

8TH CCPS
GLOBAL
SUMMIT
ON PROCESS SAFETY



CONFERENCE PROGRAM

Organized by:



8th GSPS Conference Program [Draft] Updated as on 15 October 2024

About the summit

The 8th GSPS is a premier global event organized by American Institute of Chemical Engineers' (AIChE's), Center for Chemical Process Safety (CCPS) that brings together industry leaders, regulators, process safety practitioners, and academia from around the world to address critical advancements and challenges in chemical process safety.

The objective of the conference is to share the best practices & lessons learned from past incidents that happened in the chemical & energy sector. Sharing such knowledge & experience will be useful in preventing and mitigating catastrophic incidents across industries. It promises to be an engaging platform with a comprehensive program, featuring keynote speakers, Leadership panel discussion, technical panel discussion, 40 plus innovative technical presentations spread across 15 sessions along with poster sessions.

Program Highlight



Brief History of the summit





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25 November: Pre-conference workshop for Small and Medium Scale Industries [Venue JWC Conference Room]			
Welcome Reception, Venue: Jasmine 2 (Level-3)			
Day 1- 26 November (Tue)			
<u>Registration from 7.00 to 8.30 am</u> [Venue: Jasmine 2]			
8.30-8.45 am	Conference Inaugural- Lamp Lighting Ceremony		
8.45-9.00	Opening Remarks <ul style="list-style-type: none"> - Shakeel Kadri – Executive Director & CEO- Center for Chemical Process Safety (CCPS), USA - Yatendra Lodha- Group Head- Safety & Operational Risk, Reliance Industries Limited - Special Remarks by Indian Chemical Council (ICC) 		
9.00-9.05	Introductions to Chief Guest and Dignitaries on Dias		
9.05-9.25	Welcome Address Sanjiv Singh - Head-Group Manufacturing Services, Reliance Industries Limited		
9.25-9.45	Address by Chief Guest (Invited)		
9.45-10.05	Keynote Address – Shakeel Kadri, Executive Director & CEO, CCPS		
10.05-10.25	Keynote Address – Vartika Shukla, Chairman & Managing Director, Engineers India Limited		
10.25-10.45	Keynote Address – Dr. Fawaz K. Bitar, Senior Vice President of Health, Safety, Environment & Carbon at BP		
10.45 - 11.15	Poster Session, Coffee & Networking		
11.15 - 12.45	Leadership Panel Discussion Topic: The role of leadership to address challenges in creating effective Process Safety Moderator: Mr. Yatendra Lodha- Group Head- Safety & Operational Risk, Reliance Industries Limited Panel Members: <ul style="list-style-type: none"> • Mukesh Kumar Surana, Ex. Chairman & MD of Hindustan Petroleum Corporation Limited • Dr Fawaz K Bitar, Senior Vice President-Health, Safety, Environment & Carbon, BP • Shakeel Kadri, Executive Director & CEO, CCPS • Stephen Klejs, Executive Director, US Chemical Safety and Hazard Investigation Board • Jayanta Banerjee, Group Chief Information Officer, Tata Steel Limited “Global Lighthouse Network” (Industry 4.0) by World Economic (Invited) • Operation Leader (RIL) • (PSU (IOCL/BPCL) (To confirm the name) 		
12.45 - 1.45	Lunch break / Poster Session		
1.45 – 4.45	Leaders' Forum on Process Safety- Theme: Process Safety at Senior Leadership Level – “How I drive Process Safety in my organization” [Venue: Special Conference Room] Moderator: Shakeel Kadri – Executive Director & CEO, CCPS, Participating Leaders: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <ol style="list-style-type: none"> 1. Yatendra Lodha (RIL), India 2. Arun Mittal (OISD), India 3. David Moore (AcuTech), USA 4. Ramabhadran Srinivasan (DSS), Singapore 5. Ahmed Shaheen Al-Khaldi (Sipchem), KSA 6. Smt. Vartika Shukla (EIL), India (Invited) 7. Jatin Shah (BakerRisk), US </td> <td style="width: 50%; vertical-align: top;"> <ol style="list-style-type: none"> 8. Vaijanath Kulkarni, Galaxy Surfactants (Invited) 9. Stephen Klejst, CSB, USA 10. Pratap Nair, Ingenero 11. Prabhanjan Dixit, Nayara Energy, India 12. Saumya Chakrabarti, Finolex Industries, India 13. Shell Global Solutions, (Invited) 14. Mukul Agrawal, Deepak Fertilizers, India 15. Prof. Sandip Roy IIT-Bombay </td> </tr> </table>	<ol style="list-style-type: none"> 1. Yatendra Lodha (RIL), India 2. Arun Mittal (OISD), India 3. David Moore (AcuTech), USA 4. Ramabhadran Srinivasan (DSS), Singapore 5. Ahmed Shaheen Al-Khaldi (Sipchem), KSA 6. Smt. Vartika Shukla (EIL), India (Invited) 7. Jatin Shah (BakerRisk), US 	<ol style="list-style-type: none"> 8. Vaijanath Kulkarni, Galaxy Surfactants (Invited) 9. Stephen Klejst, CSB, USA 10. Pratap Nair, Ingenero 11. Prabhanjan Dixit, Nayara Energy, India 12. Saumya Chakrabarti, Finolex Industries, India 13. Shell Global Solutions, (Invited) 14. Mukul Agrawal, Deepak Fertilizers, India 15. Prof. Sandip Roy IIT-Bombay
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Parallel Technical Sessions Day 1:

(20 minutes presentation by each speaker followed by 5 minutes of Q&A session for each presentation)

1.45-3.20	<p>Session 1 – Barrier Health Monitoring/Dynamic Risk</p> <p>Session Chair: Palaniappan Chidambaram, dss+ Session Co-Chair: Dipal Phukan, Nayara Energy</p>	<p>Session 2 – Emerging Technologies and Future of Process Safety</p> <p>Session Chair: Balajee Raman, Ecolab Session Co-Chair: Reliance Industries Ltd</p>	<p>Session 3 – Essential Practices for Managing Chemical Reactivity hazards</p> <p>Session Chair: Pratik Sharma, Aarti Chemicals Session Co-Chair: Robert Weber, PSRG</p>
1.45-2.10	<p>Enhancing Process Safety through Scenario Management: Susan Losavio, ExxonMobil, Malaysia</p>	<p>Current developments in AI, ML, AR, VR & Industry 4.0</p> <p>IIT-Madras, Prof. Rajagopalan</p>	<p>Explosion Prevention and Protection Document (EPPD)</p> <p>Satyam Somani & Dhaval Kapadia, Bayer India Vapi Pvt. Ltd.</p>
2.10-2.35	<p>Leveraging a Sense of Vulnerability Using Barrier Health Management for Enhanced Risk Reduction: Ajit Kumar Jena, TCI Sanmar Chemicals SAE</p>	<p>AR/ VR Technologies in Safety Applications, Abhishek Gupta, Reliance Jio</p>	<p>Learnings from a Reactor Explosion: Catalyst Reactivity Learnings for Energy Transition Processes:</p> <p>Rajiv Srinivasan, Shell India Markets Private Limited</p>
2.35-3.00	<p>Don't Forget Me - I Am a SIF, Your Saviour in the Plant! Shivendra Kapoor, SIL Consulting Services</p>	<p>Enhancing Process Safety and Sustainability in Manufacturing through Generative AI: Mayuresh Mokal, Ingenero Inc</p>	<p>Understanding "Time to Maximum Rate (TMR)" in Chemical Reactions – Application, Use and Misuse: Rahul Raman, Kaypear</p>
3.00-3.25	<p>Real Time Visualization of Risk Movement through Barrier Health Monitoring, Ms. Alisha Kumari, Tata Steel Limited</p>	<p>Improvement of Process Cycle Efficiency Whilst Upholding Compliance for Process Safety through Deployment of Digital Pre-Activity Safety Review (PASR): Muhammad Amir Hakim Abd Wahab, PETRONAS Gas Berhad</p>	<p>Applying Layer of Protection Analysis (LOPA) for Business Continuity Scenarios – Learnings from Large Capital Expense Project: Mahesh Murthy, Clough</p>
3.25-3.45	<p>Tea, Coffee & Networking Break / Poster Session</p>		

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Parallel Technical Sessions (continues): Day 1 (20 minutes presentation by each speaker followed by 10 minutes of Q&A session for each presentation)			
3.45-6.05	Session 4 – Human Factors with Focus on ‘Best Practices and Lessons Learned Session Chair: Alok Khandelwal, Shell Session Co-Chair: AcuTech Consulting	Session 5 – Intentional Competency Development in Process Safety Session Chair: Surya Bhusan Kumar Sinha, Tata Steel Ltd Session Co-Chair: Balajee Raman, Ecolab	Session 6 – Managing Asset Integrity Session Chair: Sivaneswaran Kamala Kannan, ADNOC Session Co-Chair: Kaushik Jayaraman, ExxonMobil
3.45-4.10	Safety Culture: Filip Coumans, Krauss Bell Group	Ecolab Process Safety Foundations Hypercare: Nathan Thompson, Mojgan Vafaei Ecolab	Analysis of Major Process Safety Incidents, Dave Fargie from BP UK, IOGP
4.10-4.35	Quantified Human Factors Risk Assessment: Ian Travers, British Safety Council	Enhancing Process Safety in Indian industry, Dr. Pranav Tripathi, Indian Council Chemical	An overview of “100 Largest Losses globally, recent trends and learnings” Marsh - Arun Negi & Nick Hollan
4.35-5.00	Understanding Human Reliability Analysis (HRA): Concepts, Applications, and Case Study in High-Risk Industries: Ashley Craig, PSRG Inc, USA	How to Leverage CFD to Improve Hazard Assessment and Enhance Safety? Sharad Gupta, IRESC	Roles of SCE and Ops Performance Standards in preventing MAH: Girada, Raminaidu & Gottimukkala, Chaitanya, Shell India
5.00-5.15	15-minute Break		
5.15-5.40	Proactive Management of Human Factors in Accident Prevention: Case Study and an Innovative Approach at HMEL: Anshulkumar Tiwari, HPCL-Mittal Energy Ltd	Competency Development in Process Safety: Sudhir Narkhede LyondellBasell (LYB)	Managing Asset Integrity with Effective Management of Change (MoC) Program: Ashit Dalal, eDelta Consulting, Inc
5.40-6.05	Understanding Human Factors - Key to Effective Safety Barrier Management in Chemical Industries: Rekha Sharma, GRIP Global Pte. Ltd.	Building Competence for Effective Process Safety Management: Strategies and Approaches: Kevin Chothani, Sekura India Management Limited (Edelweiss)	How Many Detectors Are Optimal for a Hazardous Facility? Akshat Khirwal, IRESC
End of Day 1			

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Day 2- 27 November (Wed) [Venue: Jasmine 2]	
8.30-8.40	Recap of Day-1 by Co-Chairs of Technical Committee of 8th GSPS <ul style="list-style-type: none"> - Dr. Anil Gokhale, Chief Operating Officer (COO), Center for Chemical Process Safety (CCPS) - Prshanthi Bhupati- Reliance Industries Ltd.
8.40-9.00	Summary of Leadership Forum from Day-1 (Call for Action)
9.00-9.20	Keynote Address – Stephen Klejs, Executive Director, US Chemical Safety and Hazard Investigation Board
9.20-9.35	Keynote Address – RIL Leader
9.35-9.50	Keynote Address – Pawan Mundhra, Partner at McKinsey & Company, Global Energy & Metals
9.50-10.05	Keynote Address – Ashish Modi, Country Head, Honeywell
10.05-10.20	Keynote Address – Kartik Bharat Ram, President Indian Chemical Council (ICC), Joint Managing Director SRF Limited
10.45-11.15	Tea, Coffee & Networking Break / Poster Session
11.15 - 12.45	Technical Panel Discussion Topic: Reflection on repeat incidents and way forward Moderator: Mr. Jatin Shah- Senior Principal Consultant; Baker Risk, USA Invited Panel Members: <ul style="list-style-type: none"> • Arun Mittal, Executive Director, OISD (Oil Industry Safety Directorate), Technical Directorate under the Ministry of Petroleum and Natural Gas, India. • Arun Negi, Marsh India Insurance Brokers Pvt. Ltd. • Filip Coumans, Managing Director, EMEA, Krause Bell Group • Mukesh Mohan, Executive Director (H,S&E), Indian Oil Corporation Limited (Invited) • Cluster Head, Reliance Industries Limited • Shariq Abbasi, Manager Learning Safety, Shell India Markets Pvt. Ltd (Invited)
12.45 - 1.45	Lunch



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Parallel Technical Sessions: Day 2

(20 minutes presentation by each speaker followed by 5 minutes of Q&A session for each presentation)

1.45-3.20	<p>Session 7 – Operational Excellence through Leadership, Culture and Innovations</p> <p>Session Chair: Robert Weber, PSRG Session Co-Chair: Malcolm Pu, Wanhua Chemical</p>	<p>Session 8 – Process Safety and Alternate Energy Sources</p> <p>Session Chair: Reliance Industries Ltd Session Co-Chair: Finolex Industries Ltd</p>	<p>Session 9 – Hydrogen Safety</p> <p>Session Chair: Nick Barilo, Executive Director, Center for Hydrogen Safety Session Co-Chair: David Moore, AcuTech Consulting Group</p>
1.45-2.10	<p>Determining and Managing Safe Operating Limits to Critical Operating Parameters at Major Hazard Installations: Karthikganes Senthilvelan, Asahi Kasei Synthetic Rubber Singapore Pte. Ltd.</p>	<p>Process safety in Solar, Battery and Hydrogen manufacturing, Peter Fath, RCT Solutions GmbH</p>	<p>CHS Overview, Nick Barilo, Executive Director, Center for Hydrogen Safety</p>
2.10-2.35	<p>Catastrophic Warning Signs and Symptoms in Engineering Projects – Be Aware & Beware!': Palaniappan Chidambaram, dss+, Singapore</p>	<p>Inherently Safer Designs in New Energy Technologies: Mithu Saha, Worley</p>	<p>Process safety for H2 industry: David Moore, AcuTech Consulting Group</p>
2.35-2.55	<p>A Model for Winning Hearts and Minds to Enhance Process Safety: David Moore, AcuTech Consulting Group</p>	<p>Safety in Solar energy factories & installation: Dr. Milind Kulkarni, Renaissance Solar and Electronic Materials (RSOLEC)</p>	<p>H2 safety in Filling applications, Omprakash Mall, Reliance Industries Limited</p>
2.55-3.20	<p>Novel Automated Visual Management Board to Monitor Clusters Performance in Process Safety Fundamentals: Sakeena AL Lawati, Petroleum Development Oman LLC</p>	<p>Incorporating Process Safety into Energy Transition, Lessons Learned from US' Journey: Jatin Shah, Baker Risk</p>	<p>Risk Assessment of Hydrogen for Use in Hazardous Process: Abhineet Raj, Tata Steel Limited</p>
3.20-3.45	Tea, Coffee & Networking Break / Poster Session		



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Parallel Technical Sessions (Continues): Day 2 (20 minutes presentation by each speaker followed by 10 minutes of Q&A session for each presentation)			
3.45-5.25	<p>Session 10 – Process Safety Incidents Case Studies-1 (Emphasis on Recent Incidents/High potential Near Misses)</p> <p>Session Chair: Reliance Industries Ltd Session Co-Chair: Dr. Mahesh Murthy, Clough</p>	<p>Session 11 – Process Safety Incidents Case Studies-2 (Emphasis on Recent Incidents/High Potential Near Misses)</p> <p>Session Chair: Dhaval Kapadia, Bayer India Session Co-Chair: Finolex</p>	<p>Session 12 – Refining, Chemicals and More</p> <p>Session Chair: Abdulaziz Al Hamdi, OQ Session Co-Chair: Reliance Industries Ltd</p>
3.45-4.10	<p>Process Safety Lesson- Case Studies from the Oil Industry- Ram Goyal, Bapco energies</p>	<p>Process Safety Incident Happened in Petroleum Refinery: Sanjay Raj Kishor Singh, Oil Industry Safety Directorate</p>	<p><i>Marine Terminal Risk Assessment in Japanese Refineries Based on International Maritime Safety Guidelines:</i> Kiyoshi Ujimine, ENEOS Corporation</p>
4.10-4.35	<p>Fatal Risks of Stored Energy in Catalyst Unloading: Safety Management Strategies: Devendra Mahajan, Indian Oil Corporation Ltd</p>	<p>Process Safety Incident - Case Study of Shifting of Flare Header during the Ammonia Plant Tripping: Avdhesh Pandey IFFCO (to be confirmed)</p>	<p>Highly skilled, competent and versatile workforce for Disciplined Safety Culture. Avinash Shinde, Galaxy Surfactants</p>
4.35-5.00	<p>Walk the Line - An Effective Program to Avoid LOPC Due to Line-up Errors: Mohit Gharat, Lubrizol, Head PSM.</p>	<p>What Went Right in Preventing Solvent Storage Tank Over-Pressurization and Explosion during External Fire Incident: Smit Parekh & Smit Desai; Aether Industries Limited</p>	<p>Marketing of HSE Management System: Baldeo Pandey, Reliance Industries Ltd.</p>
5.00-5.25	<p>Reaction Hazard in Batch Reactors: A Case Study: Prof Diwakar Shende, VNIT, Nagpur (to be confirmed)</p>	<p>Safety Incident of Thermal Decomposition of Phosphorus Acid in Plant and Its Mitigation to Control the Decomposition: Tejashwini Powar, Godrej ASTEC</p>	<p>You Have “Safeguard” in Place, Sounds Promising; Have You Tested It? Act before It Is Too Late!! Hari Gopal Attal</p>
5.25-5.30	<p>Closing comments [CCPS & RIL]</p>		

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