

RESOURCE**Trade & Technology**

Partnerships in Proliferation
Prevention Program

Nuclear Security Program

International Nuclear Security Forum



INSF
a project of the
Stimson Center

AREA

General Employee Radiological
Training or Radiological Worker
Training Required for Unescorted
Access

CAUTION**UNDERGROUND
RADIOACTIVE
MATERIAL AREA**

General Employee Radiological Training
or Radiological Worker Training Required
for Unescorted Access.

This Area Contains Underground Radioactive
Material. Contact Radiological Control Prior
to Any Excavation.

Catalogue of Civil Society Activities Strengthening Nuclear Security

November 2023

Catalogue of Civil Society Activities Strengthening Nuclear Security

Civil society is essential to strengthening nuclear security and nonproliferation. This catalogue is a uniform collection of projects led by civil society organizations that outlines the ways in which these groups contribute to nuclear security. With this resource, international organizations, states, and industry will have a better understanding of the myriad ways in which civil society contributes to nuclear security.

The International Nuclear Security Forum and the Henry L. Stimson Center are pleased to present a 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, 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, 46 projects were contributed by three individual experts and 14 organizations, the majority of which were think tanks and research or academic institutes. These civil society organizations were spread across four continents, with eight organizations based in North America, two in Western Europe, one on Sub-Saharan Africa, one in the Middle East, one in South America, and one in Europe.

The median project duration, as of the time of submission, was approximately 1.5 years, and the geographic focus was diverse, with 27 described as “worldwide,” seven focusing on the Middle East/North Africa, and four on the Eastern Europe/Black Sea region. 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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Academia/Think Tanks/Research Institutes

AFRICISIS—African Center for Science and International Security

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 in order to prevent the use of Weapons of Mass Destruction (WMD) 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. We leverage this expertise and maximize capital resources at bilateral, sub-regional, and regional levels to complement and fill gaps in the efforts of national governments, their western partners, and international agencies.

For more information, please visit africisis.org

Organization Location

Accra, Ghana and Yaoundé, Cameroon

PROJECT 1 CPACC FY 22/23: AFRICISIS—Towards Universalization of the Convention for the Physical Protection of Nuclear Material (CPPNM) and its Amendment (CPPNM/A)

Project Type

Strengthening international nuclear security architecture

Geographical Focus

Sub-Saharan Africa

Project Description

The project purpose is to run a capacity-building workshop for members of parliament and senior government officials from 25 States not yet party to CPPNM and CPPNM/A and produce a CPPNM/A universalization toolkit and adherence pack so that delegates have an increased understanding of the international legal framework for nuclear security and have access to adherence guidance documents to proactively and independently support their countries' process to adhere (ratify or accede) to the CPPNM, CPPNM/A and ICSANT.

For more information, please visit africisis.org

Funding Partner(s)

N/A

Other Implementing Partner(s)

N/A

Project Status

Completed

Project Duration

0 – 6 months

Point(s) of Contact

Hubert Foy, project manager, hfoy@africisis.org, +233554603605

PROJECT 2 Strengthening Global Nuclear Security: Promoting Universalization of the CPPNM and its Amendment (CPPNM/A) in Africa: Phase 2**Project Type**

Strengthening international nuclear security architecture

Geographical Focus

Sub-Saharan Africa

Project Description

The overarching objective of this comprehensive approach is to mitigate the threat of nuclear and radiological terrorism and strengthen the criminal justice systems of African countries. Importantly, this project builds upon the ongoing AFRICISIS project CPACC FY 22/23: AFRICISIS — Towards Universalization of the CPPNM as Amended, which is currently funded by the UK government. By leveraging the existing project, this initiative will further contribute to the collective efforts of African countries in adhering to the Amended CPPNM and enhancing nuclear security in the region. The project's purpose is to support African countries in adhering to and implementing the Amended CPPNM. This will be achieved through

interconnected activities: (1) running an in-person national stakeholder mapping workshop to identify and analyze stakeholders' interests, roles, and responsibilities, as well as their potential contributions and challenges in adhering to and implementing the Amended Convention. In addition, this will strengthen our team's understanding of treaty-making architecture, processes and challenges associated with each participating country's adherence and implementation effort; (2) hosting a regional capacity-building webinar to enhance the understanding of requirements, implementation and adherence to the provisions of the CPPNM/A among participating countries, and encourage and stimulate action; (3) conducting in-country targeted awareness-raising and sensitization webinars (briefings for senior officials, policymakers, legislators, chair of nuclear security committee or national security council) to promote understanding, awareness, and encourage commitment to support and move forward CPPNM/A adherence process among relevant stakeholders (technical/policy). This comprehensive approach aims to secure political buy-in from and build a core group of national champions among the relevant national stakeholders necessary to move the adherence agenda forward and to ultimately join the CPPNM/A.

Funding Partner(s)

U.K. Foreign, Commonwealth & Development Office

Other Implementing Partner(s)

N/A

Project Status

Approved

Project Duration

6 months – 1 year

Point(s) of Contact

Hubert Foy, hfoy@afrcsis.org, +233554603605

Arab Institute for Security Studies (ACSIS)

Type of Organization

Think Tank

Organization Description

ACSIS is the host of the Nuclear Forum, the only specialized forum in the Arab world that promotes policy and public dialogue in the nuclear, chemical and biological fields. The Nuclear Forum contributes to promoting written literature on nuclear security, nuclear non-proliferation and non-conventional capabilities. The Nuclear Forum seeks to promote publications in this important field as well as providing decision-makers and researchers with reliable information and credible analysis on nuclear security, weapons of mass destruction and delivery vehicles. The Nuclear Forum was launched to promote

authentic research and publication specifically on nuclear issues in addition to chemical and biological issues. The forum hosts a spectrum of opinions and important academic contributions. It aims to establish a community of scholars with the intention of sharing information, requesting input, establishing coordination and highlighting challenges. The Nuclear Forum is accessible by policy-makers, researchers, academia and the overall public in the Arab Region.

For more information, please visit acsis.org/NF

Organization Location

Amman - Jordan

PROJECT A Nuclear Weapons Free Zone in the Middle East, Discussing Zone Modalities and Verification

Project Type

Emerging and alternative technologies

Geographical Focus

Middle East/North Africa

Project Description

A NWFZ in the Middle East is still unattainable. Our analysis indicates that reaching consensus over verification issues will be more challenging than the establishment of the zone. The project seeks to implement nuclear security principles in the verification of a future zone.

Funding Partner(s)

N/A

Other Implementing Partner(s)

Middle East Association of Non Proliferation and Security

Project Status

Recently Started

Project Duration

1.5 – 2 years

Point(s) of Contact

Ziad Abdul Jaleel, Coordinator

Henry L. Stimson Center

Type of Organization

Think Tank

Organization Description

The Stimson Center promotes international security and shared prosperity through applied research and independent analysis, global engagement, and policy innovation.

For more information, please visit stimson.org

Organization Location

Washington, D.C., USA

PROJECT 1 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 UN Member State laws, regulations, or their equivalents that contain obligations to secure radioactive sources and 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)

U.S. National Nuclear Security Administration, Office of Radiological Security

Other Implementing Partner(s)

Project Status

Recurring Activity/Engagement

Project Duration

1.5 – 2 years

Point(s) of Contact

Christina McAllister, Senior Fellow & Director, Partnerships in Proliferation Prevention Program, cmcallister@stimson.org

PROJECT 2 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

Completed

Project Duration

1.5 – 2 years

Point(s) of Contact

Christina McAllister, Senior Fellow & Director, Partnerships in Proliferation Prevention, cmcallister@stimson.org

PROJECT 3 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

Long Term/Multi-Year Activity/Engagement

Project Duration

2.5 – 3 years

Point(s) of Contact

Christina McAllister, Senior Fellow & Director, Partnerships in Proliferation Prevention; Director, International Nuclear Security Forum, cmcallister@stimson.org

PROJECT 4 SLAFKA**Project Type**

Emerging and alternative technologies/Nuclear Material Accounting and Control

Geographical Focus

Worldwide; Europe

Project Description

SLAFKA is a first-of-its kind prototype that uses distributed ledger technology (DLT) for tracking nuclear material at the national level. Given many challenges in nuclear material accounting are fundamentally problems of data reconciliation, matching, and data integrity the prototype demonstrates how DLT can be used to validate data trustworthiness and increase efficiencies in reporting and information sharing. SLAFKA represents a first step in investigating and testing the functionality, usability, and acceptability of DLT for nuclear material accounting and control.

Funding Partner(s)

Finland's Radiation and Nuclear Safety Authority (STUK)

Other Implementing Partner(s)

University of New South Wales in Sydney, Australia

Project Status

Completed

Project Duration

2 – 2.5 years

Point(s) of Contact

Cindy Vestergaard, Nonresident Fellow, cvestergaard@stimson.org

PROJECT 5 Distributed Ledger Technology and International Security Regimes**Project Type**

Strengthening transport security/Best practice or lessons learned exchanges/ Emerging and alternative technologies/Cyber security/Safety-security-safeguards intersection/Legislative and regulatory analysis/ Spent Nuclear Fuel Management

Geographical Focus

Worldwide

Project Description

Distributed ledger technology offers a novel technological solution for data verification and has the potential to build a “trust machine” among parties. This project is spearheading applied research to identify ways DLT can benefit nonproliferation and international security—a first in the field. Potential outcomes for the application of DLT to international security regimes could be significant for improving the timeliness for detecting diversion, unauthorized access to data and material, and loss or theft of dual-use materials and technology.

Funding Partner(s)

Carnegie Corporation of New York, SK Impact

Other Implementing Partner(s)

N/A

Project Status

Active Implementation

Project Duration

1 – 1.5 years

Point(s) of Contact

Christina McAllister, Senior Fellow & Director, Partnerships in Proliferation Prevention Program,
cmcallister@stimson.org

PROJECT 6 Structural Bias in Global Nuclear Security**Project Type**

Strengthening security for nuclear weapons and military nuclear materials/Improving nuclear security culture/Best practice or lessons learned exchanges/Threat analysis/Security governance/

Geographical Focus

Worldwide; North America

Project Description

This project explores how different facets of nuclear security and the nuclear field more broadly are vulnerable to structural biases that inform the field, and how public and private nuclear facilities around the world can work to mitigate these biases to create more accessible, innovative, and secure operating environments and make the world a safer place.

Funding Partner(s)

U.S. National Nuclear Security Administration, Office of International Nuclear Security's Nuclear Security Women initiative, John D. and Catherine T. MacArthur Foundation

Other Implementing Partner(s)

N/A

Project Status

Active Implementation

Project Duration

2 – 2.5 years

Point(s) of Contact

Christina McAllister, Senior Fellow & Director, Partnerships in Proliferation Prevention Program,
cmcallister@stimson.org

Hudson Institute Center for Political-Military Analysis

Type of Organization

Think Tank

Organization Description

Hudson Institute's Center for Political-Military Affairs analyzes how diplomacy, the military, and other forces shape 21st century international security developments.

For more information, please visit [hudson.org](https://www.hudson.org)

Organization Location

Washington, DC

PROJECT Strengthening International Cooperation in Managing China-Related Proliferation Challenges

Project Type

Strengthening international nuclear security architecture

Geographical Focus

Worldwide

Project Description

Cooperation between China and Western governments regarding nonproliferation challenges from Iran, North Korea, and non-state actors is declining. The goal of this study is to assess how to improve China's implementation of its non-proliferation commitments to better uphold, preserve, and strengthen the rules-based international system.

Funding Partner(s)

The Counter-Proliferation and Arms Control Centre, part of the UK Foreign, Commonwealth and Development Office

Other Implementing Partner(s)

N/A

Project Status

Active Implementation

Project Duration

6 months – 1 year

Point(s) of Contact

Richard Weitz, PI

NPSGLOBAL FOUNDATION

Type of Organization

Think tank

Organization Description

A focal point in Latin America on global and regional security issues. We have worked over the last 16 years to bring our voice to issues of global concern. Our fields of action range from political to technical issues. We have been delivering for the Program in International Security, Disarmament, and Non-Proliferation for the last 14 years (post-graduate level). Our main fields: nuclear security, nuclear diplomacy, nuclear disarmament verification (running the Latin American Hub on NDV), bio security, prevention of terrorism with WMD, and more.

For more information, please visit npsglobal.org

Organization Location

Buenos Aires, Argentina

PROJECT Latin American Research and Innovation Hub in NDV

Project Type

Strengthening security for nuclear weapons and military nuclear materials

Geographical Focus

Latin America/Caribbean

Project Description

We are shaping a regional expert hub or centre of excellence with members all over the region to bring their expertise to the debates in nuclear disarmament verification, including technical, diplomatic, political and legal aspects. One of the project's goals is to support the United Nations General Assembly efforts on the matter as well as to interact with other joint initiatives involving NWS and NNWS. It is important to notice that warhead dismantlement and disposal involve high nuclear security and proliferation risks that have to be adequately addressed.

Funding Partner(s)

VERTIC, Norwegian MFA

Other Implementing Partner(s)

N/A

Project Status

Recently Started

Project Duration

1.5 – 2 years

Point(s) of Contact

Irma Arguello

Nuclear Threat Initiative

Type of Organization

Non-Governmental Organization

Organization Description

The Nuclear Threat Initiative is a nonprofit, nonpartisan global security organization focused on reducing nuclear and biological threats imperiling humanity.

For more information, please visit nti.org

Organization Location

Washington, DC

PROJECT 1 Global Dialogue on Nuclear Security Priorities

Project Type

Strengthening international nuclear security architecture

Geographical Focus

Worldwide

Project Description

NTI's Global Dialogue on Nuclear Security Priorities convenes senior government officials from countries around the world, representatives from international organizations like the International Atomic Energy Agency (IAEA), leading non-government experts, and nuclear industry professionals to strengthen the international nuclear security architecture and explore critical questions: What are the most important steps for effective nuclear security? Where are the gaps? What should be prioritized?

For more information, please visit nti.org/about/programs-projects/project/global-dialogue-nuclear-security-priorities

Funding Partner(s)

N/A

Other Implementing Partner(s)

N/A

Project Status

Approved

Project Duration

Ongoing

Point(s) of Contact

Nickolas Roth, Senior Director, Roth@nti.org

PROJECT 2 Nuclear Security Index**Project Type**

Strengthening international nuclear security architecture

Geographical Focus

Worldwide

Project Description

The NTI Index is a globally recognized assessment and tracking of nuclear security conditions in countries around the world. It promotes actions to strengthen nuclear security and build confidence, and it highlights progress and trends over time.

For more information, please visit ntiindex.org

Funding Partner(s)

N/A

Other Implementing Partner(s)

N/A

Project Status

Active Implementation

Project Duration

Ongoing

Point(s) of Contact

Jack Brosnan, Program Officer, Brosnan@nti.org

PROJECT 3 Gender Champions in Nuclear Policy**Project Type**

Best practice or lessons learned exchanges

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.

For more information, please visit gcnuclearpolicy.org

Funding Partner(s)

Ploughshares Foundation

Other Implementing Partner(s)

N/A

Project Status

Active Implementation

Project Duration

Ongoing

Point(s) of Contact

Jack Brosnan, Program Officer, Brosnan@nti.org

Nuclear Proliferation Prevention Project (NPPP)

Type of Organization

Academia

Organization Description

Based at the LBJ School of Public Affairs, University of Texas at Austin, the Nuclear Proliferation Prevention Project (NPPP) engages in research, debate, and public education to ensure that civilian applications of nuclear technology do not foster the spread of nuclear weapons to states or terrorist groups. NPPP leads graduate courses and research projects, hosts conferences and visiting speakers, and administers the Paul Leventhal Fellowship, which supports graduate students to pursue summer internships in nuclear security.

For more information, please visit NPPP.org

Organization Location

Austin, Texas, USA

PROJECT Reducing Risks Posed by Weapons-Usable Material

Project Type

HEU minimization

Geographical Focus

Worldwide

Project Description

(1) HEU Minimization focuses on converting from HEU to LEU fuel in three realms—naval propulsion reactors, research reactors, and space reactors—building on NPPP’s 2013 book, *Nuclear Terrorism and Global Security: The Challenge of Phasing out Highly Enriched Uranium*. The scope is both domestic and foreign. (2) Plutonium for Energy focuses on the security, economic, and safety risks of using plutonium fuel, building on NPPP’s 2018 book, *Plutonium for Energy? Explaining the Global Decline of MOX*. The scope is both domestic and foreign. (3) Army Mobile Reactors focuses on the significant risks and limited benefits of such proposed reactors, building on NPPP’s 2021 working paper, “Proposed U.S. Army Mobile Nuclear Reactors: Costs and Risks Outweigh Benefits.” The scope currently is domestic.

Funding Partner(s)

MacArthur Foundation (through 2023)

Other Implementing Partner(s)

N/A

Project Status

Active Implementation

Project Duration

Ongoing

Point(s) of Contact

Alan J. Kuperman, Ph.D., Associate Professor, LBJ School of Public Affairs, University of Texas at Austin, is the Coordinator of the Nuclear Proliferation Prevention Project, ak@NPPP.org, (512) 471-8245.

Vienna Center for Disarmament and Non-Proliferation

Type of Organization

Think Tank

Organization Description

The Vienna Center for Disarmament and Non-Proliferation (VCDNP) promotes international peace and

security by conducting research, facilitating dialogue, and building capacity on nuclear non-proliferation and disarmament. Our research and analysis provide actionable policy recommendations for decision-makers. We host public events and facilitate constructive, results-oriented dialogue among national governments, multilateral institutions, and civil society. Through both in-person courses and online resources on nuclear non-proliferation and disarmament, we train diplomats and practitioners working in Vienna and around the world. The VCDNP is an international non-governmental organization established on the initiative of the Austrian government. The Federal Ministry for European and International Affairs of Austria and the James Martin Center for Nonproliferation Studies at the Middlebury Institute of International Studies at Monterey established the VCDNP in 2010, and the Center officially opened on 25 February 2011. The VCDNP is a member of the EU Non-Proliferation and Disarmament Consortium, which coordinates a Europe-wide network of think tanks and research institutions, supported by the European Union.

For more information, please visit vcdnp.org

Organization Location

Vienna, Austria

PROJECT 1 Short Courses on Non-Proliferation and Disarmament

Project Type

Training and education

Geographical Focus

Worldwide

Project Description

The VCDNP holds two intensive, weeklong short courses per year on nuclear non-proliferation and disarmament issues, targeted to diplomats and other practitioners. The participants are primarily from developing countries. The course includes sessions on nuclear security, as well as its nexus with the peaceful uses of nuclear science and technology. Participants also have the opportunity to network with nuclear security professionals at the IAEA. Between 20 and 25 individuals typically take part in each course.

For more information, please visit vcdnp.org/courses-2

Funding Partner(s)

Carnegie Corporation of New York

Other Implementing Partner(s)

N/A

Project Status

Recurring Activity/Engagement

Project Duration

The VCDNP has implemented this course since it opened in 2011

Point(s) of Contact

Gaukhar Mukhatzhanova, Director of the International Organizations and Non-Proliferation Programme, gaukhar@middlebury.edu

PROJECT 2 Winter 2022 Nuclear Security Professional Development Course**Project Type**

Training and education

Geographical Focus

Worldwide

Project Description

From 24 to 28 January 2022, the VCDNP held its second specialized short course on nuclear security for diplomats and practitioners. The course was held in a virtual format and included 24 participants from 23 countries representing governmental institutions, embassies, and permanent missions. Women constituted 50 percent of the course participants and 75 percent of participants were from developing countries. The week-long course covered diverse topics within the nuclear security regime, including peaceful nuclear applications and key elements of nuclear security; the history of the nuclear security regime; binding and non-binding international instruments; synergies between peaceful uses and nuclear security; the role of the IAEA and other organizations; opportunities and challenges related to nuclear security; and the policies and politics of nuclear security. The course was developed and delivered in close cooperation with the International Atomic Energy Agency (IAEA) and its Division of Nuclear Security.

For more information, please visit vcdnp.org/winter-2022-nuclear-security-professional-development-course

Funding Partner(s)

Foreign Commonwealth and Development Office of the United Kingdom

Other Implementing Partner(s)

N/A

Project Status

Completed

Project Duration

6 months – 1 year

Point(s) of Contact

Noah Mayhew, Research Associate, nmayhew@middlebury.edu

PROJECT 3 On the Peaceful Uses of Nuclear Energy and Nuclear Applications and the Role of Nuclear Security

Project Type

Training and education

Geographical Focus

Worldwide

Project Description

In 2018, the VCDNP launched a project with the aim to promote better understanding of the sustainable use of nuclear and other radioactive materials for peaceful purposes, as well as to build bridges between countries' views on nuclear security. It facilitates a better understanding by IAEA Member States of nuclear security, the common objectives of nuclear safety and nuclear security, the interplay between technical cooperation and nuclear security, Member State concerns regarding the role of nuclear security. It also provides increased opportunities for constructive engagement between Member States on nuclear security and related issues.

For more information, please visit vcdnp.org/on-the-peaceful-uses-of-nuclear-energy-and-nuclear-applications-and-the-role-of-nuclear-security

Funding Partner(s)

United States, United Kingdom, Kingdom of the Netherlands, Federal Republic of Germany

Other Implementing Partner(s)

N/A

Project Status

Long Term/Multi-Year Activity/Engagement

Project Duration

The VCDNP continues to run this project.

Point(s) of Contact

Ingrid Kirsten, Senior Research Associate, ikirsten@middlebury.edu

PROJECT 4 Accession to and Impact of the Amendment to the Convention on the Physical Protection of Nuclear Material on States Parties

Project Type

Strengthening international nuclear security architecture

Geographical Focus

Worldwide

Project Description

In advance of the Review Conference of the Convention on the Physical Protection of Nuclear Material (CPPNM) 2005 Amendment approaches, the VCDNP conducted a study to assess conditions surrounding universal adherence to the CPPNM and its Amendment (collectively known as the CPPNM/A). The study entailed an examination of the impact of implementing the Amendment on States Parties, as well as challenges to accession to the Amendment, measures that would facilitate effective implementation of the Amendment and expedite its universality. Authored by VCDNP Research Associate Artem Lazarev and Visiting Research Fellow Marianne Nari Fisher, the study consisted of initial research, a survey of 28 States Parties to the CPPNM, and a high-level workshop that featured remarks by senior experts and diplomats.

For more information, please visit vcdnp.org/cppnm-a-report

Funding Partner(s)

International Science and Technology Center and the Federal Department of Foreign Affairs of Switzerland

Other Implementing Partner(s)

N/A

Project Status

Completed

Project Duration

1 – 1.5 years

Point(s) of Contact

Elena Sokova, Executive Director, esokova@middlebury.edu

PROJECT 5 VCDNP Task Force on Peaceful Uses: Report and Recommendations**Project Type**

Strengthening international nuclear security architecture

Geographical Focus

Worldwide

Project Description

The peaceful uses of nuclear science and technology contribute to sustainable development and the betterment of humankind across the globe. Since its creation in 1957, the IAEA has worked to implement its atoms for peace mandate by facilitating the availability and transfer of nuclear science and technology. At the same time, the IAEA implements nuclear safeguards, develops safety standards and security guidance, and supports its Member States in capacity building to utilize nuclear science and technology for peaceful uses. In the lead-up to the Tenth Review Conference of the Treaty on the Non-Proliferation of Nuclear Weapons (NPT), States Parties engaged in a wide-ranging consultations on peaceful uses, including how to make better use of the NPT review process to further advance the peaceful use of the atom for

development. In this context, the VCDNP established a Task Force in late 2020 to examine and provide recommendations for approaches that could lead to increased access to nuclear science and technology.

For more information, please visit vcdnp.org/vcdnp-task-force-on-peaceful-uses-report-and-recommendations

Funding Partner(s)

Carnegie Corporation of New York

Other Implementing Partner(s)

N/A

Project Status

Completed

Project Duration

1.5 – 2 years

Point(s) of Contact

Elena Sokova, Executive Director, esokova@middlebury.edu; Ingrid Kirsten, Senior Research Associate, ikirsten@middlebury.edu

Implementers

The Critical Mass LLC

Type of Organization

Implementer

Organization Description

The Critical Mass (TCM), LLC is an established Service-Disabled Veteran-Owned Small Business (SDVOSB) and Woman-Owned (WOSB) based in Alexandria, Virginia. We are an international security Do and Think tank and implement results-focused projects and sustainable security solutions by championing diverse expertise and innovation.

For more information, please visit thecriticalmass.com

Organization Location

Alexandria, VA, USA

PROJECT 1 Enhanced Interoperability of GOI/KRI Response Units and Airport Officials

Project Type

Training and education

Geographical Focus

Middle East/North Africa

Project Description

The purpose of this Cooperative Agreement is to enhance CBRN incident prevention and response capability in and around airports and to support standardization and synchronization of Government of Iraq/Kurdistan Region of Iraq (GOI/KRI) CBRN units.

Funding Partner(s)

DOS Nonproliferation and Disarmament Fund

Other Implementing Partner(s)

CRDF Global

Project Status

NDF selected TCM's proposal and TCM is administering this through CRDF Global

Project Duration

2 – 2.5 years

Point(s) of Contact

Jordan Wilhelm, TCM CEO and Project Lead, jordan.wilhelm@thecriticalmass.com

PROJECT 2 Iraq Western Border Synchronization Initiative**Project Type**

Border security

Geographical Focus

Middle East/North Africa

Project Description

The purpose of this Cooperative Agreement is to have The Critical Mass, LLC (TCM) provide border security technical assistance to the Government of Iraq focused on improving border security operations, including interagency operational integration and synchronization. Under this agreement, TCM supported Bureau Goals to stop proliferation-related transfers and networks; and prevent terrorist access to WMD, delivery systems, materials, technology, and conventional weapons.

For more information, please visit thecriticalmass.com/post/iraq-western-border-security-integration-and-synchronization-initiative-in-erbil-iraq

Funding Partner(s)

DOS ECC/EXBS

Other Implementing Partner(s)

Louisiana State University NCBRT

Project Status

Completed

Project Duration

2 – 2.5 years

Point(s) of Contact

Scott Eshom, TCM Director of Programs & Partnerships, scott.eshom@thecriticalmass.com

PROJECT 3 National WMD Evident and Investigation Enterprise Initiative for Morocco

Project Type

Improving incident response

Geographical Focus

Middle East/North Africa

Project Description

The purpose of the Cooperative Agreement is to train and strengthen Moroccan law enforcement capabilities to conduct CBRN crime scene investigation and to improve stakeholder coordination.

Funding Partner(s)

DOS ISN Office of Weapons of Mass Destruction-Terrorism (WMDT)

Other Implementing Partner(s)

Louisiana State University NCBRT

Project Status

Completed

Project Duration

2 – 2.5 years

Point(s) of Contact

Scott Eshom, TCM Director of Programs & Partnerships, scott.eshom@thecriticalmass.com

PROJECT 4 Iraq International CBRN Safety and Security Conference (5th, 2021)

Project Type

Best practice or lessons learned exchanges

Geographical Focus

Middle East/North Africa

Project Description

TCM designed, organized, and co-facilitated Iraq's Annual CBRN Safety and Security Conference and separately organized a follow-on synch meeting for USG and Government of Iraq (GOI) border security officials both of which took place in Baghdad, Iraq. TCM served as the primary liaison with the Iraqi conference organizing committee and worked collaboratively with local partners and DTRA sponsors to develop a conference agenda, format, and focus that would provide value to a multidisciplinary audience of more than 300 stakeholders. TCM oversaw development of panel discussion topics, provided recommendations for expert panelists and speakers, and served as panel and conference moderators. Further, TCM designed and conducted a closed working group session for conference organizers with

the purpose of developing a sustainable conference design plan, emphasizing indigenous subsidization and national priorities, to be applied in subsequent years. This synchronized training and other efforts TCM supported in less than permissive and high-threat environments, environments in which TCM has expertise and past performance operating in.

For more information, please visit issuu.com/thecriticalmass/docs/iraq_magazine_vweb

Funding Partner(s)

U.S. Department of Defense, Defense Threat Reduction Agency (DTRA), Cooperative Threat Reduction (CTR)-WMD Proliferation Prevention Program (PPP); Threat Reduction Logistics Services (TRLS) Contract Vehicle

Other Implementing Partner(s)

Culmen International

Project Status

Completed

Project Duration

0 – 6 months

Point(s) of Contact

Jordan Wilhelm, TCM CEO, jordan.wilhelm@thecriticalmass.com

PROJECT 5 Iraq International CBRN Safety and Security Conference (4th, 2020)

Project Type

Best practice or lessons learned exchanges

Geographical Focus

Middle East/North Africa

Project Description

TCM designed, organized, and co-facilitated Iraq's Annual CBRN Safety and Security Conference and separately organized a follow-on synch meeting for USG and Government of Iraq (GOI) border security officials both of which took place in Baghdad, Iraq. TCM served as the primary liaison with the Iraqi conference organizing committee and worked collaboratively with local partners and DTRA sponsors to develop a conference agenda, format, and focus that would provide value to a multidisciplinary audience of more than 300 stakeholders. TCM oversaw development of panel discussion topics, provided recommendations for expert panelists and speakers, and served as panel and conference moderators. Further, TCM designed and conducted a closed working group session for conference organizers with the purpose of developing a sustainable conference design plan, emphasizing indigenous subsidization and national priorities, to be applied in subsequent years. This synchronized training and other efforts TCM supported in less than permissive and high-threat environments, environments in which TCM has expertise and past performance operating in.

For more information, please visit issuu.com/thecriticalmass/docs/iraq_magazine_vweb

Funding Partner(s)

U.S. Department of Defense, Defense Threat Reduction Agency (DTRA), Cooperative Threat Reduction (CTR)-WMD Proliferation Prevention Program (PPP); Threat Reduction Logistics Services (TRLS) Contract Vehicle

Other Implementing Partner(s)

Culmen International

Project Status

Completed

Project Duration

0 – 6 months

Point(s) of Contact

Jordan Wilhelm, TCM CEO, jordan.wilhelm@thecriticalmass.com

PROJECT 6 Iraq Airport and Aviation Security Initiative

Project Type

Legislative and regulatory analysis

Geographical Focus

Middle East/North Africa

Project Description

CM was responsible for shaping, coordinating, and facilitating USG and GOI stakeholder meetings and an initial equipment training mission in support of ECC/EXBS' Iraq Airport Security Project. TCM was tasked to oversee coordination among Iraqi stakeholders representing Basra, Erbil, and Baghdad international airports, as well as representatives of the Iraq Civil Aviation Authority (ICAA) to understand and validate Iraq airport security training and equipment requirements, gaps, and priorities. Following the assessment and validation phase, goals included supporting them to achieve ICAO (International Civil Aviation Organization) international standards, and following the NCASP (National Civil Aviation Programme) regulatory framework to identify and mitigate against risk reduction measures. This effort involved site surveys, physical security and policy assessments, equipment enhancement, training, and regulatory review in coordination with the Iraqi National Aviation Authority in addition to the US Embassy and other participating organizations. TCM and partners sourced international aviation and security expertise and are using the NCASP to achieve international standards.

Funding Partner(s)

U.S. Department of State (DoS), Bureau of International Security and Nonproliferation (ISN), Office of Export Control Cooperation (ECC), Export Control and Related Border Security (EXBS) Program

Other Implementing Partner(s)

CRDF Global

Project Status

Completed

Project Duration

1 – 1.5 years

Point(s) of Contact

Jordan Wilhelm, TCM CEO, jordan.wilhelm@thecriticalmass.com

PROJECT 7 Ukraine Professional Continuity in Research and Science (PCRS)**Project Type**

Strengthening international nuclear security architecture

Geographical Focus

Eastern Europe

Project Description

The Critical Mass (TCM) is providing Outreach, Facilitation, and Ukraine Scientist Identification, Outreach, and Project Support to Sandia National Laboratories (SNL) in order to facilitate delivery of risk awareness training. Thus far, the identification and outreach, course facilitation, and collection of scientist profile information has been successful, with week on week increase in engagement and participation in the training. TCM is building a data visualization tool to support Ukraine's Science and Technology Center leadership and is in direct contact with them and has a Ukrainian team in Kyiv working on the tool.

For more information, please visit thecriticalmass.com/ukraine

Funding Partner(s)

U.S. Department of State (DoS), Bureau of International Security and Nonproliferation (ISN), Office of Cooperative Threat Reduction (CTR), Partnership for Nuclear Threat Reduction (PNTR)

Other Implementing Partner(s)

Sandia National Laboratories, CRDF Global

Project Status

Active Implementation

Project Duration

6 months – 1 year

Point(s) of Contact

Jordan Wilhelm, TCM CEO, jordan.wilhelm@thecriticalmass.com

Non-Governmental Organizations

Civil Council on Defense and Security

Type of Organization

Non-Governmental Organization

Organization Description

The Civil Council on Defense and Security (CCDS) is a non-governmental, non-partisan, not-for-profit organization which aims to contribute to democratic reforms in Georgia's security and defense sector and support the country's democratic transition and EuroAtlantic integration. With this aim in mind, CCDS provides a public debate platform for civil society, government agencies and international stakeholders; facilitates civil society's engagement in democratic oversight of Georgia's defense/security sector; supports capacity-building of the government and professional communities in the area of nuclear security and WMD non-proliferation; and raises the public's awareness on security-related issues. CCDS was launched in 2005 and officially registered in 2011.

For more information, please visit civilcouncil.org

Organization Location

Tbilisi, Georgia

PROJECT Support for the Development of Nuclear Security Forum, Nuclear Nonproliferation Education and Research Capacity Building in Georgia

Project Type

Training and education

Geographical Focus

Europe

Project Description

Since 2011 the CCDS, with the support of Swedish Radiation Safety Authority, has been leading a program aiming to develop Georgia's nonproliferation policy through building professional capacities of the domestic stakeholders; facilitate dialogue and communication among government, civil society, media, and international community in the field. CCDS has been working on the improvement of the quality

of nuclear nonproliferation education in Georgia through developing the regular platforms of dialogue among universities (regional universities actively engaged), experts, civil society representatives and civil servants. Efforts have been made to strengthen capacities of academicians/professors in nuclear security and nonproliferation. A textbook on nuclear nonproliferation and safeguards for university students in the Georgian language has been translated, published, and updated in 2020. Additionally, the web-platform www.nonproliferation.ge has been developed.

For more information, please visit nonproliferation.ge

Funding Partner(s)

Swedish Radiation Safety Authority SSM

Other Implementing Partner(s):

Project Status

Multi-Year activity is supported on annual basis

Project Duration

1 – 1.5 years

Point(s) of Contact

Tamar Pataraiia, Board Member, pataraiat@gmail.com

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

Type of Organization

Non-Governmental Organization

Organization Description

CNS is the premier education and training organization in the field of nonproliferation studies. CNS strives to combat the spread of weapons of mass destruction (WMD) by training the next generation of nonproliferation specialists while also disseminating timely information and analysis. Founded in 1989, CNS is the largest nongovernmental organization in the world devoted exclusively to research and training on nonproliferation issues.

For more information, please visit nonproliferation.org

Organization Location

Monterey, California, USA

PROJECT 1 CNS Visiting Fellows Program

Project Type

Training and education

Geographical Focus

Worldwide

Project Description

Established in 1991, the James Martin Center for Nonproliferation Studies (CNS) Visiting Fellows program is one of the world's first professional training programs devoted to WMD nonproliferation, arms control, and disarmament issues. With its original focus on practitioners and researchers from the Newly Independent States of the former Soviet Union, the program expanded in the late 1990s to include candidates from East Asia, and then again in the mid-2000s to other regions of the world, to include, in particular countries representing the Non-Aligned Movement. Since the program's inception, it has trained over 300 experts from over thirty countries, including Argentina, Azerbaijan, The Bahamas, Belarus, Bulgaria, Burkina Faso, Cameroon, Chile, China, Colombia, Costa Rica, Egypt, Haiti, India, Iraq, Jamaica, Kazakhstan, Kyrgyzstan, Malaysia, Mali, Mexico, Nigeria, Pakistan, Philippines, Romania, Russia, South Africa, Serbia, Sri Lanka, Tajikistan, Turkey, Ukraine, Uzbekistan, and Yemen as well as regional organizations such as the Agency for the Prohibition of Nuclear Weapons in Latin America and the Caribbean (OPANAL) and United Nations Regional Centre for Peace, Disarmament and development in Latin America and the Caribbean (UNLIREC). Visiting Fellows alumni continue to play important roles in their countries, representing their governments at high-profile international nonproliferation meetings and conferences, and even serving as ambassadors or national representatives at international organizations. Others contribute to their nations' nonproliferation and nuclear security capacity-building efforts by developing and teaching academic and training courses on relevant topics. Training at CNS has inspired some experts from Russia, Kazakhstan, and Ukraine to establish their own think tanks and research centers focusing on WMD nonproliferation.

Funding Partner(s)

US government and private foundations

Other Implementing Partner(s)

N/A

Project Status

Long Term/Multi-Year Activity/Engagement

Project Duration

Ongoing since 1991

Point(s) of Contact

Jean duPreez jdupreez@middlebury.edu

PROJECT 2 Black Sea Women in Nuclear Network

Project Type

Strengthening international nuclear security architecture

Geographical Focus

Black Sea region

Project Description

The Black Sea Women in Nuclear Network's mission is to connect, support, and empower women in nuclear fields. Interdisciplinary by nature, the network brings together women in STEM and policy from national governments, industry, civil society, and academia from Bulgaria, Georgia, Romania, Turkey, Ukraine, Moldova, and other countries. The network will serve as a platform for professionals to promote gender equity and increase women's leadership roles, as well as offer professional exchanges, mentoring, and training opportunities.

For more information, please visit bswn.org

Funding Partner(s)

US government

Other Implementing Partner(s)

Los Alamos National Laboratory

Project Status

Long Term/Multi-Year Activity/Engagement

Project Duration

Ongoing

Point(s) of Contact

Margarita Kalinina-Pohl, Program Director, CBRN Security, mkalininapohl@middlebury.edu

PROJECT 3 US-Black Sea Nonproliferation Professional Exchange

Project Type

Best practice or lessons learned exchanges

Geographical Focus

Black Sea region

Project Description

The James Martin Center for Nonproliferation Studies launched another initiative with the focus on the Black Sea region called the US Black Sea Nonproliferation Exchange Initiative. The initiative is sponsored by the International Security and Nonproliferation Bureau of the US State Department and will serve as

a channel for a deeper coordination and support between nonproliferation professionals in the US and Black Sea including scholars/researchers and diplomats/practitioners.

Funding Partner(s)

US government

Other Implementing Partner(s)

Civil Council for Defense and Security (Georgia)

Project Status

Recurring Activity/Engagement

Project Duration

Ongoing

Point(s) of Contact

Margarita Kalinina-Pohl, Program Director, CBRN Security, mkalininapohl@middlebury.edu

PROJECT 4 Summer Undergraduate Nonproliferation Fellowship Program

Project Type

Training and education

Geographical Focus

Majority US students

Project Description

The James Martin Center for Nonproliferation Studies (CNS) offers on-the-job training during the summer for undergraduate students in nonproliferation studies. Participants conduct research on issues related to the spread and control of weapons of mass destruction (WMD), including nuclear, chemical and biological weapons, as well as regional security issues in the former Soviet Union, Eurasia, East Asia, South Asia, and the Middle East. In addition to working on ongoing projects at CNS, undergraduate fellows may develop their own research projects under the guidance of senior CNS faculty. Fellows will attend CNS lectures and training seminars throughout the summer. CNS usually starts the training program at the beginning of June for two to three months.

For more information, please visit sites.miiis.edu/summerintern

Funding Partner(s)

N/A

Other Implementing Partner(s)

N/A

Project Status

Every summer

Project Duration

ongoing

Point(s) of Contact

Masako Toki, Senior Project Manager, mtoki@middlebury.edu

PROJECT 5 **Putin's War with Ukraine: Voices of CNS Experts on the Russian Invasion****Project Type**

Strengthening security for nuclear weapons and military nuclear materials

Geographical Focus

Worldwide

Project Description

Russia's unprovoked invasion of Ukraine has set in motion a catastrophic war, the consequences of which are already tragic. As with all wars, this one also will have many unintended consequences, including with respect to nuclear nonproliferation, arms control, deterrence, disarmament, and risk reduction. Consistent with the CNS mission of promoting nonproliferation education and analysis, CNS has launched a series of webinars about the nuclear challenges and risks that have arisen as a result of this unfolding crisis.

Funding Partner(s)

N/A

Other Implementing Partner(s)

N/A

Project Status

Active Implementation

Project Duration

1.5 – 2 years

Point(s) of Contact

Dr. William Potter, CNS Director, wpotter@middlebury.edu

PROJECT 6 **Radiological Security in Contested Territories: The Successful Case of the Removal of Disused Radioactive Sources and Materials from Transdnistria**

Project Type

Improving radiological security

Geographical Focus

Eastern Europe

Project Description

This report covers one of the few success stories involving the removal or elimination of dangerous radioactive sources from a contested territory. It describes and assesses the lessons learned from the Republic of Moldova's removal of approximately 2,700 disused radioactive sources and materials from the breakaway region of Transdniestria. Though these materials were located in a territory that is not de facto governed by an International Atomic Energy Agency member state, creative diplomacy by the Republic of Moldova, the Pridnestrovian Moldovan Republic (the unrecognized authorities in Transdniestria), the Organization for Security and Cooperation in Europe (OSCE), and other key stakeholders contributed to the success of this removal operation. The report describes these diplomatic efforts and analyzes the significant political, legal, and technical factors that contributed to the success of this multiyear mission. While recognizing that each country and conflict is unique, we hope that this case study can serve as a successful model of cooperation and confidence building for reducing radiological risks in contested territories around the world.

For more information, please visit nonproliferation.org/wp-content/uploads/2023/02/radiological_security_in_contested_territories.pdf

Funding Partner(s)

N/A

Other Implementing Partner(s)

N/A

Project Status

Completed

Project Duration

1 – 1.5 years

Point(s) of Contact

Margarita Kalinina-Pohl, Program Director, CBRN Security, mkalininapohl@middlebury.edu

PROJECT 7 Nonproliferation and Nuclear Security for Women in STEM**Project Type**

Training and education

Geographical Focus

Sub-Saharan Africa, Latin America and the Caribbean

Project Description

A series of courses to provide women who are technical experts, researchers, scientists, and government officials with a broader understanding of weapons of mass destruction, nonproliferation, arms control, disarmament, 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.

Funding Partner(s)

N/A

Other Implementing Partner(s)

African Center for Science and Security (AFRISCIS) in Ghana, Nuclear and Energy Research Institute (IPEN) in Brazil

Project Status

Active Implementation

Project Duration

Ongoing

Point(s) of Contact

Margarita Kalinina-Pohl, Program Director, CBRN Security, mkalininapohl@middlebury.edu.

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.

For more information, please visit [ucsusa.org](https://www.ucsusa.org)

Organization Location

Cambridge, MA, USA

PROJECT 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 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.” UCS 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

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.

For more information, please visit wins.org

Organization Location

Vienna, Austria

PROJECT 1 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 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 five 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 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 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 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 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

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.

For more information, please visit inmm.org

Organization Location

Laurel, New Jersey, USA

PROJECT 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

Independent Experts/Consultants/ Contractors

Jo-Ansie van Wyk

Type of Organization

Academia/Individual

Organization Description

Professor Jo-Ansie van Wyk lectures International Politics at the University of South Africa (Unisa), Pretoria, South Africa. She has completed a D Phil (International Relations) on South Africa's post-apartheid nuclear diplomacy, and has published on, amongst others, South Africa's nuclear diplomacy and nuclear weapons program. She is the co-editor of the South African Foreign Policy Review (volumes one to four). She is Fulbright Alumna (University of Delaware, Newark, United States of America) and a Member of the South African Academy for Science and Art. She has been a guest lecturer at the Universities of Johannesburg and Pretoria, and the South African National Intelligence Academy, the South African National Defence College, the South African National War College, and the South African Diplomatic Academy (DIRCO). She has completed consultancies for the World Bank, UNESCO, the Institute for Security Studies (ISS), the South African Department of Foreign Affairs (DFA), Consultancy Africa Intelligence (CAI) and the African Union African Commission on Nuclear Energy (AFCONE). Some of her current work focuses on the necropolitics of Africa's nuclear sacrifice zones. She is the founder of the African Nuclear Research Network. Attached to the University of South Africa (Unisa), Pretoria, South Africa

Organization Location

Pretoria, South Africa

PROJECT The Coloniality of Nuclear Power in South Africa

Project Type

Strengthening international nuclear security architecture

Geographical Focus

Worldwide

Project Description

South Africa's nuclear past and its continued impact remains of interest. Besides attempting to understand how nuclear proliferation occurs, the project is also concerned with the continued impact of South Africa's

nuclear weapons program's socio-economic legacy through the nuclear geography it established. The third focus area includes South Africa's role in international nuclear security. The project has three main pillars research, supervision of postgraduate students, and community engagement on nuclear issues.

Funding Partner(s)

University of South Africa, Pretoria, South Africa

Other Implementing Partner(s)

N/A

Project Status

Recently Started

Project Duration

2.5 – 3 years

Point(s) of Contact

Prof Jo-Ansie van Wyk, Research Professor and Principal Investigator. vwykjak@unisa.ac.za

Muhammed Ali Alkış

Type of Organization

Academia/Individual

Organization Description

Muhammed Ali Alkış (Türkiye) is the World Institute for Nuclear Security (WINS) Ambassador to Türkiye and a PhD candidate at Hacettepe University, Türkiye. In addition, he is a Research Affiliate and the Gender Champion at the Odesa Center for Nonproliferation. His research interests are nuclear security, non-proliferation and nuclear terrorism, as well as Turkish nuclear and foreign policies. He is an active contributor to the nuclear security community, promoting collaboration via knowledge sharing, participating in various nuclear security related workshops, events, and meetups, as well as publishing in national, regional, and international forums.

For more information, please visit twitter.com/AliAlkisTR

Organization Location

Ankara, Türkiye

PROJECT Armed Conflict and Nuclear Security: Implications for Europe

Project Type

Strengthening international nuclear security architecture

Geographical Focus

Europe

Project Description

This paper provides a range of potential policy recommendations and actionable steps that the EU and its member states could take at legal, institutional, and operational levels to minimize the nuclear security threats posed by armed conflict in the future. While they may appear politically challenging or even unrealistic at present, the conflict in Ukraine highlights the very real need for the types of actions recommended by this paper.

For more information, please visit nonproliferation.eu/wp-content/uploads/2023/04/EUNPDC_no-82.pdf

Funding Partner(s)

EU Non-Proliferation and Disarmament Consortium

Other Implementing Partner(s)

N/A

Project Status

Completed

Project Duration

0 – 6 months

Point(s) of Contact

Muhammed Ali Alkis, Author, alialkis@hacettepe.edu.tr

Sitakanta Mishra

Type of Organization

Academia/Individual

Organization Description

Dr. Sitakanta Mishra is currently an Associate Professor of International Relations in the School of Liberal Studies of Pandit Deendayal Energy University (PDEU, formerly PDP), Gandhinagar, Gujarat (India). He is also the Managing Editor of the Liberal Studies journal published by the School of Liberal Studies (SLS) of PDP, Gujarat. Previously, he was a Research Fellow at the Centre for Air Power Studies (CAPS), New

Delhi, and a Guest Faculty at the Nelson Mandela Centre for Peace and Conflict Resolution, Jamia Millia Islamia, New Delhi. Dr. Mishra received his PhD from the Centre for South Asian Studies of Jawaharlal Nehru University (JNU), New Delhi. He was a Visiting Research Scholar at Cooperative Monitoring Centre, Sandia National Laboratories, USA. Dr. Mishra has authored/edited five books on India's national security, cruise missiles, nuclear safety security, nuclear weapons, terrorism, etc., in addition to several book chapters and research papers related to India's neighborhood, Indo-Pak and Sino-Indian relations, India's foreign policy, nuclear policy, nuclear safety-security, terrorism, nuclear energy, missile defense, and Indo-Pacific affairs. He is also involved in India-Pakistan and Indo-Pacific Track 2 dialogues organized in different parts of the world.

For more information, please visit pdpu.ac.in

Organization Location

Gandhinagar, Gujarat, India

PROJECT Social Acceptance of Nuclear Energy in India

Project Type

Legislative and regulatory analysis

Geographical Focus

India

Project Description

There is no looking back in India's nuclear energy journey especially under Prime Minister Narendra Modi's leadership. In pursuit of his vision of Sabka Vikas through rapid economic growth, along with the aim to achieve net zero emission target by 2070, India is diversifying its energy basket. During the last 6–7 years alone, India's capacity for renewable energy rose by over 250%. To sustain 'electricity for all' and viable energy for heavy industrialization, base-load energy cleaner sources like nuclear is inevitable. Therefore, Prime Minister Modi "aims to triple India's nuclear fleet over the next decade to expand the share of electricity from cleaner sources." India currently generates only around 3% of total electricity from nuclear sources but is determined to scale up the production to realize the net zero ambition. In a bid to speed adoption of nuclear energy, the government has given administrative approval and financial sanction for setting up ten indigenous PHWRs in fleet mode and opened domestic atomic industry to state-controlled firms. Amidst the ambitious pursuit of nuclear energy expansion drive, public resistance to nuclear projects can be noticed despite the lack of a nation-wide anti-nuclear movement. It can be assumed that public opposition to nuclear projects might intensify in the years ahead as a number of nuclear plants are planned in different states. Ever since the Kudankulam protest, the nuclear establishment has been proactive in dealing with the protesters, as the local people motivate them to be stakeholders in the projects. Nevertheless, protest movements have hindered the progress of projects, leading to project cost escalation. Sporadic but successive nuclear disasters outside India have hardened the prevailing negative perception on nuclear technology among the public. In India, anti-nuclear movements are largely based around the issue of displacement and livelihood effects. But the movements are gradually getting institutionalized and getting linked to global green politics movements. Though no political party has subscribed to green politics yet, there might be green politics in the future given the rise of civil society

consciousness and post-material considerations among the middle class. Before such intriguing situation arises, Indian nuclear establishment and the government needs to devise mechanisms and a strategy to address every concern of the public vis-à-vis the nuclear program. After all, public money is spent on nuclear projects and the public has every right to raise concerns. The nuclear establishment is obligated to provide information to allay the fears of local communities and take them into consideration at every step of the project. But the assumption that there will be a linear progression from public education to public understanding, and further to public support for nuclear projects, needs serious investigation. This study argues that information dissemination may help allay public concerns regarding nuclear projects, and that garnering public support for nuclear energy programs requires structural understanding of societal perceptions of nuclear technology and consequent planning of public outreach or CSR programs.

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India Policy Foundation, New Delhi

Other Implementing Partner(s)

N/A

Project Status

Completed

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6 months – 1 year

Point(s) of Contact

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