

One-day Workshop on

**EMERGING CHALLENGES: CHEMICAL SECURITY RISK  
MANAGEMENT AND REMEDIATION OF CONTAMINATED SITES**

on 1 December 2016 at Taj Coromandel, Chennai

Indian Chemical Council (ICC) and US Chemical Security Programme (USCSP) in cooperation with American Chemistry Council and Sandia National Laboratory, USA is organizing a One-Day Workshop on "**EMERGING CHALLENGES: CHEMICAL SECURITY RISK MANAGEMENT AND REMEDIATION OF CONTAMINATED SITES**" on 1 December 2016.

The venue of the Workshop is **Clive Duplex, Taj Coromandel, 37 Mahatma Gandhi Road, Chennai – 600 034.**

The Brochure of the event is enclosed for your information.

The International experts from Belgium and U.S.A. will be participating in the Programme and will be making Presentations.

**MR. DANIEL ROCZNIAK**

Mr. Daniel Roczniak is a Senior Director, Responsible Care & Value Chain Outreach, American Chemistry Council.

Mr. Roczniak has assisted ACC member and Partner companies in the implementation of the Responsible Care initiative in their operations. Currently, he manages ACC's Responsible Care third-party certification process. His responsibilities include providing implementation assistance for companies preparing for certification; liaison with auditing firms and their accreditation bodies; and organizing training and workshops for ACC company personnel. In addition to the ACC's certification program, Mr. Roczniak manages implementation of the ACC's Responsible Care Security Code.

Since 2010 Mr. Roczniak has been working with the Indian Chemical Council to enhance its existing Responsible Care program. Prior to his work in India, he led ACC's assistance efforts to the Dubai-based Gulf Petrochemicals and Chemicals Association (GPCA) as it launched its Responsible Care program. Mr. Roczniak is active in the International Council of Chemical Associations' (ICCA) Responsible Care Leadership Group and has organized industry workshops and other events in South America, the Middle East and Asia.

**PHILIPPE MULLIER**

Dr. Philippe Mullier is a Former Executive Vice President, Solvay.

Dr. Mullier is a Chemical Engineer and PhD in Applied Sciences (University of Louvain, Belgium), Business Administration Degrees (University of Louvain, Belgium and International Institute for Management Development Lausanne, Switzerland).

Dr. Mullier joined the Solvay Group in 1987. During his 26 years career within Solvay, Philippe took the responsibility of different operations in the fields of Biotechnology, Monomers, Polymers and Active Pharmaceuticals Ingredients. In the last ten years he joined the Corporate Headquarter of Solvay to be in charge of the Health, Safety & Environment functional direction of the Group, as Executive Vice President. Philippe left the Solvay Group in 2013 to found ALEPH CARE sprl, Belgium based consulting.

As Executive Vice President of Solvay, Dr. Philippe Mullier deployed a comprehensive and ambitious policy of pro-active risk based management in all domains of HSE. With the aim to bring his personal contribution to environmental progress in India, Philippe initiated a Knowledge sharing program with the Gujarat Pollution Control Board and the Indian Chemical Council. Basis for this program has been laid down in a tri party Memorandum of Understanding undergone during the last Vibrant Gujarat by Aleph Care and Indian Chemical Council with Forest and Environment Department, Government of Gujarat, and executed to exchange knowledge between experts and Gujarat Pollution Control Board, under the aegis of ICC.

**REGISTRATION FEE:**

Registration fees for the Workshop will be **Rs.1,725/- per delegate (including 15% Service Tax)**. Kindly draw the Cheque / Demand Draft for the requisite amount in favour of "**Indian Chemical Council**".

**SPONSORSHIP:**

We request members to consider partnering the Workshop, as per detailed given below:

Platinum Partner	Rs. 3,00,000/-	6 Complimentary Registration
Gold Partner	Rs. 2,00,000/-	4 Complimentary Registration
Silver Partner	Rs. 1,00,000/-	2 Complimentary Registration
Lunch / Dinner Partner	Rs. 50,000/-	1 Complimentary Registration

We request all members to attend this important Workshop and take advantage of same.

*For more details and Registration, please contact:*

**Mr. K. Kalyanaraman**  
**Regional Secretary**  
**INDIAN CHEMICAL COUNCIL**  
**23/7, Bala Kavi Apartments, 3<sup>rd</sup> Floor**  
**Thiru-Vi-Ka 3<sup>rd</sup> Street**  
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**Mylapore**  
**CHENNAI – 600 004**

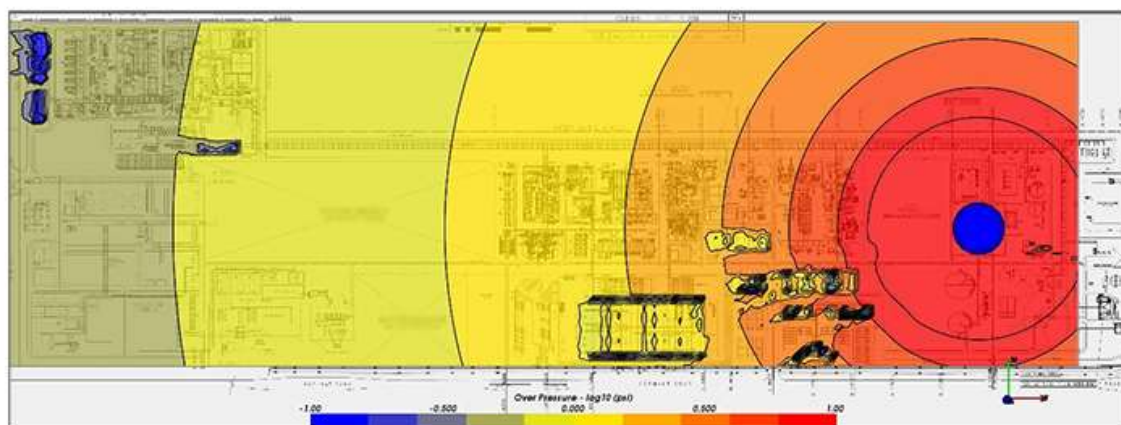
via e-mail : [kalyanpsk2012@gmail.com](mailto:kalyanpsk2012@gmail.com) / [iccsro@iccmil.in](mailto:iccsro@iccmil.in); Tel: 044-24996326 / 24994730

**on or before Tuesday, 29 November 2016.**





*One-Day Workshop on*  
**Emerging Challenges: Chemical Security Risk  
Management and Remediation of  
Contaminated Sites**



Vapor Cloud Explosion Overpressure Contours with Shielding Effects

**Venue:**

Clive Duplex  
Taj Coromandal, 37 Mahatma Gandhi Road  
**Chennai - 600**

**Date: December 1, 2016**

**Organizers**

**Indian Chemical Council and  
US Chemical Security Programme  
in association with  
American Chemistry Council, USA  
Sandia National Laboratory, USA**

## Chemical Security Risk Management

The manufacturing, use, storage, and distribution of chemicals must be secured from threats including terrorism and accidents. Some chemical facilities possess materials that could be stolen and used to make weapons. A successful attack on certain high-risk facilities could cause a significant number of deaths and injuries. The impacts of an accident or attack are far-reaching and can occur in a variety of ways.

Ensuring chemical security and resilience is critical to the wellbeing and safety of the Nation.

Safety management system focuses on management of accidental risk from design failures and operating actions leading to unnecessary hazards. There is a strong business case for implementing major hazards safety management systems, as the value is in preventing the loss of lives, preserving the integrity of operations and protecting the environment. Safety management systems are well developed over the past 40+ years.

Whereas security management is a system to ensure the security of the chemicals to protect workers, the public, and the environment from harm. As such, aims for preventing or minimizing the consequences of intentional malicious releases of toxic, reactive, flammable, or explosive chemicals. Besides, security of chemicals to reduce the risks of exposure from misuse of chemicals (theft, diversion, abuse).

Unfortunately, chemical were misused by individuals and groups with malicious intent i.e. i) Weapons of war; ii) Terrorist weapons; and iii) Criminal weapons. This very potential of the chemicals can be reduced by a structured approach for security management, that explores threat analysis, chemical risk based prioritization, inventory management, security risk and vulnerability assessment and security enhancement in respect of physical, personal, transportation and information.

The Workshop facilitates the participants to understand the importance and approach for chemical security risk assessment and management. Besides, it offers an opportunity to discuss on specific concerns of the participants.

## Remediation of Contaminated Sites: An emerging Challenge in India

The Central Pollution Control Board brought out a document on "Implementing Liabilities for Environmental Damages due to Spillage/Fire/Illegal Disposal of Hazardous Waste and Penalty". Some important provisions include:

1. Indian criteria for soil quality/ target values are yet to be evolved to define some part of soil as contaminated worth cleanup.
2. The retroactive considerations being proposed for liability will have serious consequence on the industries.
3. No criteria are defined to classify the purview of civil or criminal domain for episodal pollution (Toxicity, reversible/irreversible damage etc.). Whereas referring to fines/penalties for gross negligence and criminal penalty for statutory or regulatory non-compliance (*Last para on Page 11*).
4. **50 liters of liquid HW and 200 Kg of solid HW requires environmental site assessments.**
5. Impacts can be classified into direct and in direct. Many countries consider only direct impacts..., such clarity is important in defining liability.
6. The Report attempted to push the entire liability on to the industry
7. Giving enormous powers to local Officer to judge level of concern
8. Many operational provisions/roles and responsibilities of the stakeholders, penalties and provisions for collecting more money etc....

Subsequently, the Government of India brought out draft Environment Laws (Amendment) Bill, 2015 on October 7, 2015. The said draft was discussed at length by the chemical industry and ICC collectively represented the reservations of the industry to the MoEF&CC, for factoring them.

While this draft is still with MoEF & CC, the provisions of the draft demand gaining knowledge and implication of enforcing them on chemical industry as an abundant precaution and preparedness.

ICC considers this as one of the priority area for dissemination of western experiences on the subject from concepts to case studies.

The Workshop would benefit the participants in understanding risk based remediation of contaminated sites, which is essential for all chemical operating facilities, if the proposed threshold quantities of spills are of any indication.

With this background ICC proposed One-Day Workshop on “Emerging Challenges: Chemical Security Risk Management and Remediation of Contaminated Sites” in Hotel Taj Coromandal, Chennai.

## Tentative Schedule of the Programme

Venue: Taj Coromandal, Chennai

December 1, 2016 Thursday		
08.30-09.00 Registration		
Session-I	Inauguration	
9.00 – 9.10	Welcome and opening remarks	Mr. P. M. C Nair, Chairman ICC-Southern Zone
9.10 - 9.30	Key note address: Global Evolution of Chemical Security Risk Management Programme	Dr. Daniel Rocznik, Senior Director, American Chemistry Council
9.30 - 10.15	ICC and its focus on chemical security risk management and emerging regulatory instruments for remediation of contaminated sites	Mr. N. Sateesh Babu, Director - Environment, Sustainability and Regulatory Issues
	Lighting of lamp	Mr. P. M. C. Nair, Mrs. Priya Sethi, Dr. Daniel Rocznik, Dr. Philippe Mullier Dr. Cecelia Williams, + Other dignitaries
	Address by the dignitaries	
	Vote of Thanks	
10.15 - 10.30 Coffee / Tea Break		
Session 2	Chemical Security Risk Management Chair: Dr. Daniel Rocznik, Senior Director, ACC	
10.30 - 11.15	Chemical Security Risk: threat analysis, inventory management, risk based prioritization, security vulnerability assessment and security enhancements	Dr. Cecelia Williams, Sandia National Laboratory, USA
12.00 - 1.00	Exercises and discussions	
1.00 - 2.00 Lunch Break		
Session 3	Environmental Site Assessments and Pre-remedial Investigations Chair: Mr. Peter Gambill, USCSP	
2.00 - 3.15	Risk Based Management of Contaminated Sites: Approach and Overview of Techniques	Dr. Philippe Mullier, Former Executive Vice President, Solvay
3.15 - 3.30	Question & Answer Session	
3.30 - 3.45 Coffee / Tea Break		
Session 4	Contaminated Sites: Case Studies Chair: Mr. N. Krishnamurthy, ED, Sanmar Group & Member Exec. Committee, ICC	
3.45 - 4.15	Chromium Contaminated Site: Case Study of Ranipet, Tamilnadu	TNPCB/ ERM
4.15 - 5.00	Risk-based Management of Contaminated Sites: European Experiences	Dr. Philippe Mullier, Former Executive Vice President, Solvay
5.00 - 5.10	Vote of thanks	



**'Responsible Care' - A Way Forward for Sustained Business Growth**