

The Global Summit on Chemical Safety and Security

followed by 2017 China Petroleum & Chemical International Conference (CPCIC)



CHEMSS

www.chemss2017.org

Shanghai, China, 19-20th September 2017

Chemical and process safety and security

within the Belt and The Road Initiative

Developing Seminars and Courses to enhance technical, chemical and environmental cooperation

Introduction

1. In the realm of globalization and growing interdependence in all areas of international cooperation, chemical safety and security and environmental protection have become leading factors in shaping international security, as well as economic cooperation and development policies. They have also become an important element in bilateral and multilateral relations in the spheres of security, economy and development.
2. The Belt and Road initiative is an open framework that connects Asia with Europe and Africa; any country interested in the initiative is welcome to join.” The Silk Road Economic Belt and the 21st-century Maritime Silk Road, also known as the Belt and Road Initiative (BRI) and The Belt and Road (B&R), is a development strategy that focuses on connectivity and cooperation between Eurasian countries, primarily China the land-based Silk Road Economic Belt (SREB) and the oceangoing Maritime Silk Road (MSR). The coverage area of the initiative is primarily Asia and Europe, encompassing around 60 countries. Oceania and East Africa are also included. **Green Silk Road** will deepen cooperation in environmental protection, implement the idea of green development, and intensify ecological preservation. **Intelligent Silk Road** will deepen human resource cooperation, China has proposed a vocational skills cooperation alliance to train and produce professionals in various fields.
3. One of the leading areas of the China’s trade, technical and industry cooperation with countries along the One Belt and Road, are chemistry and environment. China’s One Belt One Road initiative is an excellent opportunity to enhance peaceful uses of chemistry and promote chemical and environmental safety and security in the countries which support this important program. One Belt One Road initiative offers new ways to promote economic prosperity through international cooperation. I encourage to promote the peaceful use of scientific and technological development in chemistry, including chemical safety and security, within One Belt One Road initiative. Since chemical safety and security and protection against chemical threats are becoming more and more important issues, there is an urgent need to promote the technical cooperation, best practices and capacity building in chemical and environmental safety and security.
4. The China Petroleum and Chemical Industry Federation (CPCIF) and the International Centre for Chemical Safety and Security (ICCSS) – www.iccss.eu have established partnership in enhancing peaceful uses of chemistry and promoting technical and chemical and environmental safety and security globally, with an emphasis on the countries which support One Belt One Road initiative. The proposed program will cover the mining industry, energy sector, chemical industry and environment.

CHEMSS2017 - Polish-Chinese Leadership In moving global chemical and environmental safety and security



China Petroleum and Chemical Industry Federation
Building No. 16, siqu, Anhuili Asian Games Village,
Beijing, China, 100723
Tel: + 86 10 84885415 ; www.cpcif.org.cn



International Centre for Chemical Safety and Security
Leszno 8/1 Street, 01-192 Warsaw, Poland
Tel: +48 22 436 20 44
www.iccss.eu

1. Poland and China have taken the lead in the development of comprehensive approaches to introducing and integrating chemical safety and security in national security and economic policies and to sharing their experiences worldwide. They cooperate closely through industry organizations and civil society. These fruitful contacts have resulted in the development of closer Polish–Chinese co-operation and in the preparation and conduct of the second global summit on chemical safety and security, CHEMSS2017 www.chemss2017.org, held in Shanghai on 19-20 September, 2017.
2. CHEMSS2017 is a visible confirmation that the Chinese Government has made the green, sustainable development of the chemical industry a national strategy. The Chinese Government has set up special safety and environmental regulatory authorities, to enhance chemical safety and environmental laws and standards. In recent years, the Chinese Government, industrial organizations and enterprises have worked together to take a series of measures to increase the intrinsic safety level of the chemical industry. The CPCIF has proactively participated in the special inspection of safe production launched by the Inspection Office of the General Office of the CPC Central Committee and has proposed suggestions on enhancing safe production. China Petroleum and Chemical Industry Federation (CPCIF) - www.cpcia.org.cn has also made efforts in the following aspects: actively implementing Responsible Care initiative, carrying out rules training and self-assessment of Responsible Care initiative, carefully focusing on serious accidents of safe production, arranging experts to assess the safety of relevant equipment and facilities, solving the problem of managing chemicals and hazardous waste in a coordinated manner, advancing government's establishment of exemption list and exclusion list systems, and guide enterprises to strengthen self-discipline.
3. The CHEMSS2017 Declaration endorses the International Program on technical cooperation, best practices and capacity building in chemical and environmental safety and security within the Belt and The Road Initiative. The China Petroleum and Chemical Industry Federation (CPCIF) and the International Centre for Chemical Safety and Security (ICCSS) – www.iccss.eu will develop the detailed modalities and organize in the end 2017 an inauguration seminar and training in Poland, to initiate practical cooperation promoting technical and chemical and environmental safety and security in the countries which support One Belt One Road initiative. The proposed program will cover the mining industry, energy sector, chemical industry and environment.

Basic assumptions on the Program

1. The recent chemical accidents and catastrophes in different countries around the world and a growing threat of misuse of toxic chemicals for illegal purposes, raise the importance of introducing effective chemical safety and security systems. An effective chemical safety and security culture can result in a significant increase in the effectiveness of the safety and security of chemical material and associated facilities and transport. Increased effectiveness of chemical safety and security systems could deter non-state actors in is terrorist attacks with use of toxic chemicals.
2. Many countries need assistance to implement legal and administrative frameworks, regulatory measures and operational programs to reduce chemical and environmental threats and regulate petrochemicals, LNG operations, and chemicals. Petrochemical and chemical companies have to develop and introduce corporate policies and sound practices to strengthen these government efforts. Furthermore, civil society shall provide competent advice and actively support the goals of safety and security and environmental protection.

3. Complying with the environmental protection standards and ensuring chemical safety and security became an important condition in the research, manufacturing and trade of chemicals. Strengthening the chemical safety and security is an important element of critical infrastructure protection.
4. Chemical safety and security and environmental protection are more and more interlinked with internal and external security, public health protection, economic and trade cooperation, as well as development and humanitarian policies. Chemical safety and security is no longer treated as an expense today but rather as an important investment in the peaceful uses of chemistry as part of security, economic, trade, research and development cooperation.
5. These efforts should be implemented and operationalized internationally, particularly in developing countries and countries with emerging economies. Chemical and environmental safety and security will constitute an important element of the cooperation within **the Belt and The Road Initiative**.

PROGRAM OBJECTIVES:

The program has the following objectives:

1. Sharing of national expertise/knowledge on technical, chemical and environmental safety and security and process safety procedures, activities and operations;
2. Bringing together all the relevant national and international stakeholders from governments, industry, academia, and NGO's, to exchange and present the existing training and best practices exchanges potential;
3. Disseminating the best practices in technical, chemical and environmental safety and security among Participants and their industries and other stakeholders; and
4. To provide the participants with necessary know-how on procedures and practices in sustainable chemistry.
5. To conduct general courses on chemical and environmental safety and security, based on the national and industry requirements and specifics.

THE EXPECTED RESULTS OF THE PROGRAM INCLUDE:

1. Increased awareness of requirements and best practices in chemical and environmental safety and security, sustainable chemistry and process safety;
2. Training on the proper techniques and practices in the areas of chemical safety and security will be offered in the development of the general curriculum of the training course for chemical safety and security;
3. The program will assist to disseminate training materials for relevant National Authorities, scientists, laboratory managers, and chemical industry on best practices in chemical security and chemical safety;
4. The program will increase the practical engagement of the relevant national stakeholders to implement the provisions of the Chemical Weapons Convention and other relevant international provisions including Chemical Conventions and UNSCR 1540.

5. The core element of the program is the development and conduct of the general courses on chemical and environmental safety and security sustainable chemistry and process safety.

ORGANIZATION AND LEADING PARTNERS

1. The program is coordinated by the by the China Petroleum & Chemical Industry Federation (CPCIF), International Centre for Chemical Safety and Security ((ICCSS), and co-hosted by the relevant national and international partners.
2. The proposed Seminar and basic course will be co-organized by the CPCIF and ICCSS, in cooperation with the relevant national and international partners.
3. The Seminar will include presentations and statements from national and International experts on chemical safety and security on the state of play of chemical safety and security, national and international programs in these areas including efforts against chemical terrorism, and discussions, followed by agreeing on proposals for the content of general basic course on chemical safety and security the developing chemical safety standards.

Developing One Belt One Road Seminar and basic courses to enhance technical, chemical and environmental safety and security and process safety

The proposed national Seminars to enhance chemical and environmental safety and security, including basic course on chemical and environmental safety and security will bring together national policy and opinion makers, and experts from governments, industry, academia, and NGO's, in the areas of chemical safety and security to promote national and industry capacity building based on sustainability, continuity and modern management.

Template for One Belt One Road Seminar Program

Day 1 Enhancing technical, chemical and environmental safety and security and process safety

Welcome by ICCSS, CPCIF and national co-host

Keynote statement 1: "National policies and practices to enhance chemical safety and security and environmental protection

Keynote statement 2: "Chemical Safety and Security in the world: Present Situation, Challenges & Cooperation Opportunities"

Keynote statement 3: "Opening new opportunities and areas for the development of innovation and export-orientation of the national economy"

Keynote statement 4: "Increasing the level of technical safety in the petrochemical industry through modern and competent execution of international standards, best practices and evaluation and improvement of technical culture"

Keynote statement 5: Development of integrated approach to chemical and ecological safety and security - promoting integrated impact assessment

Keynote statement 6: "Program to promote local awareness and responsibility in chemical safety and security - enabling local governments and actors to meet the safety and security challenges"

Keynote statement 7: "Developing the best practices and evaluation and improvement of technical culture within the LNG operations"

Concluding session: Developing cooperation synergies with the national partners to enhance chemical safety and security and environmental protection.

Day 2 Training course on chemical and environmental safety and security and process safety

Implementation of the practical elements of chemical safety and security management

- 2.1. Module: Law of chemical safety. Focus on International Conventions
- 2.2. Module: Chemical safety - general issues
- 2.3. Module: Chemical Process
- 2.4. Module: Chemicals in and enterprise
- 2.5. Module: Classification and labelling
- 2.6. Module: Packaging
- 2.7. Module: Transport of hazardous substances
- 2.8. Module: Chemical Wastes
- 2.9. Module: Chemicals around us

Table top exercises (TTX) - Unique methodology for assessment of progress:

Among the different elements in the educational and learning process the TTX occupies a pivotal role. It enables assessment of capability after a partial and or complete training program, by evaluating that knowledge, proficiency and adequacy of practices, procedures, emergency plans, communications and critical thinking and decisions processes are supportive of timely and responsive Chemical Safety and Security actions.

The TTX's utility extends beyond the local Industry and is inclusive of state, public and other private sector entities where their roles, responsibilities, available resources and capabilities are aligned as an integrated whole. In this regard the TTX is tied to each of the different participant groups and their respective training modules. It allows not only the assessment of knowledge acquired by specific groups but also how the entire community whether local or professional, and its acquired knowledge interact as a well-coordinated whole to avoid risks and respond to Chemical safety and security incidents

Profile of Participants

The Seminar and training course are designated for:

- a. National agencies representatives;
- b. Industry representatives;

- c. National experts on chemical safety and security;
- d. National associations and chemical industries;
- e. Government experts from law enforcement, border controls and export controls;
- f. Laboratories.

About the Leaders and the Organizers of the Program

ICCSS - The International Centre for Chemical Safety and Security (ICCSS) – www.iccss.eu was established in October 2012 as an independent non-profit organization, based in Warsaw, Poland. The ICCSS supports the development of national and international networks of chemical safety and security officers from national agencies, international organizations, industries, and civil society. The ICCSS is an international leader to operationalize and internationalize best practices and capacity building.

About the Organizers

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International Centre for Chemical Safety and Security

St. Leszno 8/1, 01-192 Warsaw

E-mail: info@iccss.eu

Phone: +48 22 436 20 44

www.iccss.eu



CPCIF China Petroleum and Chemical Industry Federation - www.cpcia.org.cn is a non-government, not-for-profit organization consisting of companies, institutes, sectional associations and local associations in the petroleum and chemical industry on the voluntary basis. CPCIF is the umbrella organization that provides service and implements certain administrative functions within this industry on the national level.