

Catalogue of Civil Society Activities Strengthening Nuclear Security

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CATALOGUE OF CIVIL SOCIETY ACTIVITIES STRENGTHENING NUCLEAR SECURITY

2021

The International Nuclear Security Forum and the Henry L. Stimson Center are pleased to present a pilot catalogue of civil society capacity building, assistance, and/or research programs. The catalogue highlights for all interested parties, including the International Atomic Energy Agency (IAEA) and its Member States, the Global Partnership Against the Spread of Weapons and Materials of Mass Destruction, Global Initiative to Combat Nuclear Terrorism, INTERPOL, and industry stakeholders, civil society's contributions to strengthen nuclear security and nonproliferation. By providing a uniform product, interested parties will be able to easily identify programs, experts, and organizations that support different areas of nuclear security.

In total, 18 organizations submitted 64 projects to the catalogue, the majority of which were think tanks and research or academic institutes. These civil society organizations were spread across five continents, with ten organizations based in the United States, two in Austria, and the rest coming from India, Ghana, Georgia, Belgium, the United Kingdom, and Australia.

The median project duration, as of the time of submission, was approximately 1.5 years, and the geographic focus was overwhelmingly described as “worldwide,” with 51 of the 64 projects identifying as such. Project types largely fell into the categories of “training and education,” “improving nuclear security culture,” “best practice or lessons learned exchanges,” and “strengthening international nuclear security architecture.”

This catalogue is compiled by the International Nuclear Security Forum and the Henry L. Stimson Center. Material contained in this catalogue will also be included in the Stimson Center's UNSC Resolution 1540 Assistance Support Initiative Database, available at <https://1540assistance.stimson.org/>



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Center for Arms Control and Non-Proliferation



Type of Organization: Think Tank

Organization Description: The Center for Arms Control and Non-Proliferation is a national nonpartisan, nonprofit organization dedicated to the promotion of nuclear arms control, prevention of nuclear terrorism through effective nuclear security policies, the ultimate elimination of nuclear weapons, and the enhancement of peace and security through expert policy analysis and research. With support from foundations and individual donors, the Center uses its expert research and analysis to educate policymakers and the public about the cost and consequences of nuclear weapons and the various ways to mitigate the threats associated with the world's most dangerous weapons. With its depth of experts, experienced advisors and committed staff, the Center produces research and analysis on these issues for Members of Congress and their respective personal and committee staffs; various government agencies and departments; the media and the public. Further, the Center frequently works cooperatively with organizations in the peace and security community.

Organization Location: Washington, D.C., USA

For more information, please visit <https://armscontrolcenter.org/>

Project #1 Name: Reducing and Eventually Eliminating the Threats Posed by Nuclear, Chemical and Biological Weapons Through Congressional Engagement and Public Education

Project Type: Legislative and Regulatory Analysis

Geographical Focus: Worldwide

Project Description: To supplement its existing Hill outreach efforts, the Center will produce new digital and print content, including our in-house podcast, interactive graphics and short videos, infographics, and factsheets on the following issue areas: Support for the international non-proliferation regime; prevention of nuclear terrorism through effective nuclear security policies; review and monitoring of the modernization of the U.S. nuclear infrastructure; support for U.S.-Russian strategic stability efforts; analysis of international nuclear tensions, including the ongoing North Korea nuclear crisis; drawing congressional and public attention to linked existential threats: climate change and nuclear war; support for U.S.-Iran strategic stability efforts with a focus on rejoining the Joint Comprehensive Plan of Action; analysis of the costs and challenges of the national missile defense program; promotion of a Pentagon budget that prioritizes necessity and fiscal accountability; multilateral arms control treaties and agreements, like the Nuclear Non-Proliferation Treaty.

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Active

Project Duration: September 1, 2020 – ongoing

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Centre for Science and Security Studies, King's College London



Type of Organization: Academia

Organization Description: The Centre for Science and Security Studies (CSSS) is a multi-disciplinary research and teaching group that brings together scientific experts with specialists in politics, international relations, and history. CSSS forms part of the School of Security Studies at King's College London and draws on experts from the Department of War Studies, Defence Studies and other units across the College. Members of the Centre conduct scholarly and policy-relevant research on weapons proliferation, non-proliferation, verification and disarmament, nuclear security, space security and mass effect terrorism including the CBRN (chemical, biological, radiological, and nuclear) dimension.

Organization Location: London, United Kingdom

For more information, please visit <https://www.kcl.ac.uk/csss>

Project #1 Name: Nuclear Security Culture Programme

Project Type: Strengthening international nuclear security architecture/Improving nuclear security facility-level implementation/Strengthening transport security/Improving nuclear security culture/Best practice or lessons learned exchanges/Enhancing advanced reactor security/Enhancing security at decommissioning sites/Training and education/Cyber security/Security governance/Safety-security-safeguards intersection

Geographical Focus: Worldwide

Project Description: The UK's Nuclear Security Culture Programme works internationally to strengthen the security of nuclear materials and other sensitive assets, reducing the possibility of nuclear terrorism and other risks. Since 2014, the Programme has delivered more than 50 activities for an international audience, delivered online, in the UK and internationally in partnership with relevant organizations in ten countries. It has engaged thousands of government, regulator and industry practitioners working on nuclear security issues. Activities aim to: improve the awareness and understanding of the full range of threats to nuclear assets and how they manifest in different operational environments; support governments, regulators and industry around the world in strengthening the implementation of nuclear security, drawing on the UK and other countries' experiences; extract and share practical lessons learnt in establishing programmes to strengthen and assess nuclear security culture; and collaborate with relevant international organizations, such as the IAEA, to support new research and the development of nuclear security guidance, educational resources and effective security practices.

Funding Partner(s): UK Department of Business, Energy, and Industrial Strategy

Other Implementing Partner(s): Nuclear Transport Solutions; Amport Risk Ltd

Project Status: Ongoing

Project Duration: September 1, 2014 – April 4, 2022

Point(s) of Contact:

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Project #2 Name: Data Science in Support of Radiation Detection for Border Monitoring

Project Type: Border security/Combating nuclear smuggling

Geographical Focus: Worldwide

Project Description: King's College London worked with the IAEA under Coordinated Research Project, "Improved Assessment of Initial Alarms from Radiation Detection Instruments," (CRP-J02005) to develop a new approach to the assessment of initial alarms from radiation portal monitors exploring how data science techniques might enhance the operation of detection systems. In a proof-of-concept study, which involved the analysis of real-world alarming records, CSSS researchers demonstrated how a new data-driven approach to radiation detection, integrating dynamic time warping and agglomerative hierarchical clustering, could significantly improve the ability of existing systems to identify smuggled nuclear materials.

Funding Partner(s): IAEA

Other Implementing Partner(s): Department of Informatics, King's College London

Project Status: Completed

Project Duration: September 1, 2017 – September 9, 2019

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Vienna Center for Disarmament and Non-Proliferation (VCDNP)



Type of Organization: Think Tank

Organization Description: The Vienna Center for Disarmament and Non-Proliferation is an international non-governmental organization established on the initiative of the Austrian Foreign Ministry in 2010 and officially opened in 2011. It is operated by the James Martin Center for Nonproliferation Studies at the Middlebury Institute of International Studies at Monterey. The VCDNP's mission is to promote international peace and security by providing a platform for independent analysis and dialogue in the field of nuclear disarmament and non-proliferation. In order to fulfil its mission, the VCDNP employs conferences, seminars, and other fora to foster result-oriented discussion among international organizations, national governments, non-governmental experts, scholars, and civil society. The Center partners with other academic and non-governmental institutions, as well as international organizations in conducting research, outreach, education, and training on non-proliferation, disarmament, and nuclear security.

Organization Location: Vienna, Austria

For more information, please visit <https://vcdnp.org/>

Project #1 Name: Reframing the Discourse on Nuclear Security: Building Capacity and Strengthening the Nexus With Peaceful Uses and the Sustainable Development Goals

Project Type: Best practice or lessons learned exchanges/Training and education/Security governance/
Safe and secure peaceful uses of nuclear technology

Geographical Focus: Worldwide

Project Description: The project involves organizing panel discussions on secure and sustainable access and use of nuclear technology in fields of human health, electricity production or climate smart agriculture. Targeted for diplomats of Member States of the IAEA and other nuclear policy makers in capitals, each panel discussion is envisioned to include three technical experts from developing countries from three different regions and an expert from the IAEA. The panel discussions aim at promoting the benefits of the secure and sustainable application of nuclear technology within the context of the Sustainable Development Goals. They highlight the challenges faced and successes achieved by IAEA Member States and the important contribution of the IAEA. Fact sheets built upon the panel discussions provide salient facts on the technology used and security measures applied, and summarize key experiences and takeaways of each workshop, thus offering easily accessible information for diplomats and other nuclear policy makers .

Funding Partner(s): UK Foreign, Commonwealth and Development Office; International Science and Technology Center, Kazakhstan

Other Implementing Partner(s): N/A

Project Status: Ongoing

Project Duration: February 1, 2018 – ongoing

Point of Contact:

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Project #2 Name: Nuclear Security Training Course for Vienna-Based Diplomats and Other Officials from Capitals

Project Type: Strengthening international nuclear security architecture/Training and education/Security governance/Safety-security-safeguards intersection

Geographical Focus: Worldwide

Project Description: The VCDNP organizes a training course in nuclear security for Vienna-based diplomats and other officials from capitals with responsibility for nuclear policy. The VCDNP will particularly welcome applications from representatives of developing States. The course program is structured to enhance participants' understanding of technical as well as key political issues related to nuclear security. The five-day course includes practical exercises, lectures delivered by the VCDNP, IAEA and other international experts, and roundtable and group discussions. The training course is structured in several modules, covering the following topics: (1) history of the nuclear security regime; (2) binding and non-binding legal instruments; (3) multilateral initiatives and the role of the IAEA and other organizations; (4) current issues, challenge and opportunities related to nuclear security; (5) policy and politics regarding nuclear security; (6) and synergies between nuclear security and peaceful uses of nuclear technology.

Funding Partner(s): UK Foreign, Commonwealth and Development Office

Other Implementing Partner(s): N/A

Project Status: Ongoing

Project Duration: July 1, 2021 – March 31, 2022

Point(s) of Contact:

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Project #3 Name: Biannual Intensive Short Course on Non-Proliferation and Disarmament Issues for Diplomats and Practitioners in the Nuclear Field

Project Type: Training and education/Security governance/Non-proliferation, arms control, disarmament

Geographical Focus: Worldwide

Project Description: This flagship VCDNP course targets diplomats posted in Vienna who are often new to both the technical and political aspects of nuclear issues. The course is also open for diplomats and practitioners based in other duty stations and in national capitals, including nuclear regulators and officials from national ministries of energy, foreign affairs, and defense. The course aims at enhancing participants' understanding of a wide range of issues, including: nuclear energy and the nuclear fuel cycle; the non-proliferation regime, including the Treaty on the Non-Proliferation of Nuclear Weapons and its review process, and nuclear weapon-free zones; disarmament machinery, historical developments and recent disarmament initiatives; nuclear safeguards, nuclear security and strategic trade controls; nuclear arms control historically and today; the peaceful uses of nuclear science and technology; regional case studies; and the work of the international organizations in Vienna. The course is conducted in spring and autumn.

Funding Partner(s): Government of Norway; Carnegie Corporation of New York; John D. and Catherine T. MacArthur Foundation

Other Implementing Partner(s): N/A

Project Status: Ongoing

Project Duration: August 31, 2021 – ongoing

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Project #4 Name: Training Diplomats and Policymakers in International Atomic Energy Agency Safeguards

Project Type: Training and education/Safety-security-safeguards intersection/Safeguards

Geographical Focus: Worldwide

Project Description: The course is targeted to diplomats of IAEA Member States new to Vienna, especially those from developing or nuclear newcomer countries. The course aims at providing a comprehensive overview on the IAEA's system of safeguards and will cover a number of topics, including key safeguards concepts; the main organizations involved; political and legal frameworks; opportunities and challenges in implementing safeguards agreements; and further strengthening of IAEA safeguards.

Funding Partner(s): UK Foreign, Commonwealth and Development Office

Other Implementing Partner(s): N/A

Project Status: Ongoing

Project Duration: July 1, 2021 – March 31, 2022

Point(s) of Contact:

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Project #5 Name: Addressing Disparities Between Safeguards and Export Controls and the Impact of Emerging Technology

Project Type: Safeguards, export controls

Geographical Focus: Worldwide

Project Description: The Model Protocol Additional to safeguards agreements includes two Annexes. Annex I contains a list of nuclear-related activities which a State is required to declare to the IAEA, and Annex II provides a list of specified equipment and non-nuclear material exports and imports of which a State is obliged to reporting to the IAEA. This project aims to produce a neutral, technical assessment of technology developments that have taken place since 1995 that have proliferation or safeguards significance, which are not covered by the Model Additional Protocol's Annexes. This will include analysis of the proliferation significance of each technology. To this end, the VCDNP will consider items that are covered in the Nuclear Suppliers Group's Trigger List and other regimes in nuclear governance, as well as technologies which are not covered by any regime, but may be desirable for future inclusion into the Model Additional Protocol's Annexes.

Funding Partner(s): UK Foreign, Commonwealth and Development Office

Other Implementing Partner(s): N/A

Project Status: Ongoing

Project Duration: August 1, 2021 – March 31, 2022

Point(s) of Contact:

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Project #6 Name: Intensive Course on the Proliferation of Weapons of Mass Destruction

Project Type: Training and education/Non-proliferation and export controls

Geographical Focus: Europe

Project Description: The course is targeted for graduate and post-graduate students studying in European universities in the fields of nuclear energy, information technology, and engineering. It is aimed at bringing the global non-proliferation regime into perspective for the next generations of technical specialists who may not be aware of the non-proliferation implications of their respective fields. The course program covers a broad range of topics, from the fundamentals of the nuclear fuel cycle and the history of the spread of nuclear weapons, to export controls and the challenges and opportunities presented by advanced and

emerging technologies. The students will learn about different elements of the international non-proliferation regime, including the Treaty on the Non-Proliferation of Nuclear Weapons, the IAEA and its safeguards, and the Comprehensive Nuclear-Test-Ban Treaty Organization and the verification system it establishes.

Funding Partner(s): European Union

Other Implementing Partner(s): N/A

Project Status: Ongoing

Project Duration: October 1, 2021 – March 31, 2022

Point(s) of Contact:

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Project #7 Name: Impact of the Amendment to the Convention on the Physical Protection of Nuclear Material on States Parties

Project Type: Strengthening international nuclear security architecture/Security governance/Universalization of legal instruments

Geographical Focus: Worldwide

Project Description: Compared with the original Convention on the Physical Protection of Nuclear Material, the Amendment thereto closes important gaps in the physical protection of nuclear material and facilities and introduces other nuclear security-related measures. While in force since 2016, the Amendment, however, is not yet universally applied as it only has 125 States Parties plus Euratom. As long as the Amendment is not universalized, the goal of achieving a global nuclear security regime will not be achieved. There are several key challenges to its universalization, which include: (1) inadequate knowledge among non-adherent States about Amendment provisions and the domestic changes they entail, (2) lack of internal resources for effective implementation, and (3) low awareness about international tools and assistance available for implementation. The project addresses these issues by studying the impact of the implementation of the Amendment on States Parties and exploring measures that would facilitate effective implementation of the Amendment and its universality.

Funding Partner(s): International Science and Technology Center, Kazakhstan; Swiss Federal Department of Foreign Affairs

Other Implementing Partner(s): N/A

Project Status: Ongoing

Project Duration: July 1, 2020 – September 29, 2021

Point(s) of Contact:

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Project #8 Name: Task Force on Reframing the Conversation on Non-Proliferation and Peaceful Uses

Project Type: Security governance/Safety-security-safeguards intersection/Peaceful uses of nuclear technology

Geographical Focus: Worldwide

Project Description: The Task Force aims at examining and providing recommendations for approaches that could lead to increased access to nuclear science and technologies for peaceful uses and sustainable development, while maintaining prudent non-proliferation and nuclear security objectives. The Task Force examines these issues in the context of the Treaty on the Non-Proliferation of Nuclear Weapons review process and within the IAEA.

Funding Partner(s): Carnegie Corporation of New York

Other Implementing Partner(s): N/A

Project Status: Ongoing; completed

Project Duration: November 1, 2020 – February 28, 2022

Point(s) of Contact:

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Project #9 Name: Young Women in Non-Proliferation and Disarmament Mentorship Programme

Project Type: Training and education/Non-proliferation, disarmament, arms control

Geographical Focus: Worldwide

Project Description: A Young Women in Non-Proliferation and Disarmament (YWNPD) Mentorship Programme has been created under the Young Women and Next Generation Initiative, established by the Vienna Center for Disarmament and Non-Proliferation and the International Affairs Institute (Italy) in the framework of the EU Non-Proliferation and Disarmament Consortium. The YWNPD Mentorship Programme aims to expose young women in undergraduate, graduate, and post-graduate studies in Europe and globally to the non-proliferation, arms control, and disarmament field. It will pair successful candidates (mentees) with well-established experts (mentors) to engage in a mentoring relationship, which envisions, among other things, regular videoconferencing sessions. Mentees will also be expected to attend

conferences, including the EU Annual Conference and the Next Generation Workshop usually held in the Fall. Networking and career opportunities will be facilitated through seminars, social events, and other activities.

Funding Partner(s): European Union

Other Implementing Partner(s): International Affairs Institute, Italy

Project Status: Ongoing

Project Duration: April 1, 2021 – April 30, 2022

Point(s) of Contact:

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James Martin Center for Nonproliferation Studies, Middlebury Institute of International Studies



Type of Organization: Academia; Think Tank; Research Institute

Organization Description: The James Martin Center for Nonproliferation Studies (CNS) strives to combat the spread of weapons of mass destruction (WMD) by training the next generation of nonproliferation specialists and disseminating timely information and analysis. It is the largest nongovernmental organization in the United States devoted exclusively to research and training on nonproliferation issues. It is located at the Middlebury Institute of International Studies at Monterey (MIIS). CNS is deeply committed to diversity, inclusion, and equity, both within our organization and in the nonproliferation and international security field writ large.

Organization Location: Monterey, CA, USA

For more information, please visit <https://nonproliferation.org/>

Project #1 Name: CNS Nonproliferation Visiting Fellows Program

Project Type: Training and education

Geographical Focus: Worldwide

Project Description: The CNS Visiting Fellows Program is designed to assist junior and mid-career policy and technical professionals obtain an in-depth understanding of legal, political, regional, and technical aspects of WMD nonproliferation, and to develop the skills necessary to have a positive impact on arms control and nonproliferation policy in their respective countries and in the international arena. The program's overall goal is to train a new generation of experts in the area of WMD nonproliferation, provide them with the knowledge and understanding of the nonproliferation regime and international policy-making process, and help build countries' core competencies to secure and curb the spread of dangerous materials and technologies. The program provides visiting fellows with an interdisciplinary curriculum combining policy and technical aspects of nonproliferation and arms control issues, as well as nuclear security and WMD-related technologies. Program instructors include US and international experts with backgrounds in history, political science, international relations, nuclear physics, and life science. Throughout the program, fellows interact regularly with CNS/MIIS experts and professors and visiting experts, deepening their knowledge of current WMD policy, science, and technologies. The Visiting Fellows Program is offered twice a year. The Spring session typically runs from early February to mid-July, while the Fall session is normally offered from the end of August until early December.

Funding Partner(s): multiple

Other Implementing Partner(s): N/A

Project Status: Ongoing

Project Duration: August 1, 1992 – ongoing

Point(s) of Contact:

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Project #2 Name: Nuclear Nonproliferation and Security for Women in STEM in Africa

Project Type: Strengthening international nuclear security architecture/Best practice or lessons learned exchanges/Training and education/Improving radiological security

Geographical Focus: Sub-Saharan Africa

Project Description: The primary objective of these courses is to provide female technical experts, researchers, scientists, and governmental officials with a broader understanding of weapons of mass destruction nonproliferation, arms control, disarmament, the peaceful uses of nuclear energy, chemical, biological, radiological, and nuclear security, as well as the various institutions, tools, and mechanisms necessary to address current nonproliferation and security challenges. These courses aim to support worldwide efforts in promoting women in STEM in general, and in the areas of WMD nonproliferation and security. Course programs feature leading international, regional, and local experts and practitioners from academia, national governments, and international organizations.

Funding Partner(s): Norway; US private foundations

Other Implementing Partner(s): African Center for Science and International Security

Project Status: Ongoing

Project Duration: February 1, 2017 – ongoing

Point(s) of Contact:

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Project #3 Name: Black Sea Women in Nuclear Network

Project Type: Strengthening international nuclear security architecture/Best practice or lessons learned exchanges/Training and education

Geographical Focus: Black Sea region

Project Description: Black Sea Women in Nuclear Network is a regional professional network for advancing women working in the nuclear sector. Its mission is to connect, support, and empower women in the fields of nuclear energy, radiation applications, nuclear security, and nonproliferation. Interdisciplinary by nature, the network will bring together women in STEM and policy from national governments, industry, civil society, and academia from Bulgaria, Georgia, Romania, Turkey, Ukraine, and Moldova. The Network will serve as a platform for professionals to promote gender equity and increase women's leadership roles in

nuclear security and nonproliferation, as well as offer professional exchanges, mentoring, and training opportunities.

Funding Partner(s): US Department of Energy National Nuclear Security Administration; Swedish Radiation Safety Authority

Other Implementing Partner(s): Los Alamos National Laboratory

Project Status: Active

Project Duration: April 1, 2021 – September 30, 2022

Point(s) of Contact:

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Project #4 Name: “The Final Stretch: Tackling Remaining HEU Challenges” (CNS Occasional Paper #51)

Project Type: HEU minimization/Enhancing advanced reactor security

Geographical Focus: Worldwide

Project Description: Minimizing civil commerce in highly enriched uranium (HEU) has been a longstanding goal of Global Partnership countries, as HEU represents a highly attractive target for terrorists and proliferators. HEU can be used to create the simplest nuclear explosive device, a so-called gun-type weapon. To make matters worse, because HEU is only weakly radioactive, it is relatively safe to handle and hard to detect. Even HEU waste is less radioactive than one might hope from a security-oriented standpoint. HEU’s primary civilian use is in research reactors, which carry out a range of functions from education and basic scientific research to producing medical isotopes and “doping” silicon for semiconductors. The international community has made significant progress during the last decades in converting such reactors from HEU to LEU fuels.

Funding Partner(s): UK Department for Business, Energy & Industrial Strategy

Other Implementing Partner(s): N/A

Project Status: Completed

Project Duration: December 1, 2020 – August 1, 2021

Point(s) of Contact:

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Project #5 Name: International Nuclear Safeguards Policy and Information Analysis Course

Project Type: Safety-security-safeguards intersection/Safeguards

Geographical Focus: Worldwide

Project Description: CNS and the Lawrence Livermore National Laboratory offer the annual Department of Energy National Nuclear Security Administration (NNSA)-sponsored International Nuclear Safeguards Policy and Information Analysis in Monterey, CA. The course is tuition free and open to all nationalities. Some stipends may be available to nonlocal applicants to partially cover transportation and housing. Course applicants who are U.S. citizens may also apply for a ten-week paid internship at LLNL. Course topics include: The role of the IAEA and international safeguards in the nuclear nonproliferation regime; concepts, objectives, evolution, and history of international nuclear safeguards; State-level safeguards analysis; case-study analyses of safeguards challenges; introduction to safeguards inspection, material accounting, containment, and surveillance; open-source information collection and analysis; effectiveness and limitations of safeguards; future development of safeguards

Funding Partner(s): Department of Energy NNSA

Other Implementing Partner(s): LLNL

Project Status: Ongoing

Project Duration: June 1, 2007 – ongoing

Point(s) of Contact:

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Project #6 Name: CNS Export Control and Nonproliferation Program

Project Type: Best practice or lessons learned exchanges/Training and education/Border security

Geographical Focus: Latin America; South Asia/Asia-Pacific; South Asia

Project Description: CNS' Export Control and Nonproliferation Program coordinates the Center's educational and research activities focused on international and national trade control mechanisms used to reduce risk of legal, cross-border transfers of dual-use goods and technologies being diverted to WMD proliferation activities. In recent years, the program's efforts have included conducting a training fellowship for nonproliferation export control practitioners; national-level consultations on legal-regulatory development related to strategic trade control; awareness-building engagement with industry, particularly suppliers and service providers engaged in trade involving dual-use goods and technologies; and research into challenges presenting by emerging technologies for balancing international trade and security.

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Ongoing

Project Duration: August 31, 2005 – ongoing

Point(s) of Contact:

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Project #7 Name: Alternatives to High-Risk Radiological Sources (CNS Occasional Paper #19)

Project Type: Strengthening international nuclear security architecture/Improving nuclear security culture/Best practice or lessons learned exchanges/Emerging and alternative technologies/Improving radiological security

Geographical Focus: Worldwide

Project Description: There is growing global awareness of the need to secure radiological sources in order to prevent terrorists from using such materials in a radiological weapon, such as a “dirty bomb.” The CNS report calls for a move towards permanently reducing this threat by substituting non-isotopic alternatives for these sources in civil uses. As an initial step, the authors proposed a move towards gradual phase-out of cesium chloride use in pre-transfusion blood irradiation on a global scale – a domain where non-isotopic alternatives are considered to be the most viable in the short-term. They urged United States to launch an international initiative involving the phase out of cesium-chloride and other high-risk radiological sources as a “gift basket” for the 2014 Nuclear Security Summit.

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Completed

Project Duration: January 1, 2013 – ongoing

Point(s) of Contact:

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Project #8 Name: Non-Governmental Organization-Government Partnerships in Strengthening Radiological Security

Project Type: Best practice or lessons learned exchanges/Improving radiological security

Geographical Focus: Worldwide

Project Description: In 2016, CNS partnered with a Moldovan regulator to help locate and secure orphan radioactive sources in Moldova by applying new tools to track down information on the use of radioactive sources at legacy sites. “New tools” are tools and methods empowered by new forms of data and analysis enabled by the Internet and social media, such as geospatial analysis, open-source research, social media and network analysis, and online surveys. Beginning with a list of facilities which use or have used radioactive sources, the CNS team researched information on each facility, such as size, type of activity, and operational status. This data formed parameters for social media searches, which were used to populate a

database of current and former employees of the facilities. An online and in-person survey in three languages was designed to systematize data collection and was sent to people in the database as well as facility operators. This project has contributed to the discovery of more than 600 orphan low-level activity sources, as well as two enterprises that use radioactive sources, which regulators were not previously aware of. In 2017 -2019, CNS worked with Georgia, Uzbekistan, and Kyrgyzstan to determine the viability of applying the CNS methodology in there. In 2019, CNS partnered with a Malaysian researcher from Nuklear Malaysia to address concerns regarding source loss and theft, especially during transport. Open-source research was used to study information about Malaysian radiography providers, and geospatial analysis was applied to locate them. The CNS team was able to learn about route planning needs, bottlenecks and other potential issues for source transport and also worked with their Malaysian colleague to develop a survey, to be distributed to industrial radiography operators.

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Ongoing

Project Duration: August 1, 2016 – ongoing

Point(s) of Contact:

Margarita Kalinina-Pohl, Senior Program Manager, Nonproliferation Education Program

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Civil Council on Defense and Security



Type of Organization: Think Tank; Research Institute

Organization Description: The Civil Council on Defense and Security (CCDS) is a non-governmental, non-partisan, not-for-profit organization which supports democratic transformation of Georgia's defense/security sector and Georgia's NATO and EU integration and aims to contribute to regional and global security and peace. To achieve the above, CCDS has been engaged in the following activities: - provides a public debate platform for civil society, government agencies and international stakeholders - supports capacity-building of the government and professional communities in the area of nuclear security and WMD non-proliferation - facilitates civil society's engagement in democratic oversight of Georgia's defense/security sector - raises the public's awareness on security-policy development, global security and international nuclear non-proliferation regime.

Organization Location: Tbilisi, Georgia

For more information, please visit <http://civilcouncil.org/>

Project #1 Name: Nuclear Nonproliferation Education and Research Capacity Building in Georgia (2015-2021)

Project Type: Improving nuclear security culture/Best practice or lessons learned exchanges/Enhancing security at decommissioning sites/Training and education/Improving radiological security/Threat analysis/Security governance/Border security/Legislative and regulatory analysis

Geographical Focus: Worldwide; Europe; Black Sea Region

Project Description: Since 2011 the CCDS, with the support of the Swedish Radiation Safety Authority (SSM), has been leading a program aiming to develop Georgia's nonproliferation policy through building professional capacities of the domestic stakeholders and facilitating dialogue and communication among government, civil society, media, and international community in the field. Among the most important initiatives conducted were publication of a comprehensive report on Georgia's Soviet nuclear legacy and its path to the global nonproliferation regime (2014) and organization of trainings, seminars, and roundtable discussions in the field of international security and nonproliferation involving relevant government agencies, think tanks, experts, civil society groups, NGOs, and media (2011-2021). The CCDS with SSM support also established an annual international event - Tbilisi International Forum for Regional Stability – with the aim to provide a discussion platform on nuclear security challenges and nuclear nonproliferation issues for national, regional, and international stakeholders from governments, academia and think tanks from the Black Sea Region, Europe, and the USA. Three Forums have been held since 2015, and each Forum have been organized in cooperation with Georgia's relevant national state agencies and international donors, among them the MFA, State Security Service, the Ministry of Internal Affairs, Agency on Radiation and Nuclear Safety (Georgia).

Funding Partner(s): During the past 6 years the initiatives have been financially supported by the Swedish Radiation Safety Authority, US Department of State, US Department of Energy, UK Department of Energy and Climate Change and Ministry of Foreign Affairs of Poland.

Other Implementing Partner(s): Swedish Radiation Safety Authority

Project Status: Ongoing

Project Duration: April 1, 2015 – December 31, 2021

Point(s) of Contact:

Tamar Pataraiia, Board Member

Project #2 Name: Nuclear Nonproliferation Education and Research Capacity Building in Georgia 2015-2021

Project Type: Improving nuclear security culture/Best practice or lessons learned exchanges/Training and education

Geographical Focus: Georgia

Project Description: Since 2015 with the support of the Swedish Radiation Safety Authority (SSM) the CCDS has been working on the improvement of the quality of nuclear nonproliferation education in Georgia. Regular platforms of dialogue have been developed between representatives of scientists from education centers located in the capital and regions of Georgia, efforts have been made to strengthen capacities of academicians/professors, and books on nuclear nonproliferation and safeguards have been prepared and published for university students in the Georgian language. The first of such annual cooperation platforms was established in Batumi as Batumi Summer University in cooperation with Batumi Shota Rustaveli University. As a result of the events, cooperation has been established between researchers and academic institutions from Georgian universities, and leading European universities: King's College London and Stockholm University. In addition, researchers from the following Black Sea regional countries have been participated in the events: Ukraine, Moldova, Turkey. Within the same cooperation platform developed among CCDS and various Georgian universities (represented by the department of natural sciences) the National Network of Geiger-Muller Counters (radioactivity measurement) has been created in Georgia and the interactive map of the network has been already published online at the following address: www.nonproliferation.ge

Funding Partner(s): Swedish Radiation Safety Authority

Other Implementing Partner(s): N/A

Project Status: Available; Active; Ongoing

Project Duration: April 1, 2015 – December 31, 2021

Point(s) of Contact:

Tamar Pataraiia, Board Member

Research Group International Politics, University of Antwerp



Type of Organization: Academia

Organization Description: Research Group International Politics, University of Antwerp studies the nuclear security/terrorism problem from an academic point of view. They have a research project on insider threat triggered by nuclear sabotage in one of the Belgian nuclear reactors in 2014.

Organization Location: Antwerp, Belgium

For more information, please visit <https://www.uantwerpen.be/en/research-groups/ip/>

Project #1 Name: Insider Threat

Project Type: Insider threat

Geographical Focus: Worldwide

Project Description: This research analyzes the threat of insider threat (broadly speaking, not only in nuclear sector) and comes up with mitigating mechanisms.

Funding Partner(s): Federal Agency for Nuclear Control, Belgium; Bel V, Belgium; Elia Transmission Belgium; Engie SA; Brussels Airport; G4S Belgium

Other Implementing Partner(s): N/A

Project Status: Ongoing

Project Duration: March 1, 2019 – February 28, 2023

Point(s) of Contact:

Tom Sauer, Professor in the Department of Political Science

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Project #2 Name: Are Terrorists Able to Build the Bomb?

Project Type: Threat analysis

Geographical Focus: Worldwide

Project Description: This research analyzed whether terrorist organizations are able to build the bomb, especially looking at the organizational side.

Funding Partner(s): University of Antwerp

Other Implementing Partner(s): N/A

Project Status: Completed

Project Duration: October 1, 2013 – October 1, 2019

Point(s) of Contact:

Tom Sauer, Professor in the Department of Political Science

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Project #3 Name: Threat of Radiological Terrorism. Case: Hospitals in Belgium

Project Type: Improving nuclear security facility-level implementation/Improving nuclear security culture/
Improving radiological security/Legislative and regulatory analysis

Geographical Focus: Worldwide; Europe

Project Description: This research analyzed the threat of radiological terrorism using the case of hospitals in Belgium.

Funding Partner(s): Federal Agency for Nuclear Control, Belgium

Other Implementing Partner(s): N/A

Project Status: Completed

Project Duration: October 1, 2016 – October 1, 2019

Point(s) of Contact:

Tom Sauer, Professor in the Department of Political Science

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Partnership for a Secure America



Type of Organization: Think Tank

Organization Description: Main Mission: To promote Bipartisanship in U.S. Foreign and National Security Policy.

Organization Location: Washington, D.C., USA

For more information, please visit <https://psaonline.org/>

Project #1 Name: Empowering Congress on Nuclear Security

Project Type: Strengthening international nuclear security architecture/Improving nuclear security culture/Training and education/Security governance/Legislative and regulatory analysis

Geographical Focus: Worldwide; United States

Project Description: This project assessed and made recommendations for improving U.S. Congress' understanding of the nuclear security issue-area.

Funding Partner(s): John D. and Catherine T. MacArthur Foundation

Other Implementing Partner(s): The Arms Control Association

Project Status: Completed

Project Duration: October 18, 2017 – July 10, 2018

Point(s) of Contact:

Dr. Andrew K. Semmel

Project #2 Name: Strengthening the IAEA

Project Type: Strengthening international nuclear security architecture/ Training and education/Security governance/Legislative and regulatory analysis

Geographical Focus: Worldwide

Project Description: This project assessed and made recommendations for financing IAEA Technical Cooperation and Nuclear Security.

Funding Partner(s): Carnegie Corporation of New York

Other Implementing Partner(s): N/A

Project Status: Completed

Project Duration: September 18, 2015 – June 10, 2016

Point(s) of Contact:

Dr. Andrew K. Semmel

Project #3 Name: Empowering Congress on Nuclear Security: Blueprints for a New Generation

Project Type: Improving nuclear security culture/Legislative and regulatory analysis

Geographical Focus: United States

Project Description: The evolving nature of the nuclear material security challenge requires sustained and innovative Congressional leadership. This project sought to inform and influence the thinking of members of Congress and staff on the imperative of safeguarding and eliminating nuclear-weapons usable materials and develop and deliver innovative and practical policy options. It also sought to provide civil society organizations with a better understanding of Congressional attitudes on nuclear security and to identify opportunities to improve engagement. The project will produce an analytical report drawing on a historical analysis of Congress's past work on nuclear security and a survey of the state of Congressional staff knowledge and attitudes on the subject. Both components were informed by consultations with Congressional staff and input from subject matter experts. To draw attention to the important role of bipartisan congressional action, the project also produced a bipartisan, high-level policy statement.

Funding Partner(s): John D. and Catherine T. MacArthur Foundation

Other Implementing Partner(s): The Arms Control Association

Project Status: Completed

Project Duration: July 17, 2017 – March 31, 2019

Point(s) of Contact:

John Sullivan, Director of Programs

sullivan@psaonline.org

Project #4 Name: Congressional Partnership Program

Project Type: Improving nuclear security culture/Emerging and alternative technologies/Training and education/Security governance/Legislative and regulatory analysis

Geographical Focus: Worldwide

Project Description: Since 2009, CPP has brought together Republicans and Democrats working on House and Senate staffs handling foreign affairs and national security issues. They bring staffers together with leading experts to discuss immediate and long-term issues while exploring potential areas of bipartisan cooperation. Through policy seminars, skills training, and networking activities, this unique program aims to cultivate the next generation of foreign policy and security experts to respect differences, build common ground, and achieve U.S. national interests. Past speakers at PSA events have included, General Michael Hayden, Fran Townsend, Secretary Chuck Hagel, Secretary George Shultz, General David Petraeus, Ambassador Thomas Pickering, David Sanger, Ambassador Paula Dobriansky, Michele Flournoy, and many others.

Funding Partner(s): Carnegie Corporation of New York

Other Implementing Partner(s): N/A

Project Status: Ongoing

Project Duration: October 1, 2009 – ongoing

Point(s) of Contact:

John Sullivan, Director of Programs

sullivan@psaonline.org

Project #5 Name: Strengthening the International Atomic Energy Agency through Informed Partnerships

Project Type: Strengthening international nuclear security architecture

Geographical Focus: Worldwide

Project Description: The Partnership for a Secure America, a non-profit, bipartisan, non-governmental organization based in Washington, D.C., was asked by the Carnegie Corporation of New York to explore practical ways for the international non-state donor community, including the private sector, to partner with the IAEA in addressing its dramatic funding deficiencies in two of its substantive programmatic areas: technical cooperation and nuclear security.

Funding Partner(s): Carnegie Corporation of New York

Other Implementing Partner(s): N/A

Project Status: Completed

Project Duration: July 1, 2014 – November 30, 2016

Point(s) of Contact:

John Sullivan, Director of Programs

sullivan@psaonline.org

Henry L. Stimson Center



Type of Organization: Think Tank

Organization Description: The Stimson Center is a nonprofit, nonpartisan organization that promotes international security, shared prosperity & justice through applied research and independent analysis, deep engagement, and policy innovation.

Organization Location: Washington, D.C., USA

For more information, please visit <https://www.stimson.org/>

Project #1 Name: Radiological Source Security Legal Index and Online Tool (RadSecLEXIS)

Project Type: Strengthening transport security/Improving radiological security/Legislative and regulatory analysis

Geographical Focus: Worldwide

Project Description: The Stimson Center is working to update its database of laws, regulations, or their equivalents that contained obligations to secure radioactive sources for every UN Member State to create an online tool (RadSecLEXIS) for States to find practical examples of legal measures related to radiological source security, including in transport and storage. Stimson seeks to raise stakeholder awareness on current national implementation efforts of key IAEA codes and guidance on the security of radiological materials through the use of the RadSecLEXIS online tool, and to foster discussion on how to improve national implementation of key IAEA codes and guidance.

Funding Partner(s): US Department of Energy

Other Implementing Partner(s): Pacific Northwest National Laboratory

Project Status: Active

Project Duration: April 5, 2021 – ongoing

Point(s) of Contact:

Dr. Richard Cupitt, Senior Fellow and Director of Partnerships in Proliferation Prevention Program

rcupitt@stimson.org

Project #2 Name: Front Lines of Nuclear Security

Project Type: Strengthening international nuclear security architecture/Improving nuclear security facility-level implementation/HEU minimization/Strengthening security for nuclear weapons and military nuclear materials/Improving nuclear security culture/Best practice or lessons learned exchanges/Enhancing advanced reactor security/Training and education/Cyber security/Threat analysis/Improving incident response/Security governance

Geographical Focus: Worldwide

Project Description:

The most effective strategy for preventing nuclear terrorism is to ensure strong and sustainable security for all weapons-usable nuclear materials and major nuclear facilities. To accomplish this, nuclear operators must foster organizational cultures that produce well-trained staff—from senior executive leadership to guard forces—dedicated to strong and sustainable nuclear security, and motivated to vigilantly watch for potential threats and vulnerabilities. Despite all the attention to nuclear security in recent years, little is understood about how to actually achieve these goals. The “Front Lines of Nuclear Security” seeks to learn from experience, understand organizational dynamics and challenges, draw lessons for enhanced implementation of nuclear security, and work with governments and operators to implement those lessons.

Funding Partner(s): John D. and Catherine T. MacArthur Foundation

Other Implementing Partner(s): N/A

Project Status: Ongoing

Project Duration: March 1, 2020 – ongoing

Point(s) of Contact:

Nickolas Roth, Senior Fellow and Director of Nuclear Security Program

nroth@stimson.org

Project #3 Name: International Nuclear Security Forum

Project Type: Strengthening international nuclear security architecture/Improving nuclear security facility-level implementation/HEU minimization/Strengthening security for nuclear weapons and military nuclear materials/Strengthening transport security/Improving nuclear security culture/Best practice or lessons learned exchanges/Enhancing advanced reactor security/Emerging and alternative technologies/Training and education/Improving radiological security/Threat analysis/Improving incident response/Security governance/Border security/Legislative and regulatory analysis

Geographical Focus: Worldwide

Project Description: The International Nuclear Security Forum (INSF) is the largest international civil society network dedicated to strengthening nuclear security. The INSF provides a space for a diverse group of international experts to identify, create, and support strategies for reducing nuclear terrorism risks. Members have the opportunity to develop knowledge about critical international nuclear security policy issues through our nuclear security news roundup and member-sponsored activities events; foster innovative

and creative approaches to problem solving and analysis to reinvigorate international attention and support for stronger nuclear security; enhance equity and inclusion in the community by actively incorporating diversity of perspectives to improve the quality and credibility of our nuclear security policy initiatives; cultivate the next generation nuclear security community through active educational outreach and mentorship; encourage leadership by engaging policymakers, international institutions, operators, and civil society in constructive dialogue on nuclear security-related threats and opportunities to address the danger of nuclear terrorism.

Funding Partner(s): Carnegie Corporation of New York

Other Implementing Partner(s): More than 80 member organizations

Project Status: Ongoing

Project Duration: October 1, 2020 – ongoing

Point(s) of Contact:

Nickolas Roth, Senior Fellow and Director of Nuclear Security Program

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Project on Managing the Atom, Harvard Kennedy School Belfer Center



Type of Organization: Academia; Think Tank; Research Institute

Organization Description: The Project on Managing the Atom (MTA) is the Harvard Kennedy School's principal research group on nuclear policy issues. Established in 1996, the purpose of the MTA project is to provide leadership in advancing policy-relevant ideas and analysis for reducing the risks of nuclear and radiological terrorism; stopping nuclear proliferation and reducing nuclear arsenals; lowering the barriers to safe, secure, and peaceful nuclear energy use; and addressing the connections among these problems. Through its fellows program, the MTA project also helps to prepare the next generation of leaders for work on nuclear policy problems. The MTA project provides its research, analysis, and commentary to policy makers, scholars, journalists, and the public.

Organization Location: Cambridge, MA, USA

For more information, please visit <https://www.belfercenter.org/project/managing-atom>

Project #1 Name: Nuclear Security Report

Project Type: Strengthening international nuclear security architecture/Improving nuclear security facility-level implementation/HEU minimization/Strengthening security for nuclear weapons and military nuclear materials/Improving nuclear security culture/Best practice or lessons learned exchanges/Emerging and alternative technologies/Threat analysis/Improving incident response/Security governance

Geographical Focus: Worldwide

Project Description: The report takes stock of successes and challenges across five areas of nuclear security: 1) broad protection of nuclear materials; 2) protection against insider threats; 3) security culture; 4) realistic assessment and testing; 5) consolidation of nuclear materials.

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Active

Project Duration: January 1, 2021 – ongoing

Point(s) of Contact:

Matthew Bunn, James R. Schlesinger Professor of the Practice of Energy, National Security, and Foreign Policy

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Project #2 Name: Nuclear Security In-Depth Studies

Project Type: Strengthening international nuclear security architecture/Improving nuclear security facility-level implementation/HEU minimization/Strengthening security for nuclear weapons and military nuclear materials/Strengthening transport security/Improving nuclear security culture/Training and education/Improving radiological security/Cyber security/Threat analysis/Security governance/Safety-security-safeguards intersection/Legislative and regulatory analysis/Testing and assessment of nuclear security

Geographical Focus: Worldwide

Project Description: Managing the Atom does in-depth analyses of the state of nuclear security in key countries around the world and the state of nuclear security governance. The studies then offer recommendations for next steps to strengthen nuclear security. In addition to the large global studies, we do shorter analyses of particular sub-elements of nuclear security or nuclear security in particular countries.

Funding Partner(s): N/A

Other Implementing Partner(s): Stimson Center

Project Status: Ongoing

Project Duration: January 1, 2000 – ongoing

Point(s) of Contact:

Matthew Bunn, James R. Schlesinger Professor of the Practice of Energy, National Security, and Foreign Policy

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Project #3 Name: Insider Threats

Project Type: Improving nuclear security facility-level implementation/Strengthening security for nuclear weapons and military nuclear materials/Improving nuclear security culture/Training and education

Geographical Focus: Worldwide

Project Description: Managing the Atom continues to examine good practices for protecting against insider threats, building on the 2017 book "Insider Threats."

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Ongoing

Project Duration: January 1, 2014 – ongoing

Point(s) of Contact:

Matthew Bunn, James R. Schlesinger Professor of the Practice of Energy, National Security, and Foreign Policy

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African Centre for Science and International Security (AFRICISIS)



Type of Organization: Think Tank

Organization Description: The mission of the African Centre for Science and International Security (AFRICISIS) is twofold: 1) to help African states comply with international treaties and conventions to prevent the use of WMDs and 2) to promote and develop the safe and peaceful uses of nuclear, biological, and chemical technologies. AFRICISIS is a Public Policy Research, Analysis, and Engagement Organization, registered as a non-governmental organization in Ghana and has operated since 2012. AFRICISIS makes use of its network of global and multi-sectoral partnerships to assess security threats, identify implementation challenges, reflect on regional approaches, and build the human capacities and capabilities vital for governments to understand and make informed choices about security threats of domestic and international concern. AFRICISIS leverages this expertise and maximize capital resources at bilateral, regional, and international levels to complement and fill gaps in the efforts of national governments, their western partners, and international agencies.

Organization Location: Accra, Ghana

For more information, please visit www.africisis.org

Project #1 Name: Africa Regional Workshop on the Amended CPPNM

Project Type: Strengthening international nuclear security architecture/Improving nuclear security culture/ Best practice or lessons learned exchanges/Improving radiological security/Legislative and regulatory analysis

Geographical Focus: Sub-Saharan Africa

Project Description: Objectives: Build broader awareness of the importance of nuclear security in Africa • Strengthen understanding among relevant stakeholders about the amended Convention on the Physical Protection of Nuclear Material (CPPNM) and the review conference; share ideas for how to prepare for the review conference, including how to assess implementation, how to determine whether the treaty is adequate, and how to define "the prevailing situation;" consider which stakeholders should be involved in preparations for the review conference and join the official conference delegation; expand the network among officials, regulators, and operators in the region who are working on nuclear issues.

Funding Partner(s): Nuclear Threat Initiative

Other Implementing Partner(s): Nuclear Threat Initiative

Project Status: Completed

Project Duration: January 15, 2021 – May 31, 2021

Point(s) of Contact:

Hubert Foy, Director & Senior Research Scientist

hfoy@afrcsis.org

Project #2 Name: Nuclear Security Workshop for Scientists, Technicians and Engineers

Project Type: Improving nuclear security culture

Geographical Focus: Sub-Saharan Africa

Project Description: This three-day workshop outlined the risks to nuclear and radiological material and information and examined the practical steps that can be taken to enhance security. The workshop drew from academia, industry, and the regulator. Based on best practice, as well as IAEA guidance, the workshop included interactive lectures, group activities, real-life case studies, and a tabletop exercise.

Funding Partner(s): UK Department for Business, Energy & Industrial Strategy

Other Implementing Partner(s): Centre for Science & Security Studies, KCL

Project Status: Completed

Project Duration: June 3, 2019 – December 27, 2019

Point(s) of Contact:

Hubert Foy, Director & Senior Research Scientist

hfoy@afrcsis.org

Project #3 Name: Project MCs.01/15B Support to Southern African States in Nuclear Safety and Safeguards

Project Type: Strengthening transport security/Best practice or lessons learned exchanges

Geographical Focus: Sub-Saharan Africa

Project Description: This project consisted of research on transport safety and security of uranium ore concentrates toward Sustainable Development of Uranium Mining and Processing Operations in SADC: Malawi, Namibia, Tanzania, Zambia & Zimbabwe.

Funding Partner(s): International Science and Technology Center

Other Implementing Partner(s): N/A

Project Status: Completed

Project Duration: July 26, 2018 – December 30, 2019

Point(s) of Contact:

Hubert Foy, Director & Senior Research Scientist

hfoy@afrcsis.org

Project #4 Name: Promotion and Strengthening of the Nuclear Security Regime: Preparing to Review the CPPNM Amendment

Project Type: Strengthening international nuclear security architecture/Best practice or lessons learned exchanges

Geographical Focus: Sub-Saharan Africa

Project Description: Nuclear Threat Initiative and AFRICSIS organized the workshop “Africa Regional Workshop on the Amended CPPNM” back in April of 2021. The objective of the meeting was facilitating a space for African countries to share experiences, best practices and challenges aimed at the national review of the implementation and adequacy of the A / CPPNM, and – at the same time – discuss how to face challenges.

Funding Partner(s): Nuclear Threat Initiative

Other Implementing Partner(s): Nuclear Threat Initiative

Project Status: Ongoing

Project Duration: October 22, 2021 – December 31, 2021

Point(s) of Contact:

Hubert Foy, Director & Senior Research Scientist

hfoy@afrcisis.org

Institute of Nuclear Materials Management (INMM)



Type of Organization: Professional Association

Organization Description: The Institute of Nuclear Materials Management is dedicated to the safe, secure, and effective stewardship of nuclear materials and related technologies through the advancement of scientific knowledge, technical skills, policy dialogue, professional capabilities, and best practices.

Organization Location: Laurel, New Jersey, USA

For more information, please visit www.inmm.org

Project Name: INMM Annual Meeting and Specialized Events

Project Type: Strengthening international nuclear security architecture/Improving nuclear security facility-level implementation/HEU minimization/Strengthening security for nuclear weapons and military nuclear materials/Strengthening transport security/Improving nuclear security culture/Best practice or lessons learned exchanges/Enhancing advanced reactor security/Enhancing security at decommissioning sites/Emerging and alternative technologies/Training and education/Improving radiological security/Cyber security/Threat analysis/Improving incident response/Security governance/Nuclear forensics/Safety-security-safeguards intersection/Border security/Legislative and regulatory analysis

Geographical Focus: Worldwide

Project Description: The mission of the INMM is to bring together the "nuclear materials management" community, which is a broad term, but currently includes 6 technical divisions. Nuclear Security and Physical Protection is the one most closely aligned with "nuclear security", but Materials Control and Accountability, International Safeguards, Nonproliferation and Arms Control, Facilities and Operations, and Waste Management, Packaging, and Transportation all have very close ties as well. Each of these technical divisions, combined with many cross-cutting committees constitute the organizational structure of the INMM to ensure ongoing dialogue, workshops, conference, etc. to further the best practices of the nuclear materials management community internationally.

Funding Partner(s): N/A

Other Implementing Partner(s): Memoranda of understanding with partner organizations such as IAEA, World Institute of Nuclear Security, World Nuclear Transport Initiative, Brazilian-Argentine Agency for Accounting and Control of Nuclear Materials, and others.

Project Status: Ongoing

Project Duration: October 1, 1960 – ongoing

Point(s) of Contact:

Cary Crawford

Union of Concerned Scientists



Type of Organization: Policy advocacy non-profit

Organization Description: The Union of Concerned Scientists (UCS) is a non-profit, policy advocacy organization that uses rigorous, independent science to solve our planet's most pressing problems. Joining with people across the country, it combines technical analysis and effective advocacy to create innovative, practical solutions for a healthy, safe, and sustainable future.

Organization Location: Cambridge, MA, USA

For more information, please visit <https://www.ucsusa.org/>

Project #1 Name: Nuclear Power Safety

Project Type: Improving nuclear security facility-level implementation/HEU minimization/Strengthening security for nuclear weapons and military nuclear materials/Strengthening transport security/Improving nuclear security culture/Enhancing advanced reactor security/Enhancing security at decommissioning sites/Emerging and alternative technologies/Security governance/Safety-security-safeguards intersection

Geographical Focus: Worldwide; United States

Project Description: Since its founding in 1969, UCS has served as a nuclear power safety and security watchdog. UCS helps ensure that the Nuclear Regulatory Commission enforces its safety regulations—and it tries to prevent them from reducing safety standards and oversight in response to industry pressure. We assess the safety and security of advanced reactor designs, most recently in its report "'Advanced' Isn't Always Better" <https://www.ucsusa.org/about/news/report-advanced-nuclear-reactors-no-better-current-fleet>. It also works on the security of existing power plants in the United States. A successful terrorist attack could kill, sicken, or displace large numbers of people and cause extensive long-term environmental contamination. Protecting nuclear reactors and safeguarding nuclear material should be a central concern for everyone interested in nuclear power.

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Active

Project Duration: March 4, 1969 – ongoing

Point(s) of Contact:

Dr. Edwin Lyman, Director of the Nuclear Power Safety Project



Type of Organization: Implementer

Organization Description: CRDF Global is an independent nonprofit organization founded in 1995 in response to the collapse of the Soviet Union and the threat of large-scale proliferation of weapons technology from the region. With support authorized by the Nunn-Lugar Act of 1991 and the Freedom Support Act of 1992, as well private foundation contributions, CRDF Global embarked on bolstering the global scientific community and fostering alternatives to weapons research. In the past 25 years, its work has expanded to address ever-changing global concerns, but its commitment to ensuring the success of its partners remains the same. It is a leading provider of flexible logistical support, program design and management, and strategic capacity building programs in the areas of higher education, CBRNE security and nonproliferation, border security, cybersecurity, global health, technology entrepreneurship, and international professional exchanges. With offices in Arlington, VA, U.S.; Kyiv, Ukraine; Almaty, Kazakhstan; and Amman, Jordan, CRDF Global's diverse staff and networks of local community and government stakeholders deliver tailored programs that meet specific regional needs in over 100 countries across the globe.

Organization Location: Arlington, VA, USA

For more information, please visit <https://www.crdfglobal.org/>

Project #1 Name: Nuclear Security Education: Risk Analysis for Nuclear and Radioactive Material

Project Type: Improving nuclear security facility-level implementation/Improving nuclear security culture/ Training and education/Improving radiological security/Threat analysis

Geographical Focus: South Asia

Project Description: Dr. Alpana Goel at Amity University in India led a risk analysis project at Amity that handle nuclear and radiological material to gauge their vulnerability to insider threats, outside infiltration, or a collusion of both. The project used an adversary sequence diagram to evaluate threat pathways and tested insider threat mitigation strategies. At the conclusion of the project, the research team published the manuscript on risk analysis in a journal, present the findings to an International Nuclear Security Education Network (INSEN) meeting, and developed a generalized version of the risk analysis model for use in other institutes in India.

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Completed

Project Duration: July 1, 2018 – August 1, 2019

Point(s) of Contact:

Dr. Nilsu Goren

Project #2 Name: Workshop on Sustainability of Nuclear Security Culture: Methodologies for Implementation of Human Reliability Program in Stakeholders' Institutions in Nigeria

Project Type: Improving nuclear security facility-level implementation/Improving nuclear security culture/ Best practice or lessons learned exchanges/Training and education

Geographical Focus: Sub-Saharan Africa

Project Description: Ahmadu Bello University hosted a three-day workshop on the rudiments of nuclear security culture with a focus on insider threats and mitigation via HRP implementation in the relevant stakeholders' institution in Nigeria. The main goal of the workshop was to provide participants with information on methodologies for implementation and sustainability of nuclear security culture within an organization. This was achieved via lectures and exercises delivered/facilitated by subject matter experts on operationalizing nuclear security culture best practices. Specifically, participants were taught how to develop standard operating procedures and vetting methodologies. Participants were also taught how to integrate physical security measures into HRP for the sustenance of nuclear security culture in their respective organizations as a way of enhancing safety and security within the organizations.

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Completed

Project Duration: February 1, 2019 – August 22, 2019

Point(s) of Contact:

Dr. Nilsu Goren

Project #3 Name: Nuclear Security and Nonproliferation Workshop

Project Type: Improving nuclear security facility-level implementation/Strengthening security for nuclear weapons and military nuclear materials/Improving nuclear security culture/Best practice or lessons learned exchanges/Training and education

Geographical Focus: South Asia

Project Description: CRDF Global organized a three-day workshop on Nuclear Security and Nonproliferation for selected students, academics, and early-career professionals in nonproliferation fields from South Asia. This workshop took place in Putrajaya, Malaysia on November 18-20, 2019. The workshop presented participants with critical issues of nuclear security and provide analysis of how to mitigate the risks of insider threats. The workshop also covered topics such as IAEA safeguards, nuclear terrorism, and disarmament. Finally, this training provided participants with a sound understanding of the current nonproliferation regime.

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Completed

Project Duration: September 11, 2019 – November 20, 2019

Point(s) of Contact:

Dr. Nilsu Goren

Project #4 Name: Nuclear Security and Non-proliferation Webinar Series for South Asia

Project Type: Improving nuclear security facility-level implementation/Improving nuclear security culture/
Best practice or lessons learned exchanges/Training and education/Cyber security

Geographical Focus: South Asia

Project Description: CRDF Global collaborated with the World Institute of Nuclear Security to virtually engage participants from South Asia with an understanding of international nuclear security concepts and continued to engage them in a cost-effective and safe manner during this difficult time of COVID-19.

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Completed

Project Duration: June 5, 2020 – August 20, 2020

Point(s) of Contact:

Dr. Nilsu Goren

Project #5 Name: Nuclear Security Research Grants to Publish on the Henry L. Stimson Center's South Asian Voices

Project Type: Improving nuclear security culture/Best practice or lessons learned exchanges/Emerging and alternative technologies/Cyber security

Geographical Focus: South Asia

Project Description: CRDF Global partnered with the Stimson Center to provide eight grants to emerging policy analysts, researchers, academicians, and other relevant stakeholders from South Asia to develop research papers on nuclear security and publish them on Stimson's South Asian Voices, an online policy platform featuring analysis on the subcontinent (<https://southasianvoices.org/>). These eight grants supported awardees' work to contribute to regional nuclear security. Through the publication series, grantees engaged in innovative analysis on nuclear security topics critical to the region, including safety and security of personnel and materials, regional tools for nuclear security cooperation, cybersecurity, and other emerging technologies in the civilian nuclear sector, as well as advanced nuclear reactor designs such as small modular reactors, among others. Stimson conducted two closed-door workshops as a Capstone after the research was published.

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Ongoing

Project Duration: September 1, 2020

Point(s) of Contact:

Dr. Nilsu Goren

Nuclear Threat Initiative



Type of Organization: Non-Governmental Organization

Organization Description: The Nuclear Threat Initiative (NTI) protects lives, the environment, and our quality of life now and for future generations. Every day, we work to prevent catastrophic attacks with weapons of mass destruction and disruption—nuclear, biological, radiological, chemical, and cyber.

Organization Location: Washington, D.C., USA

For more information, please visit <https://www.nti.org/>

Project #1 Name: Cyber-Nuclear Forum

Project Type: Cyber security

Geographical Focus: Worldwide

Project Description: The Cyber-Nuclear Forum works with key nuclear industry cyber experts. NTI has developed the Cyber-Nuclear Forum to strengthen protection of civilian nuclear facilities from cyberattacks.

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Active; Ongoing

Project Duration: January 1, 2019 – ongoing

Point(s) of Contact:

Erin Dumbacher, Senior Program Officer

Project #2 Name: Cyber-Nuclear Weapons Study Group

Project Type: Cyber security

Geographical Focus: Worldwide

Project Description: NTI brought together high-level former senior military and government officials, policy experts, and cybersecurity experts to form a Cyber-Nuclear Weapons Study Group. The group examined the implications of cyber threats to nuclear weapons and related systems and has developed a set of options for our nuclear policies, postures, and doctrines that will reduce risks.

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Completed

Project Duration: January 1, 2019 – ongoing

Point(s) of Contact:

Erin Dumbacher, Senior Program Officer

Project #3 Name: Dialogue on the Future of U.S.-Russia Nuclear Cooperation

Project Type: Enhancing US-Russia nuclear cooperation

Geographical Focus: Russia

Project Description: NTI has partnered with the Russian Center for Energy and Security Studies (CENESS) to launch a high-level dialogue on the future of US-Russia nuclear cooperation.

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Active

Project Duration: January 1, 2015 – ongoing

Point(s) of Contact:

Leon Ratz, Senior Program Officer

Project #4 Name: Engaging China on Nuclear Security

Project Type: Improving US-China cooperation on nuclear security

Geographical Focus: China

Project Description: China plays a pivotal role in global security — cooperation with China will be essential for further global arms reductions, to gain international confidence in the security of nuclear materials, and to develop approaches to technical topics such as nuclear forensics and arms control verification. NTI has been working to strengthen nuclear security engagement between China, the U.S. and others.

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Active

Project Duration: July 1, 2016 – ongoing

Point(s) of Contact:

Jessica Bufford, Program Officer

Project #5 Name: Gender Champions in Nuclear Policy

Project Type: Diversity, equity, and inclusion

Geographical Focus: Worldwide

Project Description: Gender Champions in Nuclear Policy (GCNP) is a leadership network in nuclear policy committed to breaking down gender barriers and making gender equality a working reality.

Funding Partner(s): Ploughshares Foundation

Other Implementing Partner(s): N/A

Project Status: Active

Project Duration: November 22, 2018 – ongoing

Point(s) of Contact:

Jack Brosnan, Program Officer

Project #6 Name: Global Dialogue on Nuclear Security Priorities

Project Type: Strengthening international nuclear security architecture

Geographical Focus: Worldwide

Project Description: This project consists of an international, cross-sector dialogue among leading government officials, experts, nuclear security practitioners, and other stakeholders to help shape the Nuclear Security Summit process and strengthen global nuclear materials security.

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Active

Project Duration: January 1, 2012 – ongoing

Point(s) of Contact:

Scott Roecker, Senior Director

Project #7 Name: HEU Minimization

Project Type: HEU minimization

Geographical Focus: Worldwide

Project Description: NTI supports the phased elimination of civil uses for HEU and is working to build an international consensus on reducing dependence on HEU for peaceful activities.

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Available

Project Duration: January 18, 2001 – ongoing

Point(s) of Contact:

Jessica Bufford, Program Officer

Project #8 Name: Nuclear Security Index

Project Type: Strengthening international nuclear security architecture

Geographical Focus: Worldwide

Project Description: The NTI Nuclear Security Index is a first-of-its-kind public benchmarking project of nuclear materials security conditions on a country-by-country basis.

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Ongoing

Project Duration: January 1, 2012 – ongoing

Point(s) of Contact:

Jack Brosnan, Program Officer

Project #9 Name: Preventing a Dirty Bomb

Project Type: Emerging and alternative technologies/Improving radiological security

Geographical Focus: Worldwide

Project Description: Cesium-137 is an isotope used medical equipment such as blood irradiators. However, it is also the most dangerous of all radioactive isotopes. If used in a dirty bomb, the highly dispersible powder would contaminate an area for years, costing billions of dollars in evacuation, demolition and clean-up. NTI works with hospitals, industry and governments to raise awareness about this threat and the availability of safe and effective alternative technologies to cesium-137 blood irradiators.

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Active; Ongoing

Project Duration: January 1, 2015 – ongoing

Point(s) of Contact:

Jessica Bufford, Program Officer

Project #10 Name: Voices of Nuclear Security

Project Type: Broadening the nuclear security narrative

Geographical Focus: Worldwide

Project Description: Around the world, every day, individuals are working to build a safer world. Voices of Nuclear Security highlights their experiences and reflections on nuclear security.

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Active; Ongoing

Project Duration: January 1, 2019 – ongoing

Point(s) of Contact:

Jessica Bufford, Program Officer

World Institute of Nuclear Security (WINS)



Type of Organization: International Non-Governmental Organization

Organization Description: WINS is a member based international non-governmental organization that works on a non-profit basis for the global improvement of nuclear security in the global and public interest. WINS' Vision is that "all nuclear and other radioactive materials and facilities are effectively secured by demonstrably competent professionals applying best practice to achieve operational excellence". WINS' Mission is "to be the leader in knowledge exchange, professional development and certification for nuclear security management". WINS strives to be recognized globally as a trusted partner that delivers on its commitments so that all parts of the world benefit from measurable improvements in the security of all nuclear and other radioactive material. WINS' overarching goal is to be of service to the entire world and to address all security issues related to nuclear and other radioactive facilities, activities, and materials, whether under or outside of regulatory control. WINS works on the basis of gender parity by design, diversity, and inclusion in all of its programmes.

Organization Location: Vienna, Austria

For more information, please visit www.wins.org

Project #1 Name: WINS Gender Programme "Gender Parity by Design"

Project Type: Strengthening nuclear security by ensuring gender parity

Geographical Focus: Worldwide

Project Description: WINS Gender Programme is designed to address the under representation of women in nuclear security. This programme capitalizes on WINS role in certification and professional development in nuclear security. The main objective of the programme is to achieve an increase in the representation of women to 40% in all of WINS programmes. WINS' goal is also to contribute to changing the face of the profession permanently. WINS intends to do this by promoting the concept of "gender parity by design". Like security by design, gender parity cannot be an afterthought or an add on it must be part of the design of an organization, programme or project to strengthen nuclear security including nuclear security culture.

Funding Partner(s): Government of Canada

Other Implementing Partner(s): N/A

Project Status: Active

Project Duration: June 30, 2018 – ongoing

Point(s) of Contact:

Rhonda Evans, Head of Programme Development

Project #2 Name: WINS Best Practice Guide Series

Project Type: Best Practices for Nuclear Security and Radioactive Source Security

Geographical Focus: Worldwide

Project Description: WINS Best Practice Guides are an essential set of documents for nuclear security professionals covering 5 main topic areas: Nuclear Security Programme Organization; Managing and Communicating Security Information; People in Nuclear Security; Implementing Security Measures; Security of Radioactive Sources.

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Ongoing

Project Duration: June 30, 2008 – ongoing

Point(s) of Contact:

Pierre Legoux, Head of Programme Implementation

Project #3 Name: WINS Academy Programme

Project Type: Training and education

Geographical Focus: Worldwide

Project Description: The WINS Academy Programme is a certification programme for professionals involved in nuclear security and radioactive source security. The Programme results in the designation of Certified Nuclear Security Professional (CNSP) or Certified Radioactive Source Security Professional (CRSP).

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Ongoing

Project Duration: June 30, 2014 – ongoing

Point(s) of Contact:

Roland Fletcher, Academy and Communications Manager

Project #4 Name: WINS Special Report Series

Project Type: Best practice or lessons learned exchanges

Geographical Focus: Worldwide

Project Description: WINS publishes special reports from time to time on areas of key interest for nuclear security including: Advanced Technologies and Evolving Threat Capabilities; Nuclear Security Issues for Advanced Reactors.

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Ongoing

Project Duration: June 30, 2008 – ongoing

Point(s) of Contact:

Pierre Legoux, Head of Programme Implementation

Project #5 Name: Benchmarking and Evaluation Services

Project Type: Strengthening international nuclear security architecture

Geographical Focus: Worldwide

Project Description: WINS offers methodologies for self-assessment and peer evaluation in a variety of areas.

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Ongoing

Project Duration: June 30, 2008 – ongoing

Point(s) of Contact:

Lars van Dassen, Executive Director

Project #6 Name: WINS Membership

Project Type: Strengthening international nuclear security architecture

Geographical Focus: Worldwide

Project Description: WINS is a member-based organization that encourages Members to join and become a part of a dynamic international network of nuclear security professionals.

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Ongoing

Project Duration: June 30, 2008 – ongoing

Point(s) of Contact:

Whitney Katherine Isaacs, WINS Academy Assistant

Project #7 Name: Sustaining Human Resources for Prevention, Detection and Response to Material Outside of Regulatory Control (MORC)

Project Type: Strengthening Human Resource Development for MORC

Geographical Focus: Worldwide

Project Description: Even though the international framework and supporting initiatives for addressing MORC-related incidents have reached maturity in recent years, the national implementation of these frameworks is highly uneven and depends on local conditions in individual states. Recent studies have shown that while in many cases the urgent needs in terms of detection and other equipment have been addressed by states, with assistance from aforementioned organizations and donors such as the US and the EU, there is a persistent need for competent personnel to ensure that the large-scale investment in equipment is sustainable and supported by a suitable infrastructure. This project will undertake a systematic examination of the competency needs of the various personnel involved in MORC at the national level; it will examine what exists and what needs to be developed to increase the professionalism and enhance the competence of these key personnel on a global basis. This project will then make recommendations on how to further develop sustainable certification and training programmes for personnel in this field.

Funding Partner(s): Government of Germany

Other Implementing Partner(s): Stockholm International Peace Research Institute (SIPRI)

Project Status: Active

Project Duration: July 1, 2021 – June 30, 2022

Point(s) of Contact:

Rhonda Evans, Head of Programme Development

Alpana Goel, Amity University

Type of Organization: Academia; Consultant/Independent Contractor

Expert Biography: Alpana Goel is working as director of Academic Institution Nuclear Science and Technology under the aegis of Amity University Uttar Pradesh, India. Dr. Goel has a Ph.D. in Nuclear Physics from IIT Roorkee. She joined INSEN and the IAEA in 2015. Since then, Dr. Goel has closely worked with the IAEA. She worked as Vice Chair and Chair of WG-II. She has also been nominated as an Indian ambassador of WINS since 2017. She is on the teaching faculty of Nuclear Security to Amity Students. She and her colleagues have published a number of research papers on nuclear security. She worked under a project with CRDF on risk analysis for an Indian (Amity) nuclear facility.

Organization Location: Noida, India

For more information, please visit <http://ainst.amity.edu/?p=226>

Project #1 Name: Establishment of Nuclear Security Labs and Remote Lab in Collaboration With TAMU/DTRA, US

Project Type: Improving nuclear security facility-level implementation/Best practice or lessons learned exchanges/Training and education

Geographical Focus: Worldwide

Project Description: Amity University Uttar Pradesh in collaboration with the Centre for Nuclear Security Science & Policy Initiative (NSSPI) at Texas A&M University (TAMU) USA plans to build a state-of-the-art laboratory for education and professional development in radiation detection and nuclear security sciences. TAMU funds the majority of this effort with strong support from Amity University by coordinating logistics and laboratory space renovation. The Defense Threat Reduction Agency, USA, and Oak Ridge National Laboratory, USA are respectively the primary and secondary sponsors for TAMU. The laboratory is meant to meet multiple objectives: (1) equip faculty members at Amity Institute of Nuclear Science and Technology (AINST) as well as the Department of Physics to enhance the education of their undergraduate and graduate students, thereby supporting the increased enrolment; (2) continue educational collaborations between TAMU and Amity University in nuclear science and engineering subject area; and (3) AINST to act as a nodal center for the development of nuclear science and engineering faculty members, students, and professionals from other educational, research, and service institutions in India and abroad.

Funding Partner(s): Texas A&M University

Other Implementing Partner(s): Defense Threat Reduction Agency; Oak Ridge National Laboratory

Project Status: Ongoing

Project Duration: August 22, 2019 – ongoing

Points of Contact:

Dr. Alpana Goel, Director of Amity Institute of Nuclear Science and Technology

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Dr. Sunil S. Chirayath, Associate Professor of Nuclear Engineering and Director of the Center for Nuclear Security Science and Policy Initiatives, Texas A&M University

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Igor Khripunov, Stimson Center

Type of Organization: Think Tank; Research Institute; Consultant/Independent Contractor

Expert Biography: Dr Khripunov's work on nuclear security culture focuses on concept, methodology, self-assessment, enhancement, legal and regulatory framework, and application of this methodology to improve human reliability, address insider threats, and adjust to various segments like radioactive sources, transportation, research reactors, etc. Dr Khripunov is under contract with Oxford University Press for a chapter in the forthcoming book on nuclear security and with Springer Publisher for a monograph "Human Factor in Nuclear Security".

Organization Location: Athens, GA, USA

For more information, please visit <https://www.stimson.org/ppl/igor-khripunov/>

Project #1 Name: Nuclear Security Culture: Concept, Application and Promotion

Project Type: Improving nuclear security facility-level implementation/Improving nuclear security culture/Training and education/Improving radiological security/Safety-security-safeguards intersection

Geographical Focus: Worldwide

Project Description: This project will assist the IAEA Division of Nuclear Security in improving its outreach, training and international cooperation regarding nuclear security culture as well as promotion of its methodology among other domains and activities. The project will explore the interface between safety and security culture and developing modalities for their harmonization.

Funding/Donor Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Proposal

Project Duration: January 1, 2022 – December 1, 2022

Point of Contact:

Dr. Igor Khripunov, Stimson Center Nonresident Fellow
ikhripunov@stimson.org

Trevor Findlay, University of Melbourne School of Social and Political Sciences

Type of Organization: Academia; Think Tank; Consultant/Independent Contractor

Expert Biography: Dr. Trevor Findlay is a Principal Fellow at the School of Social and Political Sciences at the University of Melbourne. Dr. Findlay has a BA (Hons) degree in Political Science from the University of Melbourne and a Masters' degree and PhD in international relations from the Australian National University (ANU). His expertise is in global nuclear governance, with a particular focus on nuclear nonproliferation, nuclear safeguards and nuclear security and the role of the IAEA.

Organization Location: Melbourne, Australia

Project Name: The Oxford University Handbook of Nuclear Security

Project Type: Strengthening international nuclear security architecture

Geographical Focus: Worldwide

Project Description: The project was contribution of a chapter on the role of the IAEA in international security.

Funding Partner(s): N/A

Other Implementing Partner(s): The handbook is being compiled and edited by the Centre for Science and Security Studies, King's College London

Project Status: Ongoing

Project Duration: March 1, 2021 – March 1, 2022

Point(s) of Contact:

For chapter: Dr. Trevor Findlay, Principal Fellow at the School of Social and Political Sciences
trevor.findlay@unimelb.edu.au

For project: Dr. Sarah Tzinieris, Research Fellow in the King's College London Department of War Studies
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