



Second Warsaw Conference

**Reducing chemical threats and enhancing chemical safety and security**

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"Program on identification and neutralization of improvised chemical devices"

Terrorists could use dramatic methods, as an aircraft attack or a false shipping order to kill people and terrorize societies by attacking chemical plants, refineries, chemical storages. Most of them are in populated areas across the country. There are thousands of facilities in every country, which store or use chlorine, hydrofluoric acid and many other chemicals, the release of which could be very dangerous. These facilities require special security measures.

The recent use of chemical weapons, including toxic chemicals like chlorine as weapons in Syria, and growing use of toxic chemicals and explosive materials in the terrorist activities and other crimes, proved that such illegal weapons resulted in mass killings and many victims, disruption of social life, and lead to the economic burdens to society more than other terrorist acts.

It is well known that Improvised Explosive Devices (IED) are the most dangerous and common weapons used by terrorists all over the world. The tremendous threat, which is created with this kind of weapons would be much higher if terrorists will use the Chemical Improvised Explosive Devices (Chem-IED). These devices can be much smaller, smarter and more effective in mortality and psychological effects than classical IED. At present many governments and first responders are not prepared for such situations and there is a real need for training, as many as possible, international experts for facing such situations.

Military University of Technology / [www.wat.edu.pl/](http://www.wat.edu.pl/), the ICCSS /[www.iccss.eu/](http://www.iccss.eu/), together with and Military Institute of Engineer Technology, Poland /[www.witi.wroc.pl/](http://www.witi.wroc.pl/), and with NATO sponsorship have developed and conducted the NATO Advanced Training Course

(ATC) on "Identification and Neutralization of Chemical Improvised Explosive Devices" for promoting the higher level of security for societies all over the world. The main goals of the ATC was to enhance awareness on security developments including advanced technologies, methodologies and best practice in preparing the governments and societies to establish much lower level of vulnerability and much higher level of resilience in the case if using Chem-IED. The course will be held from 26 to 30 May 2014 at the Military Institute of Engineer Technology (WITI), Wrocław, Poland. The ATC on Chem-IED was a first initiative to raise capacity in preparedness and first response to Chem-IED incidents and will have several impacts on security in general.

The outcome of the ATC was a set of conclusions and recommendations for governments and international organizations to establish a network of experts for further developments of approaches for successful countermeasures against Ch-IED. As post ATC activities the publication of the results, evaluation, conclusions and recommendations of the ATC will be issued as a book.

**Following the course and in cooperation with the participants and trainers, Military University of Technolog, the ICCSS, Military Institute of Engineer Technology, Poland, the Polish government institutions and the international partners, initiated, under the ICCSS coordination, the development of a specialized international program to mitigate the risks of Chem-IED's.** A specialized international program to mitigate the risks of Chem-IED's will improve the international awareness and preparedness for response to terrorist attacks, in which classical Improvised Explosive Devices (IEDs) are combined with chemical charge (Chemical Warfare Agents –CWA).

The program will offer sustainable and continued training courses and best practices exchanges to civilian and military first responders, antiterrorist unit members and others, who deal with the threat of Chem-IED. The program will offer the "train-the-trainer" approach for participants who are in a position and ready to share the gained knowledge and expertise in their home country.

The overarching objective of the program will be enhancing public security through a promotion advanced technologies, methodologies and best practices in preparing the respective governmental agencies to respond in the case of facing the threat of Chem-IEDs. The specific objectives evolve around training as a method of acquisition, collection and dissemination of the knowledge in order to prevent and manage the consequences of the use of Chem-IEDs. Training of first responders and other personnel involved in emergency planning on materials and best procedures will constitute a direct action in the area of public security prevention. The proposed program will raise directly security preparedness and response capacity of the respective state services.

A specialized international program to mitigate the risks of Chem-IED's will help develop security standards matching international requirements, improving interoperability and effectiveness of international cooperation in this area. NATO countries will benefit from greater compatibility between security systems of participating countries, as well as, more effective international cooperation in counter-terrorism operations.

The program will provide the base knowledge on devastating effects of explosion of Chem-IEDs, properties of explosives, toxicity of Chemical Warfare Agents (CWA) and other hazardous materials, detection, protection, disposal and clean-up after the explosion. The program will target the scenarios of using such weapons, methods of non-destructive evaluation and detection, countermeasures to be undertaken, safe neutralization and disposal techniques.

The methodology of the program will be based on lectures delivered by top ranked experts, laboratory exercises, with methods of non-destructive evaluation and detection of Chem-IED's, field exercises for training using light and heavy armored bulldozers, robots, personal protection, decontamination on-site and off-site, equipment. Special attention will be paid on seminars, brain storming and discussions between participants on the risk assessment, risk analysis, and risk reduction measures to be undertaken in the case of using Chem-IEDs.

In general, in the elaboration of the specialized international program to mitigate the risks of Chem-IED's we will seek to achieve the following objectives:

- Preparation of the methodology of courses dealing with multifaceted threat;
- Finding synergies between different fields of expertise involved in Chem-IED;
- Increase capacity of NATO and Partner countries to countermeasure threat of malicious use of toxic chemicals;
- Standardize approaches and procedures resulting in enhanced interoperability in case of seeking assistance and Develop of security standards matching international requirements;
- Ensure greater compatibility between NATO, EU and participating countries in response against CBRN threats.

We invite you to join the development of the specialized international program to mitigate the risks of Chem-IED's. We are developing an international planning meeting for the program development. The further information will be available soon at the ICCSS website ([www.iccss.eu](http://www.iccss.eu)).