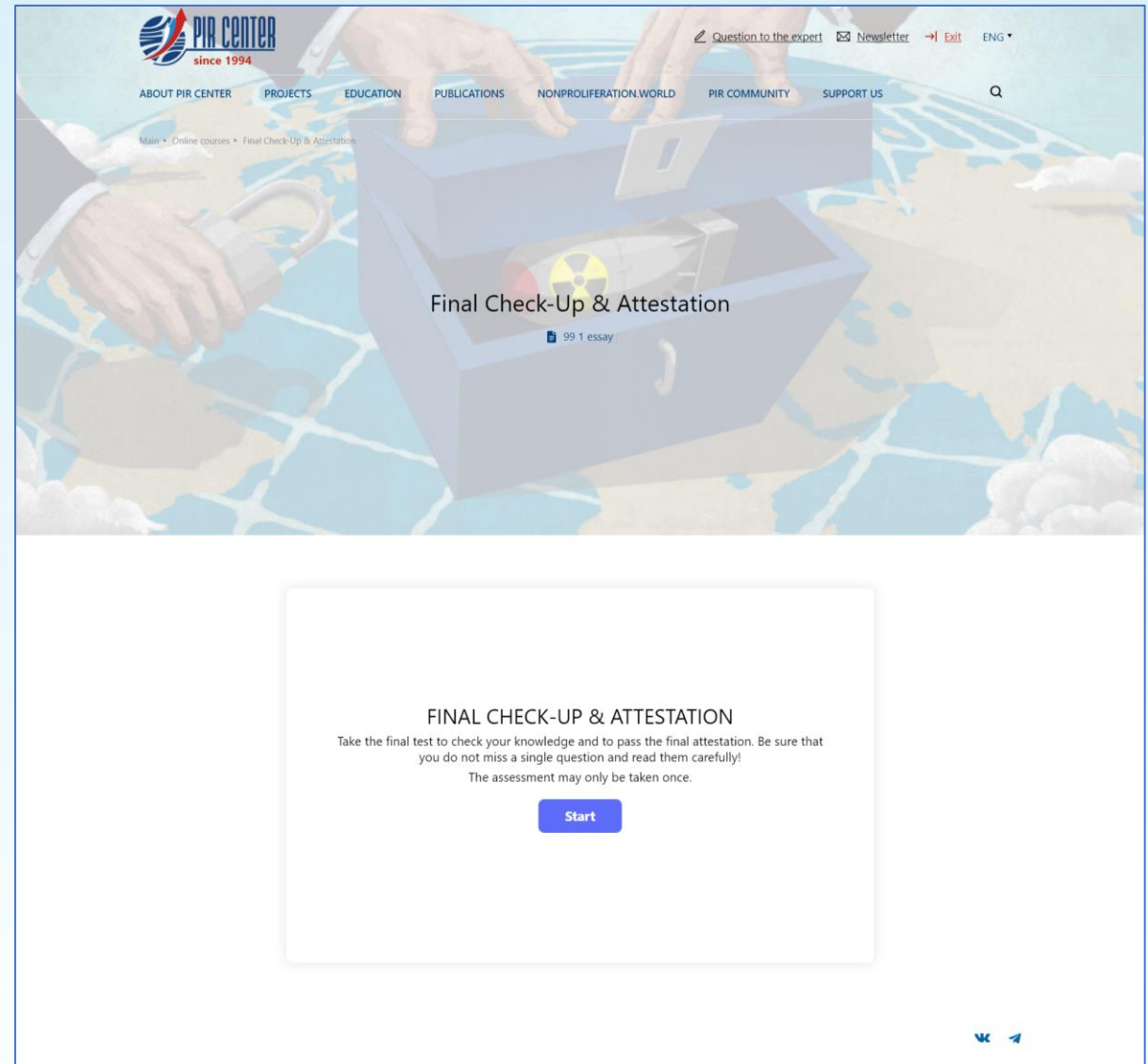


## Step 7. Pass the Final Check-Up & Attestation

- 129 test-format questions (only one answer option is correct)
- 1 free-response question in the format of a 6,000 characters essay.
- The topic of the essay: “Should we reform the international nuclear nonproliferation regime and do we really need it? Possible ways and scenarios that “nuclear nonproliferation culture” can change in the future”. Do not hesitate to express your ideas and thoughts! The more creative you are, the better. What does your imagination and critical thinking tell you?
- The volume of the essay: no less and no more than 6,000 characters with spaces.

You can pass the Final Check-Up & Attestation at any time, you wish, BUT strictly from December 1 to December 17, 2023. PAY ATTENTION that AT THE SAME TIME you should conduct the test itself and then download the text of your essay in the special form provided by the platform.

Participants who have scored at least 60% of the maximum number of points will receive a certificate of advanced training.



The screenshot shows the PIR CENTER website interface. At the top, there is a navigation menu with links for 'ABOUT PIR CENTER', 'PROJECTS', 'EDUCATION', 'PUBLICATIONS', 'NONPROLIFERATION.WORLD', 'PIR COMMUNITY', and 'SUPPORT US'. Below the navigation, there is a breadcrumb trail: 'Main > Online courses > Final Check-Up & Attestation'. The main content area features a large blue box with a radiation symbol and the text 'Final Check-Up & Attestation' and '99 1 essay'. Below this, a white box contains the text 'FINAL CHECK-UP & ATTESTATION' and a 'Start' button.

In case you have got some problems with access to the NONPROLIFERATION.WORLD: PIR Center education & training platform and its content please contact:

**Ms. Ksenia Mineeva**, Information & Publications Program Coordinator



Graduate of the MA program “Global and Regional Security and Conflict Management” at Ural Federal University (UrFU). In 2021, graduated with honors from the Department of International Relations of UrFU. Participated in the international scientific-practical conference “The Nuclear Nonproliferation Regime, Present and Prospects” (2021). Participated in III International Timerbaev Nuclear Debates (2021), organized by PIR Center in partnership with James Martin Center for Nonproliferation Studies. In 2022, completed advanced training program “World Political Shifts through the Prism of New Theoretical Debates and Methods” at the MGIMO-RSHU Summer School. Participated in the international scientific conference “Ways and Countries: Civilizations of the East in Historical Dynamics” (2022). Participated in XXII PIR Center International School on Global Security. Active member of the Ural Nonproliferation Group. Speaks English and Spanish.

Direct contact: [mineeva@pircenter.org](mailto:mineeva@pircenter.org)



**Global Security:**  
**A View from Russia for the Youth Around the World**  
*Online-course on nuclear nonproliferation and arms control*

For general issues or in case you have faced some mistakes in conducting the online-course you can contact Ms. Elena Karnaukhova, Deputy Director-Education & Training Program Director, Executive Secretary of the online-course, PIR Center, directly at [karnaukhova@pircenter.org](mailto:karnaukhova@pircenter.org)





Global Security:  
A View from Russia for the Youth Around the World  
*Online-course on nuclear nonproliferation and arms control*

**Good Luck & Enjoy!**

# This online-course has been prepared by PIR Center with a support of the Presidential Grants Foundation and in partnership with MGIMO University

The contents of each video-lecture within the online-course are the sole responsibility of each instructor and do not reflect the position of PIR Center, its partners, the Russian specialized non-governmental organizations or governmental agencies.

*For questions & comments please contact us at [edu@pircenter.org](mailto:edu@pircenter.org)*