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A book by William C. Potter and Gaukhar Mukhatzhanova

FROM THE EDITOR

This year marks the 20th anniversary of the CNS Visiting Fellows Program. Originally targeted at the former Soviet Union and then China, the program has trained nearly 200 fellows from Russia and the Newly Independent States, as well as more than 60 specialists from China. Since 2007, trainees from Argentina, Chile, Burkina Faso, Egypt, Indonesia, Mexico, the Philippines, Romania, Sri Lanka, and South Africa have participated in the program.

To help our global alumni stay connected, we have created the Global Network of Nonproliferation Specialists, a Facebook group that we hope you will join. We also welcome your submissions to our newsletter, including information about you and your organization's activities in the nonproliferation field, your publications, upcoming events, and other news.

Sincerely,

Margarita Sevcik

NONPROLIFERATION NEWS FROM EURASIA

INTERNATIONAL COMPETITION OF NONPROLIFERATION ANALYTICAL ESSAYS

This spring, another round of the international completion of nonproliferation analytical essays took place under the theme "Global Nuclear Disarmament: Problems and Prospects." The competition was organized by three universities: Novosibirsk State Technical University and Tyumen State University in Russia, and Odessa National University in Ukraine. This competition has taken place for three consecutive years, and every year it attracts more and more participants. This year's completion included contestants from seven universities, including Altay State University, Moscow State Institute of International Relations, Novosibirsk State Technical University, Novosibirsk State University, Russian State University for the Humanities, Novosibirsk State Technical University, Novosibirsk State University, Tyumen State University, and Ural Federal University. The increasing number of contest participants is evidence of the growing interest of the younger generation in the field of nuclear nonproliferation.

Contest judges included leading experts from the Stockholm International Peace Research Institute and Center for Nonproliferation Studies at the Monterey Institute of International Studies.

Competition organizers are pleased to announce the contest results, which are as follows:

1st Prize – Alexei Petrov, Ural Federal University

Does NATO Violate Underlying Principles of the Nuclear Nonproliferation Treaty (NPT) by Deploying U.S. Tactical Weapons in Europe?

2nd Prize (two prizes) – Mikhail Kazantsev, Novosibirsk State Technical University

The Non-Use of Nuclear Weapons Concept and its Applicability to Today's Reality

2nd Prize – Veronika Novikova, Moscow State Institute of International Relations

Transformation of the NPT Regime and Development of Adequate Response Strategies to Ongoing Changes

Contest winners will attend a summer nonproliferation school in Odessa, Ukraine, organized by Odessa National University.

All essays submitted for this competition will be published in a collected volume in the near future.

For additional information about the competition, please contact Vera Gavrilova, Novosibirsk State Technical University, at gavrilova.nsk@yandex.ru.

WHO'S WHO IN NUCLEAR SECURITY AND NONPROLIFERATION EDUCATION

Dmytry Cherkashyn is a lecturer in the Department of Operations and Physical Protection of Nuclear Power Plants at the Sevastopol National University of Nuclear Energy and Industry (SNUNEI). He graduated from SNUNEI in 2008 with the specialization in physical protection of nuclear facilities, nuclear material, radioactive waste and other sources of ionizing radiation. He continued his education at the same university, earning a master's degree in the field of nuclear energy.

Dmytry became interested in nuclear physical protection in 2008, when he was working on a report for a Ukrainian conference on nuclear material control and accounting partially sponsored by the EU and USA. His interest in nuclear security and nonproliferation continued to grow when he became a university instructor in 2010.

Since 2011, Dmytry has been actively involved in educational programs in nuclear security, which are supported by the IAEA International Nuclear Security Education Network (INSEN) and the Swedish Radiation Safety Authority (SSM).

Dmytry takes an active part in annual nonproliferation summer schools organized in Odessa, Ukraine, by Odessa National University and SNUNEI with support from SSM. He provides technical expertise to students studying current nuclear nonproliferation issues. A believer in nuclear security as one of the most important components of the nonproliferation regime, he will continue to promote the study of and the development of nuclear security in Ukraine.

Sevastopol National University of Nuclear Energy and Industry (SNUNEI), Sevastopol, Ukraine

The Institute (which received the status of University in 2005) was established in 1996, on the basis of the Atomic Energy Department at Sevastopol Naval Institute, which has half a century of experience in training specialists in nuclear physics and radiation safety. SNUNEI is home to an operational research light water reactor IR-100, which was commissioned in 1967.¹

SNUNEI is a "base institution of the Ministry of Fuel and Energy of Ukraine. It trains specialists in power plants operation for the nuclear industrial complex, in energy supply and energy preserving systems,

¹ British Nuclear Centers Partnership, http://www.cncp.ru/cis/eng/centres/ukraine/sev_univer_pr.shtml, accessed 05/12/12

in environmental protection, and in information technologies.”² It is a leading institution of higher education in Ukraine with a state license for training specialists in physical protection.

The presence of four nuclear power plants with 15 units on the territory of Ukraine has led SNUNEI to become one of the first universities in Europe and the only university in Ukraine to offer a program for preparing specialists in physical protection of nuclear facilities, nuclear material and other sources of ionizing radiation. The program was developed with support from the IAEA. Currently, program is offered through the bachelor’s degree program in Nuclear Power Engineering.

The IAEA Director General’s annual 2007 report made a note of SNUNEI training and educational efforts in nuclear security. IAEA has supported SNUNEI since 2003 in developing nuclear security education, including the founding of three technical laboratories based on the model of the Moscow Engineering Physics Institute (currently National Research Nuclear University, MEPhI). The report also emphasized that the SNUNEI experience will be made available for the use by other universities.³

In 2008, university faculty members developed and designed a new textbook, *Nuclear Security: Measures to Protect against Nuclear Terrorism*. The textbook was approved by the Ministry of Education and Science of Ukraine. This is one of few textbooks on physical protection, accounting and control of nuclear material (MPC&A) in Ukraine and other former Soviet countries.

According to the IAEA Director General 2010 report, in 2010, 48 engineers specializing in nuclear security graduated from SNUNEI. The same report indicated plans to create a fourth training laboratory at Sevastopol University.⁴

In addition to establishing a new laboratory with the assistance of the IAEA, SNUNEI plans to produce four additional textbooks on MPC&A. University experts are also involved in the development of Ukrainian legislation on creating a state system of training MPC&A specialists. The university is working on opening a professional training center for MPC&A, creating a new master’s degree in nuclear security, and developing international courses on physical protection with support from the IAEA and in collaboration with two Russian leading technical universities, MEPhI and Tomsk Polytechnic University.

This article was prepared based on material provided by D. Cherkashyn. For more information about SNUNEI and its efforts in promoting nuclear security training and education, contact Dmytry at d.cherkashyn@gmail.com.

CNS NEWS

STAFF DEVELOPMENTS

This year, CNS welcomed two new staff members who will contribute to the overall leadership of CNS.

2 SNUNEI website: <http://www.sinp.com.ua/instud5.htm>, accessed 05/16/12
 3 GOV/2007/43-GC(51)/15
 4 GOV/2010/42-GC(54)/9

Jon Wolfsthal has joined CNS as Deputy Director. Jon served as the Special Advisor to Vice President Joseph R. Biden for nuclear security and nonproliferation and as a director for nonproliferation on the National Security Council and assisted in the administration’s security policies. He was previously a senior fellow at the Center for Strategic and International Studies and deputy director for nonproliferation at the Carnegie Endowment for International Peace.

Kenley Butler, former assistant director for administration, has moved on to a new role as director of development in the Institutional Advancement office of the Monterey Institute. In February 2012, Chris Fitz replaced Kenley in this position. Chris worked for CNS from 1992 to 2001. He has extensive leadership experience with a number of nonprofit organizations on the Monterey Peninsula.

SPRING 2012 CNS VISITING FELLOWS

In spring 2012, CNS hosted four visiting fellows on its intensive non-proliferation training program:



CNS fellows with the Director-General of Organization for the Prohibition of Chemical Weapons Ambassador Ahmet Üzümcü.

Dmytro Cherkashyn is a lecturer at the Department of Nuclear Power Plants Operation and Physical Protection, Sevastopol National University of Nuclear Energy and Industry (SNUNEI), Sevastopol, Ukraine.

Tamim Khallaf works in the Office of the Deputy Assistant Foreign Minister for Disarmament and Nonproliferation Affairs, Egyptian Ministry of Foreign Affairs, Cairo, Egypt.

Exequiel Lacovsky is a technology policy advisor at the Undersecretariat of Management Technologies, Chief Ministerial Cabinet and a research assistant at The Non-Proliferation for Global Security Foundation as well as an instructor on foreign policy at the National School of Government, Buenos Aires, Argentina.

Lai Haiyang, an attaché at the Department of Arms Control and Disarmament, is in the Ministry of Foreign Affairs, PRC, Beijing, China.

ROUNDTABLE DISCUSSION BETWEEN MIIS AND RUSSIAN STUDENTS

The Center was host to an April 2012 roundtable discussion between students of the Monterey Institute, Tomsk Polytechnic University, and Tomsk State University. It was a fantastic opportunity for students from halfway around the world to come together via Skype and discuss an issue at the forefront of the policy world – Iran’s nuclear program.

In the United States we encounter different faces of this issue in different fora, from the media and public to government circles to

academia. Not surprisingly, the same is true in Russia, but for the most part the government's official position is what dominates discussion in the US. In addition to differences in opinion about the nature of Iran's program, our two countries also have very different views on how it should be handled. Yet in order for any solution to be effective, we will have to understand these differences of opinion and find common ground. It is with this in mind that we organized this roundtable discussion, in order to better understand where each side is coming from and where we can go from here together.

The event began with an in-depth discussion of various aspects of the issues surrounding Iran, including a brief history of US-Iran and Russia-Iran relations, the roles of the US and Russia in the international arena in regards to Iran, and solutions that our governments are currently exploring. The dialogue quickly transitioned from looking at how the issues are presented to a discussion of our own analysis and opinions in regard to the nature of the threat, diplomatic and military options for resolving the situation, and what we as policy-makers would suggest. While we didn't solve the world's problems, we achieved what we set out to do – establish a collegial dialogue, better understand each other's positions and interests, and identify common ground from which we can build solutions.

The discussion ended an hour and a half later, but not for lack of participation or topics of conversation. Both the quantity and quality of questions were impressive, the discussion was well informed, participants were actively engaged throughout, and the Russians' command of English was impressive. It was great to see such enthusiasm from everyone, and, upon the request of all participants in both auditoriums, we hope to host more student roundtable discussions in the future!

(This article was contributed by Jennifer Dahnke, M.A. Candidate in Nonproliferation and Terrorism Studies, MIIS, Graduate Research Assistant, CNS)

2ND INTENSIVE SHORT COURSE ON NUCLEAR NON-PROLIFERATION AND DISARMAMENT IN VIENNA

On March 12-16, 2012, Vienna Center for Disarmament and Non-Proliferation, in cooperation with the James Martin Center for Nonproliferation Studies, hosted the second short course for practitioners on nuclear disarmament and nonproliferation. Twenty-five diplomats from 24 countries attended lectures on such subjects as the history of the Nonproliferation Treaty (NPT) and its review process, the International Atomic Energy Agency (IAEA) and international safeguards, arms control and nuclear disarmament, nuclear-weapon-free zones (NWFZ), and nuclear challenges in the Middle East. For more information about the course, please see: http://www.vcdnp.org/120312_nonproliferation_short_course.htm.

NEW BLOG ON ARMS CONTROL AND REGIONAL SECURITY IN THE MIDDLE EAST BY CNS EXPERTS

Arms Control and Regional Security for the Middle East is a professional blog launched by two CNS experts to raise global awareness about security in the Middle East-North Africa region. The site is a public tool designed to inform the public, scholars, and decisionmakers in the region about theories and practices of arms

control and ways to promote them. Bilal Y. Saab and Chen Kane, co-authors and co-editors of the blog, together bring more than 25 years of professional experience in strategic arms control, nonproliferation of WMD, and global terrorism. Saab and Kane aim to advance three basic goals: 1) cover and interpret current news and issues related to arms control and regional security in the Middle East; 2) solicit contributions from scholars and practitioners from the Middle East and overseas on topics of concern to the blog; and 3) provide a professional, public forum for dialogue among authors and practitioners from the Middle East.



Bilal Y. Saab



Chen Kane

Former CNS Visiting Fellow from Egypt Ibrahim Said (Fall '11) recently contributed an article, "The Bomb and the Beard: The Egyptian MB's Views Toward WMD." Ibrahim is currently Visiting Scholar at the Technical Nonproliferation and Disarmament Project of the UK/Norway initiative hosted by the Center for Accelerator-based research and Energy Physics, University of Oslo.

The blog can be accessed at <http://www.middleeast-armscontrol.com/>

U.S. AND RUSSIAN HIGH SCHOOL STUDENTS PRESENT ON NUCLEAR SAFETY AND SECURITY IN VIENNA

The spring 2012 Critical Issues Forum conference was held in Vienna, Austria, as a side event of the first session of the Preparatory Committee for the 2015 Review Conference of the Parties to the Treaty on the Nonproliferation of Nuclear Weapons (NPT PrepCom). This year's conference was held on April 30 at the Vienna International Center (where the PrepCom occurred), and on May 1-2 at the Diplomatic Academy of Vienna. IAEA Director General Yukiya Amano gave the keynote address, highlighting his enthusiasm for disarmament and nonproliferation education.

The CIF program is funded by the U.S. Department of Energy to promote nonproliferation education of high school students and teachers. This year's conference was co-sponsored by the James Martin Center for Nonproliferation Studies (CNS), the Austrian Federal Ministry for European and International Affairs, the Vienna Center for Disarmament and Nonproliferation (VCDNP), and the Japanese Ministry of Foreign Affairs. The students investigated formidable challenges related to the issues of nuclear safety and security, which have major impact on global peace and security.

Five students from US high schools and five from Russia's closed nuclear cities as well as students from one school in Bosnia and Herzegovina participated in the final conference in Vienna. In addition, 10 students from the Austrian Red Cross High School and several students from the Diplomatic Academy of Vienna joined the conference as observers.

For more information, visit http://cns.miis.edu/activities/120529_cif_conference_vienna.htm

NEW CNS GLOBAL NONPROLIFERATION NETWORK DATABASE

In observance of the 20th year of the Visiting Fellows Program, CNS is building a database of all CNS training alumni and their current activities to help curb the spread of WMD material and delivery systems.

For more than 20 years, CNS has conducted the Visiting Fellows Program, a nonproliferation training program to assist young and mid-career professionals in various foreign ministries and national export control bodies, as well as researchers, academics, and journalists, to have a positive impact on arms control and nonproliferation policy in their respective countries.



The Visiting Fellows Program is just one of several nonproliferation training programs that take place at the Center. If you are an alumni of one of CNS's training programs, kindly fill out the survey online. Join your colleagues on our Facebook group page and

watch for the announcement launching the CNS Global Nonproliferation Network Database.

CNS LAUNCHES THE U.S.-RUSSIA VIRTUAL SCIENCE CHALLENGE FOR YOUTH

High school students from the U.S. and Russia are meeting online to investigate solutions for managing the world's 240,000 metric tons of spent nuclear fuel. The U.S.-Russia Virtual Science Challenge for Youth is funded by the U.S. Department of State's Bureau of Educational and Cultural Affairs and developed and implemented by the James Martin Center for Nonproliferation Studies (CNS) at the Monterey Institute.

The project is designed to enhance cross-cultural understanding between U.S. and Russian high school students for a joint study of one of the major nonproliferation problems. Using a dedicated and secure online learning and collaboration website, four students from each of five Russian and five American high schools will investigate options for safe and secure storage of the fuel and present their proposed solutions in a Virtual Science Fair.

For more information, please visit the project website at <http://cns.miis.edu/virtual-science-challenge/>.

UPCOMING EVENTS

VII INTERNATIONAL SCI-TECH CONFERENCE IN NOVOURALSK

The VII International Sci-Tech Conference "Automation and Advanced Technologies in the Nuclear Industry" (AAT-2012) will take place October 15-19, 2012, in Novouralsk, Sverdlovsk Region, Russia. The conference is co-sponsored by "Rosatom" State Nuclear Energy Corporation; National Research Nuclear University (NRNU) "MEPHI"; Novouralsk Technological Institute (NTI); City Administration; the James Martin Center for Nonproliferation Studies (CNS), Monterey Institute of International Studies; and the Swedish Radiation Authority (SSM).

The conference will cover a variety of topics including nuclear safety, security, and nonproliferation. For more information about the conference please contact Dr. Grigory Zinovyev (zgs_novour@mail.ru) or visit the conference website at <http://www.nsti.ru>.

3RD INTENSIVE SHORT COURSE ON NUCLEAR NON-PROLIFERATION AND DISARMAMENT IN VIENNA

The Vienna Center for Disarmament and Non-Proliferation and CNS will offer a 3rd intensive course for junior diplomats and other practitioners focused on nuclear nonproliferation policy issues. The course will be held in Vienna, Austria on September 24-28, 2012.

The course will be taught by faculty and experts from the VCDNP and CNS, as well as other international experts. The one-week program will include an extended analysis of the nonproliferation regime, the Nuclear Nonproliferation Treaty (NPT) and its associated institutions and mechanisms, as well as current WMD nonproliferation and nuclear security challenges and possible policy remedies.

The deadline for applications is August 1, 2012, but parties are encouraged to apply as early as possible. Selections will be finalized by August 8, 2012, and applicants informed thereafter. For more information, visit http://www.vcdnp.org/120924_nonproliferation_short_course.htm. All inquiries about the course should be directed to info@vcdnp.org.



Speakers left to right: Gaukhar Mukhatzhanova, William Potter, and Elena Sokova during the September 26-30, 2011, Short Course

NEW PUBLICATION

THE NUCLEAR POLITICS OF THE NON-ALIGNED MOVEMENT: PRINCIPLES VERSUS PRAGMATISM

A book by William C. Potter and Gaukhar Mukhatzhanova

The Non-Aligned Movement (NAM) is the largest grouping of states engaged on nuclear disarmament and non-proliferation issues, but is often misunderstood by Western scholars and policymakers. This Adelphi explores the structures and politics within NAM, and stresses the potential for greater engagement between NAM members and the West in mitigating many of the most pressing nuclear disarmament, nonproliferation and terrorism challenges. Its thorough examination offers invaluable insight ahead of the 2015 NPT Review Conference and as NAM approaches a possible watershed moment in the movement's history: the assumption by Iran of the chairmanship in mid-2012.

For information on how to order the book, visit http://cns.miis.edu/books/nam_nuclear_politics.htm.