



STIMSON

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Catalogue of Civil Society Activities Supporting the Chemical Weapons Convention

November 2023

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Civil society is essential to strengthening chemical security and nonproliferation. This catalogue is a uniform collection of projects led by civil society organizations contributing to the Chemical Weapons Convention. With this resource, international organizations, states, and industry will have a better understanding of the ways in which civil society contributes to reducing the threat of chemical weapons and promoting the peaceful use of chemistry.

The Henry L. Stimson Center is pleased to present a catalogue of civil society capacity building, assistance, and/or research programs supporting the Chemical Weapons Convention (CWC). The catalogue highlights for all interested parties, including the CWC States Parties, the Organisation for the Prohibition of Chemical Weapons (OPCW), the Global Partnership Against the Spread of Weapons and Materials of Mass Destruction, international organizations, and industry stakeholders, civil society's contributions to strengthen reducing the threat of chemical weapons and promoting the peaceful use of chemistry. By providing a uniform product, interested parties will be able to easily identify programs, experts, and organizations that support the CWC and related chemical weapons nonproliferation instruments.

In total, 14 projects were contributed by two individual experts and seven organizations, the majority of which were think tanks and research or academic institutes. These civil society organizations were spread across three continents, with five organizations based in Europe, three in the United States, and one in South America.

The median project duration, as of the time of submission, was approximately four years, and the geographic focus was diverse, with 11 described as "worldwide," two focusing on Central Asia and the Caucasus, and one on Europe. Project types largely fell into the categories of knowledge sharing/best

practices, border/export controls, legislative/regulatory assistance, and preparedness/responses.

This catalogue is compiled by the Henry L. Stimson Center. As applicable, material contained in this catalogue will 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

ACADEMY OF SCIENCES, BOLOGNA INSTITUTE

Type of Organization: Academia

Organization Description: The Academy of Sciences of the Bologna Institute of Bologna is an Italian academic society, founded in 1690. Originally devoted exclusively to experimental, medical, and physical-mathematical sciences, it prospered in the Age of Enlightenment and became a reference point for those who called for a decisive progress of scientific studies in Bologna and in Italy. Among its members were the famous scientists Luigi Galvani, Guglielmo Marconi, Albert Einstein, and Marie Curie. The Academy today publishes original works in the fields of humanities and sciences and promotes conferences and debates. It cooperates with the University of Bologna to arrange seminars and workshops attended by more than 2,000 scientists annually. A working group of experts within the Academy deals with the study of ethics in science and, in particular, in chemistry since 2003. The Academy constantly collaborates with the OPCW and provides technical support to the Italian National Authority at the Ministry of Foreign Affairs for the implementation of the CWC. It is the only Italian non-governmental institution taking part on a regular basis as an observer to the plenary sessions of the OPCW.

For more information, please visit <https://site.unibo.it/accademiascienzebologna>

Organization Location: Bologna, Italy

Project Name: 1993-2023 Chemistry between Ethics and War: 30 years of the Convention on Chemical Weapons

Project Type: Conference/Workshop, Awareness Raising and Education

Geographical Focus: Europe

Relevant CWC Articles Covered by the Project: Articles II, VIII and XI

Project Description: The initiative aims at raising awareness of the general public about the mission of the Organisation for Prohibition of Chemical Weapons (OPCW), showing the goals of the CWC, and displaying the constant effort of scientists and professionals working every day to avoid the use of science and technology for warfare or criminal activity. Workshops and round tables are open to the non-specialist public as well as to students, young scientists, and experts from governmental institutions working for a world free from chemical weapons.

For more information, please visit

<https://site.unibo.it/accademiascienzebologna/it/agenda/1993-2023-la-chimica-tra-etica-e-guerra>

Funding Partner(s): Italian National Research Council (CNR)

Other Implementing Partner(s): National Authority for the Implementation of the CWC, Italian Ministry of Foreign Affairs; Italian Chemical Society

Project Status: Recurring Activity/Engagement

Project Duration: 6 months - 1 year

Point(s) of Contact: Matteo Guidotti, Senior Researcher, matteo.guidotti@cnr.it

HARVARD SUSSEX PROGRAM, THE

Type of Organization: Academia

Organization Description: The Harvard Sussex Program (HSP) seeks to instill the traditions, practice, and benefits of scholarship into the formation of public policy on issues involving CBW. Primary methods include university-based research and publication, other forms of international communication, and constructive association with people in policy-shaping and policy-making circles. HSP also maintains The Sussex Harvard Information Bank on Chemical and Biological Warfare (SHIB).

For more information, please visit <http://hsp.sussex.ac.uk/new/>

Organization Location: United Kingdom

Project 1 Name: Preparing for Success at the Fifth Review Conference of the Chemical Weapons Convention: A Guide to the Issues

Project Type: Information and guidance

Geographical Focus: Worldwide

Relevant CWC Articles Covered by the Project: The Chemical Weapons Convention full treaty text

Project Description: The Fifth CWC Review Conference took place in the second quarter of 2023. This event presented an important opportunity for CWC States Parties to take stock of the past and chart the future of this important disarmament agreement. Progress with the CWC will however require careful preparation both in terms of the development of substantive inputs and ideas, but also raising awareness and understanding of the CWC and the Review Conference process. To support the CWC delegates, this report included factual material on the historical experiences related to preparations, proposals, procedures, and participation in past Review Conferences. It also included a brief, balanced analysis of salient issues that were likely to be addressed at the Fifth Review Conference. Furthermore, it made recommendations for preparing for the Review Conference.

For more information, please visit <https://undir.org/publication/preparing-for-success-at-the-fifth-review-conference-of-the-chemical-weapons-convention-a-guide-to-the-issues/>

Funding Partner(s): N/A

Project Status: Completed

Project Duration: 6 months - 1 year

Point(s) of Contact: Dr Alexander Ghionis, Research Fellow in Chemical and Biological Security, a.ghionis@sussex.ac.uk

Project 2 Name: Fictions, Futures, and Foresight: Scenario planning for advancing AI governance within the chemical and biological weapons prohibition regimes

Project Type: Academic research and policy engagement

Geographical Focus: Worldwide

Relevant CWC Articles Covered by the Project: The Chemical Weapons Convention and Biological Weapons Convention

Project Description: This project will develop grounded scenarios exploring emerging anxieties about artificial intelligence (AI) embedded within the chemical and biological weapons prohibition regimes (CBW-PR), to facilitate the identification and evaluation of potential governance to mitigate challenges.

Other Implementing Partner(s): BASIC

Project Status: Active Implementation

Project Duration: 6 months - 1 year

Point(s) of Contact: Dr Joshua Moon, Research Fellow in Health and Research Policy, j.r.moon@sussex.ac.uk

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 <https://www.stimson.org/>

Organization Location: Washington, D.C., USA

Project 1 Name: Cheminformatics

Project Type: Border/Export Control, Preparedness/Response

Geographical Focus: Worldwide

Relevant CWC Articles Covered by the Project: Article VI

Project Description: The Cheminformatics project seeks to assist frontline officers for border security and trade controls with identifying whether chemicals declared for export can be utilized as chemical warfare agent precursors by digitizing and automating this complex and time-consuming task. The project aims to develop a web-based tool with a user-friendly interface to address vulnerabilities to the CW nonproliferation regime caused by manual cross referencing of chemical export declarations with lists of chemicals of proliferation concern.

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

Funding Partner(s): Global Affairs Canada's Weapons Threat Reduction Program

Other Implementing Partner(s): American University, George Mason University

Project Status: Recurring Activity/Engagement

Project Duration: 4 years

Point(s) of Contact: Christina McAllister, Senior Fellow & Director, Partnerships in Proliferation Prevention, cmcallister@stimson.org

Project 2 Name: MATCH Prototype

Project Type: Border/Export Control, Infrastructure/Equipment Support

Geographical Focus: Worldwide

Relevant CWC Articles Covered by the Project: Article VI, VII

Project Description: The Chemical Weapons Convention (CWC) requires that States Parties report annually on the transfer of chemicals listed under the Convention as part of ongoing efforts to prevent the re-emergence of chemical weapons programs. States report aggregate national data to the Organisation for the Prohibition of Chemical Weapons (OPCW), where the Technical Secretariat does the challenging work of matching imports with exports. The Monitoring and Tracking Chemicals (MATCH) project is a prototype software system that addresses fundamental challenges to reconciling transfer data for commonly traded Schedule 2 and Schedule 3 chemicals by establishing a secure, authoritative distributed ledger to simulate transfers between hypothetical States Parties.

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

Funding Partner(s): Global Affairs Canada's Weapons Threat Reduction Program

Other Implementing Partner(s): N/A

Project Status: Recurring Activity/Engagement

Project Duration: 4 years

Point(s) of Contact: Christina McAllister, Senior Fellow & Director, Partnerships in Proliferation Prevention, cmcallister@stimson.org

Project 3 Name: Chemical Security Risk Reduction and Chemical Security Legal Index (ChemLexis)

Project Type: Preparedness/Response, Sharing/Best Practices, Legislative/Regulatory Assistance

Geographical Focus: Worldwide

Relevant CWC Articles Covered by the Project: Article VI

Project Description: This project seeks to enhance compliance with international obligations to secure chemical weapons-related materials and facilities by identifying how Member States approach implementation through national chemical security legal frameworks and by promoting the development of best practices in the field. The ChemLexis index serves as a tool for stakeholders to find real, open-source examples of laws and regulations on chemical security. These legal texts can be used to help governments determine practical approaches to enhance their national chemical

security practices. The Stimson Center seeks to help increase the relatively low levels of implementation of national measures to secure chemical weapons related materials in support of the objectives of the Chemical Weapons Convention (CWC) and the obligations of UNSCR 1540.

For more information, please visit <https://www.stimson.org/project/chemical-security-risk-reduction/>

Funding Partner(s): Canadian Ministry of Foreign Affairs, Trade and Development

Other Implementing Partner(s): N/A

Project Status: Complete

Project Duration: 2 years

Point(s) of Contact: Christina McAllister, Senior Fellow & Director, Partnerships in Proliferation Prevention, cmcallister@stimson.org

Project 4 Name: [Assistance Support Initiative](#)

Project Type: Preparedness/Response, Sharing/Best Practices, Legislative/Regulatory Assistance

Geographical Focus: Worldwide

Relevant CWC Articles Covered by the Project: Article VI

Project Description: This project aims to assist countries with implementing controls on chemical, biological, and nuclear weapons, related materials, and their means of delivery as outlined in the UNSC 1540 (2004). The Assistance Support Initiative's database of nonproliferation assistance activities is a unique tool for States to find relevant assistance and meet their 1540 obligations.

For more information, please visit <https://www.stimson.org/project/assistance-support-initiative/>

Funding Partner(s): Global Affairs Canada's Weapons Threat Reduction Program

Other Implementing Partner(s): N/A

Project Status: Recurring Activity/Engagement

Project Duration: 5 years

Point(s) of Contact: Christina McAllister, Senior Fellow & Director, Partnerships in Proliferation Prevention, cmcallister@stimson.org

SCHAR SCHOOL OF POLICY AND GOVERNMENT, GEORGE MASON UNIVERSITY

Type of Organization: Academia

Organization Description: George Mason University's Schar School of Policy and Government prepares undergraduate and graduate students to be leaders and managers who solve problems and advance the public good in all sectors and levels of government in the United States and throughout the world. Located where policy happens—just 3 miles from the Pentagon, 4 miles from The White House, and 6 miles from the U.S. Capitol Building—students are connected to jobs, internships, networking, and experiences that can only be found in the Washington, D.C., area.

For more information, please visit <https://schar.gmu.edu/biodefense-programs>

Organization Location: Arlington, VA

Project Name: Master of Science in Biodefense

Project Type: Border/Export Control, Emergency Preparedness/Response, Knowledge Sharing/Best Practices, Legislative/Regulatory Assistance, Network Development/Outreach

Geographical Focus: Worldwide

Relevant CWC Articles Covered by the Project: All

Project Description: George Mason University's Biodefense Graduate Program bridges the gap between science and policy by providing students with the knowledge and analytic skills to assess the risks posed by natural and man-made biological threats, weapons of mass destruction and terrorism, and to develop strategies for reducing these risks to national and international security. This 36-credit Master of Science (MS) in Biodefense is interdisciplinary with core courses on the biology and epidemiology of key biological threats, US and global health security programs and policies, and theory and methods. The broad array of electives offered by the program and the Schar School allow students to tailor their graduate education to focus on their academic and professional needs. The degree is ideal for those interested in careers in the public, private, and non-profit sectors at the nexus of health, science, and security. The MS can also be pursued entirely online. The online biodefense courses are offered in an asynchronous format – instructors make the class instruction available online for students to access at any time from any location. All of the biodefense courses are offered in-person and online on a rotating basis.

For more information, please visit <https://schar.gmu.edu/biodefense-programs>

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Active Implementation

Project Duration: 2-2.5 years

Point(s) of Contact: Gregory Koblentz, Director, Biodefense Graduate Program,
gkoblent@gm.edu

CONTRACTORS/PROFESSIONAL ASSOCIATIONS

BIOSECURE LTD

Type of Organization: Consultant/Independent Contractor

Organization Description: Biosecure has been working in the field of chemical and biological weapons non-proliferation since 2016. Its directors have a combined experience of almost 50 years in the field, working across civil society, international agencies, governments, and the private sector. Among its activities, Biosecure creates and implements effective educational materials, such as courses and strategies for diverse audiences with a particular emphasis on young scientists and on creating new carer pathways into the biological and chemical security field. With experience in victim assistance in the conventional arms field, Biosecure also stands ready to assist survivor groups better organize, strategize and advocate for their specific needs.

For more information, please visit www.biosecu.re

Organization Location: Cheltenham, UK

Project Name: Next Generation Biosecurity: Responding to 21st Century Biorisks

Project Type: Sharing/Best Practices

Geographical Focus: Worldwide

Relevant CWC Articles Covered by the Project: Articles I-XV

Project Description: This free massive open online course (MOOC) hosted on the FutureLearn platform is open to all audiences and is designed to provide learners with a comprehensive understanding of a variety of topics about the dual-use challenges inherent in the life sciences, including the increasing risks associated with the convergence of the biological and chemical sciences, local, national, and international responses to these biological risks, how to recognize and resolve ethical and security challenges that might arise, and the role and contribution of scientists and engineers in making sure that science and technology is used responsibly, safely, and securely. Constantly evolving since 2018, Next Generation Biosecurity discusses the history and potential future of biological and chemical weapons threats, including newer areas such as disinformation, misinformation, and cyberbiosecurity, as well as biosecurity and biosafety concepts and practices, relevant advances in the life and chemical sciences and enabling technologies, biorisk governance frameworks and mitigation practices both within and outside laboratory settings, the dual-use dilemma and the responsible conduct of science. With over 5000 learners so far, Next Generation

Biosecurity is the largest and most effective online course in the field of biological and chemical security to date.

For more information, please visit <https://www.futurelearn.com/courses/biosecurity>

Funding Partner(s): UK Government

Other Implementing Partner(s): University of Bath, UK

Project Status: Completed

Project Duration: 4 years

Point(s) of Contact: Kathryn Millett, Director, kathryn@biosecu.re, (0044) 7775 975088

INTERNATIONAL COUNCIL OF CHEMICAL ASSOCIATIONS (ICCA)

Type of Organization: Professional Association

Organization Description: The International Council of Chemical Associations (ICCA) represents chemical manufacturers and producers around the world. Our members account for more than 90 percent of global chemical sales, and more than 120 million people around the globe are employed directly or indirectly by our industry.

For more information, please visit <https://icca-chem.org>

Organization Location: Brussels, Belgium

Project Name: Joint Steering Committee and Chemical Industry Coordination Group between ICCA and OPCW

Project Type: Conference/Workshop, Knowledge Sharing/Best Practices, Technical Training, Network Development/Outreach

Geographical Focus: Worldwide

Relevant CWC Articles Covered by the Project: Articles VI, VII, and XI

Project Description: The Joint Steering Committee and Chemical Industry Coordination Group host regular meetings between representatives of the chemical industry and the OPCW. Topics include updates on each other's activities, mutual attendances at workshops, conferences, etc., and exchange of positions on developments in the operations of the OPCW. Additionally, ICCA is invited to speak at the plenary of every Conference of States Parties. Every year, the chemical industry participates in the flagship Associate Programme by hosting 32 scientists from developing countries for a two-week assignment. ICCA was heavily involved in publishing the "Indicative Guidelines for Chemical Safety and Security in Small and Medium-sized Enterprises to Foster the Peaceful Uses of Chemistry" and the upcoming "Indicative Guidelines on Transportation of hazardous chemicals and materials by road".

For more information, please visit <https://opcw.org/about/our-partners>

Funding Partner(s): ICCA and OPCW

Other Implementing Partner(s): International Chemical Trade Association

Project Status: Approved

Project Duration: Ongoing

Point(s) of Contact: William Garcia, Executive Director HSE and Responsible Care;
+32497448322

NON-PROFIT ORGANIZATIONS

ARGIQ

Type of Organization: Non-Profit Organization

Organization Description: ArgIQ is a non-profit Civil Association whose objective is to disseminate, through academic activities, the Information Quality methodology in Argentina and Spanish-speaking countries. Information is valuable, it is the pillar of decision making. The Information Quality methodology provides us with new tools for management, creating a new concept from data collection to its transformation into information and intelligence. All planning processes are aimed at decision, therefore, the information that feeds it requires adequate treatment. The accumulation of intelligence is organizational power to face the future. ArgIQ brings a new vision to information management and planning methods in all types of organizations. Applying this work methodology, and given the professional training of ArgIQ members, we carry out research and other academic activities in various areas, such as bioethics, biosafety, chemical and biological weapons, export control of dual and strategic materials, defense, strategy and problem-solving methodology. ArgIQ members are trained to advise organizations in the implementation of different tools, including information quality, to improve their management.

For more information, please visit https://www.argiq.com.ar/index_en.html

Organization Location: Buenos Aires, Argentina

Project 1 Name: Targeted Initiative on CBRN export control of dual use goods and technologies for Central Asia

Project Type: Border/Export Control, Responsible Science and Dual-Use Technology

Geographical Focus: Central Asia

Relevant CWC Articles Covered by the Project: Articles I, II, III, VI, and VII

Project Description: This targeted initiative looks to strengthen the local capacities in export control by working with academia and industry. In this project, we helped the countries to develop master's courses and modules on responsible science and export controls.

For more information, please visit <https://istc.int/export-control>

Funding Partner(s): European Union

Other Implementing Partner(s): International Science and Technology Center (ISTC)

Project Status: Long Term/Multi-Year Activity/Engagement

Project Duration: Over 6 years

Point(s) of Contact: Henk Visser, Senior Program Manager

Project 2 Name: Targeted Initiative on CBRN export control of dual use goods and technology in GUAM countries (Georgia, Ukraine, Azerbaijan, and Moldova)

Project Type: Border/Export Control, Responsible science and dual-use

Geographical Focus: Georgia, Ukraine, Azerbaijan, and Moldova

Relevant CWC Articles Covered by the Project: Articles I, II, III, VI, and VII

Project Description: This targeted initiative looks to strengthen the local capacities in export control by working with academia and industry. In this project, we helped the countries to develop master's courses and modules on responsible science and export controls.

For more information, please visit <http://www.stcu.int/tiexpcontrol/index.php>

Funding Partner(s): European Union

Other Implementing Partner(s): N/A

Project Status: Long Term/Multi-Year Activity/Engagement

Project Duration: Over 6 years

Point(s) of Contact: Elena Taberko, Senior Program Manager

INDEPENDENT EXPERTS/ACADEMICS

ALASTAIR HAY

Type of Organization: Individual

Organization Description: I work on my own and have worked on chemical weapons issues for over 40 years. I campaigned for a CW treaty in the 1980s and since it became international law, have worked to support it. I currently do talks and run workshops on behalf of the OPCW covering topics around education, ethics, safety and security, and the role of chemists. I have conducted 6 investigations of allegations of use of chemical weapons, invariably as a team member, and have published all findings. I was a member of the OPCW Advisory Board of Education and Outreach from 2016-2021 and currently am an alumni member of this group. I also chair the Chemical Weapons Convention Advisory Committee in the UK, a committee which meets twice a year and brings together civil servants from all government departments involved with the CWC as well as representatives of the chemical industry and academia.

Organization Location: Leeds, UK

Project Name: OPCW and CWC Workshops

Project Type: Conference/Workshop, Knowledge Sharing/Best Practices, Technical Training, Network Development/Outreach

Geographical Focus: Worldwide

Relevant CWC Articles Covered by the Project: All

Project Description: I have run many workshops over the years for the OPCW broadly around education and outreach themes. The workshops have been with members of National Authorities, young chemists, or different groupings of students and members of academe. I have also done many talks for the OPCW on a wide range of topics germane to the CWC.

Funding Partner(s): Self-funded

Other Implementing Partner(s): N/A

Project Status: Long Term/Multi-Year Activity/Engagement

Project Duration: 40 years

Point(s) of Contact: Alastair Hay, Professor (Emeritus) of Environmental Toxicology, a.w.m.hay@leeds.ac.uk, 00 44 7711 715566

STEFANO COSTANZI

Type of Organization: Individual

Organization Description: Dr. Stefano Costanzi is a Professor of Chemistry at American University, in Washington, DC, where he is also the Director of Graduate Programs for the Chemistry Department and the Director of the Science and Policy Undergraduate Certificate. Prior to joining American University in 2012, he worked for ten years at the National Institutes of Health in Bethesda, MD. His educational background spans both chemical sciences and international affairs, holding a Laurea degree in Chemistry and a PhD in Medicinal Chemistry from the University of Camerino, Italy, and a Master of International Service degree from American University's School of International Service.

For more information, please visit <https://www.american.edu/cas/faculty/costanzi.cfm>

Organization Location: Washington, DC, USA

Project Name: Chemical Weapons Nonproliferation

Project Type: Teaching and Research

Geographical Focus: Worldwide

Relevant CWC Articles Covered by the Project: The Chemical Weapons Convention full treaty text

Project Description: Dr. Costanzi's teaching and research interests are primarily centered on the countering of chemical weapons. He seeks to identify and analyze gaps in current policies and practices that permit the proliferation of chemical weapons, with the goal of conceptualizing and developing solutions and tools to mitigate them, based on a blend of chemistry, information technology, and science-based policy. Beyond chemical disarmament and nonproliferation research, Dr. Costanzi's work also focuses on the application of computational chemistry approaches to the study of G protein-coupled receptors, which are the cellular targets of numerous prescription drugs and, either directly or indirectly, virtually all drugs of abuse. Dr. Costanzi is a member of several international organizations that work at the intersection of science and policy to combat the proliferation of chemical and biological weapons, including the International Center for Chemical Safety and Security Global team, the Scientists Working Group on Biological and Chemical Security, and the Chemical Weapons Convention Coalition.

For more information, please visit <https://costanziresearch.com/cw-nonproliferation/>

Funding Partner(s): N/A

Other Implementing Partner(s): N/A

Project Status: Active Implementation

Project Duration: Unlimited

Point(s) of Contact: Stefano Costanzi, costanzi@american.edu