

8th GSPS Conference Program

Updated as on 22 November 2024

8th CCPS GLOBAL SUMMIT ON PROCESS SAFETY

November 26-27, 2024 | Jio World Centre | Mumbai, India

PROGRAM BOOK



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About the summit

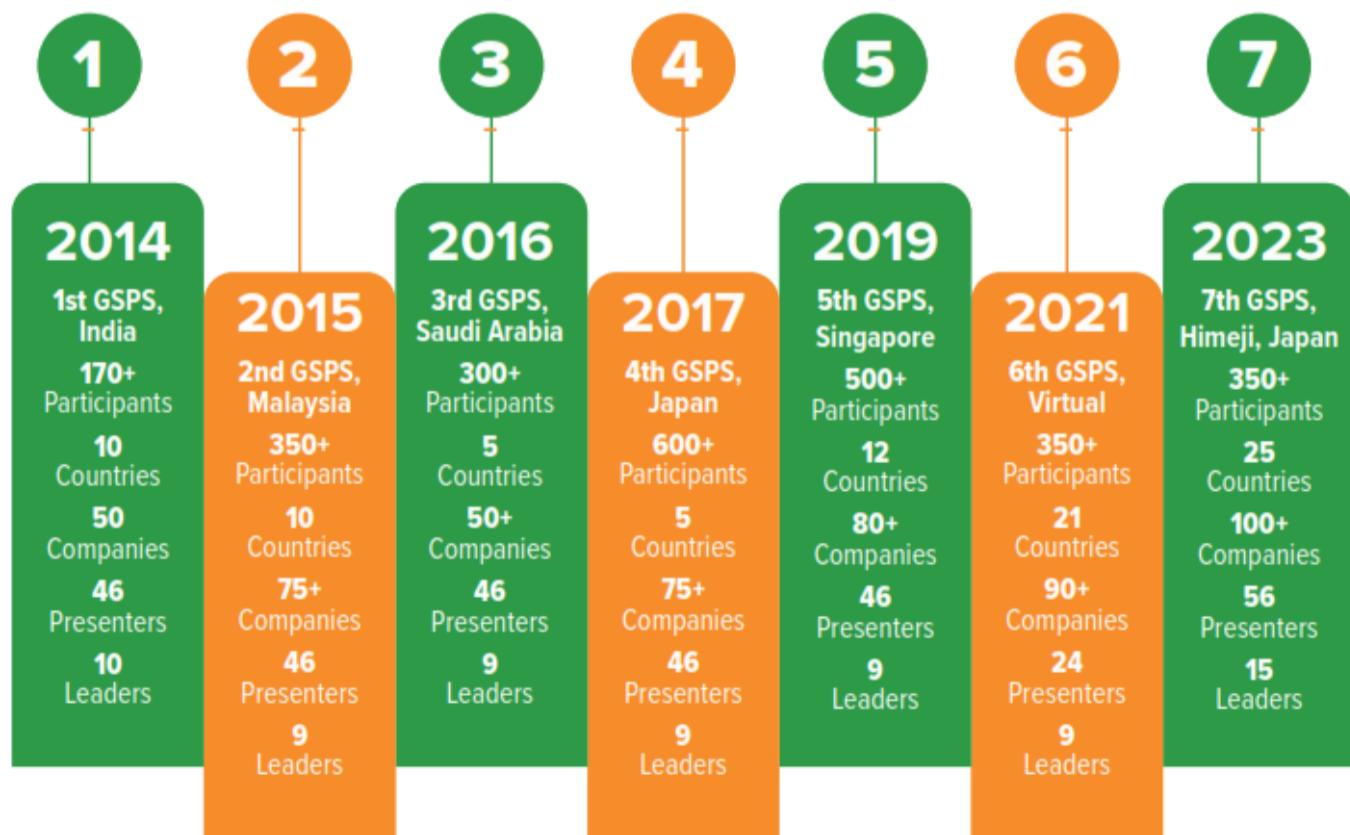
The 8th GSPS is a premier global event organized by American Institute of Chemical Engineers' (AIChE's), Center for Chemical Process Safety (CCPS) that brings together industry leaders, regulators, process safety practitioners, and academia from around the world to address critical advancements and challenges 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, 50 plus innovative technical presentations spread across 15 sessions along with poster sessions.

Program Highlight



Brief History of the summit



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Monday November 25: Pre-conference workshop for Small and Medium Scale Industries: [Venue JWC Meeting Room-206, Level 2]

Day 1- 26 November (Tue)

Registration from 7.00 to 8.30 am 【Venue: Jasmine 2】

8.30-8.35	Welcome & Introduction to Dignitaries on Dias																		
8.35-8.50	Conference Inaugural- Lamp Lighting Ceremony																		
8.50-9.05	<p>Opening Remarks</p> <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 - D. Sothi Selvam- Director General, Indian Chemical Council 																		
9.05-9.25	Welcome Address - Shakeel Kadri, Executive Director & CEO- Center for Chemical Process Safety (CCPS), USA																		
9.25-9.45	Address by Chief Guest - Mukesh Kumar Surana, Ex. Chairman & MD of Hindustan Petroleum Corporation Limited																		
9.45-10.05	Keynote Address – Sanjiv Singh, Head-Group Manufacturing Services, Reliance Industries Limited																		
10.05-10.25	Keynote Address – Dr. Fawaz K. Bitar, Senior Vice President of Health, Safety, Environment & Carbon at BP “ <i>Too Safe to Fail?</i> ”																		
10.25-10.45	Keynote Address – Stephen Klejs, Executive Director, US Chemical Safety and Hazard Investigation Board “ <i>Improving Process Safety Through Lessons Learned</i> ”																		
10.45 - 11.15	Poster Session, Coffee & Networking- at Exhibition Space Jasmine 2																		
11.15 - 12.45	<p>Leadership Panel Discussion</p> <p>Topic: The role of leadership to address challenges in creating effective Process Safety</p> <p>Moderator: Mr. Yatendra Lodha, Group Head- Safety & Operational Risk, Reliance Industries Limited</p> <p>Panel Members:</p> <ul style="list-style-type: none"> • Dr Fawaz K Bitar, Senior Vice President-Health, Safety, Environment & Carbon, BP • Stephen Klejs, Executive Director, US Chemical Safety and Hazard Investigation Board • Mukesh Kumar Surana, Ex. Chairman & MD of Hindustan Petroleum Corporation Limited • Sachin Punekar; Head Site Operations - JMD Cluster, Reliance Industries Limited • Shakeel Kadri, Executive Director & CEO, CCPS • Ramabhadran Srinivasan Managing Director-Asia Pacific, dss+ 																		
12.45 - 1.45	Lunch break / Poster Session- at Exhibition Space Jasmine 2																		
1.45 – 4.45	<p>Leaders' Forum on Process Safety- Theme: Process Safety at Senior Leadership Level – “How I drive Process Safety in my organization” [Venue: Meeting Room No. 203, Level 2]</p> <p>Moderator: Shakeel Kadri – Executive Director & CEO, CCPS;</p> <p>Participating Leaders:</p> <table border="0"> <tbody> <tr> <td>1. Yatendra Lodha RIL, India</td> <td>10. Sanjiv Raina (BPCL)</td> </tr> <tr> <td>2. Stephen Klejst, CSB, USA</td> <td>11. S. N. Soman, (HPCL)</td> </tr> <tr> <td>3. Vivek Bichave, (RIL), India</td> <td>12. Ahmed Shaheen Al-Khaldi (Sipchem), KSA</td> </tr> <tr> <td>4. Ashish Bhusan (OISD), India</td> <td>13. Prabhanjan Dixit (Nayara Energy) India</td> </tr> <tr> <td>5. Kartik Bharat Ram (ICC & SRF), India</td> <td>14. Saumya Chakrabarti (Finolex), India</td> </tr> <tr> <td>6. David Moore, (AcuTech) USA</td> <td>15. Mukul Agrawal, (Deepak Fertilizers) India</td> </tr> <tr> <td>7. Ramabhadran Srinivasan (dss+), Singapore</td> <td>16. Prof. Sandip Roy (IIT-Bombay)</td> </tr> <tr> <td>8. Jatin Shah (Baker Risk), USA</td> <td>17. Nilay Vyas, UPL, India</td> </tr> <tr> <td>9. Pratap Nair (Ingenero), India</td> <td>18. Vaijanath Kulkarni, Galaxy</td> </tr> </tbody> </table>	1. Yatendra Lodha RIL, India	10. Sanjiv Raina (BPCL)	2. Stephen Klejst, CSB, USA	11. S. N. Soman, (HPCL)	3. Vivek Bichave, (RIL), India	12. Ahmed Shaheen Al-Khaldi (Sipchem), KSA	4. Ashish Bhusan (OISD), India	13. Prabhanjan Dixit (Nayara Energy) India	5. Kartik Bharat Ram (ICC & SRF), India	14. Saumya Chakrabarti (Finolex), India	6. David Moore, (AcuTech) USA	15. Mukul Agrawal, (Deepak Fertilizers) India	7. Ramabhadran Srinivasan (dss+), Singapore	16. Prof. Sandip Roy (IIT-Bombay)	8. Jatin Shah (Baker Risk), USA	17. Nilay Vyas, UPL, India	9. Pratap Nair (Ingenero), India	18. Vaijanath Kulkarni, Galaxy
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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)

1.45-3.25	<p>Session 1 – Barrier Health Monitoring/Dynamic Risk Session Chair: Palaniappan Chidambaram, dss+ Session Co-Chair: Dipal Phukan, Nayara Energy</p>	<p>Session 2 – Emerging Technologies and Future of Process Safety Session Chair: Balajee Raman, Ecolab Session Co-Chair: Shashank Singh Reliance Industries Ltd</p>	<p>Session 3 – Essential Practices for Managing Chemical Reactivity hazards Session Chair: Pratik Sharma, Aarti Chemicals Session Co-Chair: Prashanthi Bhupathi, Reliance Industries Limited</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, Prof. Rajagopalan, IIT-Madras</p>	<p>Explosion Prevention and Protection Document (EPPD), Satyam Soman & 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: Vadivel Subramaniam, President and COO, 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, 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>JioHumsafar: Revolutionizing Road Safety in India: Anish Jose, Jio Smart Fleet</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- at Exhibition Space Jasmine 2</p>		

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Parallel Technical Sessions (continues): Day 1

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

3.45-6.05	<p>Session 4 – Human Factors with Focus on Best Practices and Lessons Learned Session Chair: David Moore; AcuTech Consulting Session Co-Chair: Dr. Anil Gokhale</p>	<p>Session 5 – Intentional Competency Development in Process Safety Session Chair: Ajaykumar Kakkanattu, PSRG Session Co-Chair: Dr. Mahesh Murthy</p>	<p>Session 6 – Managing Asset Integrity Session Chair: Kaushik Jayaraman, ExxonMobil Session Co-Chair: Khalid Al Beshr, ADNOC</p>
3.45-4.10	<p>The impact of decision-making on the occurrence of process safety incidents: Filip Coumans, Krauss Bell Group</p>	<p>Ecolab Process Safety Foundations Hypercare: Nathan Thompson, Balajee Raman, Ecolab</p>	<p>Learning from IOGP Global Upstream Process Safety Event Data, Dave Fargie from BP UK, IOGP</p>
4.10-4.35	<p>Quantified Human Factors Risk Assessment: Ian Travers, British Safety Council</p>	<p>Responsible Care in India: Enhancing Process Safety in the Chemical Industry: Dr. Pranav Tripathi, Head – Responsible Care & Sustainability Issues, Indian Chemical Council</p>	<p>An overview of “100 Largest Losses globally, recent trends and learnings” Marsh - Arun Negi & Nick Holland</p>
4.35-5.00	<p>Understanding Human Reliability Analysis (HRA): Concepts, Applications, and Case Study in High-Risk Industries: Ashley Craig, PSRG Inc, USA</p>	<p>How to Leverage CFD to Improve Hazard Assessment and Enhance Safety? Sharad Gupta, IRESC</p>	<p>Roles of SCE and Ops Performance Standards in preventing MAH: Girada, Raminaidu & Chaitanya Gottimukkala, Shell India</p>
5.00-5.15	<p>15-minute Break</p>		
5.15-5.40	<p>Proactive Management of Human Factors in Accident Prevention: Case Study and an Innovative Approach at HMEL: Anshulkumar Tiwari, HPCL-Mittal Energy Ltd</p>	<p>Competency Development in Process Safety: Sudhir Narkhede LyondellBasell (LYB)</p>	<p>Managing Asset Integrity with Effective Management of Change (MoC) Program: Ashit Dalal, eDelta Consulting, Inc</p>
5.40-6.05	<p>Understanding Human Factors - Key to Effective Safety Barrier Management in Chemical Industries: Rekha Sharma, GRIP Global Pte. Ltd.</p>	<p>Building Competence for Effective Process Safety Management: Strategies and Approaches: Kevin Chothani, Sekura India Management Limited (Edelweiss)</p>	<p>How Many Detectors Are Optimal for a Hazardous Facility? Akshat Khirwal, IRESC</p>
<p>End of Day 1</p>			

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Day 2- 27 November (Wed) [Venue: Jasmine 2]

8.30-8.40	<p>Recap of Day-1 by Co-Chairs of Technical Committee of 8th GSPS</p> <ul style="list-style-type: none"> - Dr. Anil Gokhale, Chief Operating Officer (COO), Center for Chemical Process Safety (CCPS) - Prashanthi Bhupathi, Head-Process Safety, Reliance Industries Ltd.
8.40-9.00	Summary of Leadership Forum from Day-1 (Call for Action)
9.00-9.20	Keynote Address – Sanjay Roy, President- Petroleum E&P, Reliance Industries Limited
9.20-9.35	Keynote Address – Sanjay Khanna, Director (Refineries), BPCL (Invited)
9.35-9.50	Keynote Address – Pawan Mundhra, Partner at McKinsey & Company, Global Energy & Metals <i>“Digital & Analytics led Improvement for Process Safety”</i>
9.50-10.05	Keynote Address – Arun Mittal, Executive Director, OISD <i>Key Challenges in Driving Process Safety to Zero PSIs’</i>
10.05-10.20	Keynote Address – Amar Kumar, Head of Refinery, Nayara Energy <i>“Process Safety Culture- A Crucial Pillar for an Effective PSM”</i>
10.20-10.35	Keynote Address – Ranjit Kulkarni, Vice President & General Manager; <i>“Honeywell Energy and Sustainability Solutions”</i>
10.35-10.45	Preparation time
10.45-11.15	Tea, Coffee & Networking Break / Poster Session - at Exhibition Space Jasmine 2
11.15 - 12.45	<p>Technical Panel Discussion</p> <p>Topic: Reflection on Repeat Incidents and Way Forward</p> <p>Moderator: Mr. Jatin Shah- Senior Principal Consultant; Baker Risk, USA</p> <p>Invited Panel Members:</p> <p>Arun Mittal, Executive Director, OISD (Oil Industry Safety Directorate) Filip Coumans, Managing Director, EMEA, Krause Bell Group PS Murthy, Executive Director – HSE Corporate, Hindustan Petroleum Corporation Limited Arun Negi, Chemical, Risk Engineering & North Energy Leader, Marsh India Shariq Abbasi, Manager Learning Safety, Shell India Markets Pvt. Ltd</p>
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)

1.45-3.25	<p>Session 7 – Operational Excellence through Leadership, Culture and Innovations Session Chair: Vivek Bichave, RIL Session Co-Chair: S. N. Soman, HPCL</p>	<p>Session 8 – Process Safety and Alternate Energy Sources Session Chair: Pavan K Jain, RIL Session Co-Chair: B N Jadhav; Finolex Industries Ltd</p>	<p>Session 9 – Hydrogen Safety 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: Karthikganesh Senthivelan, Asahi Kasei Synthetic Rubber Singapore Pte. Ltd.</p>	<p>Process safety in Solar, Battery and Hydrogen manufacturing, Dr. 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+</p>	<p>Inherently Safer Designs in New Energy Technologies: Adish Joshi, Worley</p>	<p>Process safety for H2 industry: David Moore, AcuTech Consulting Group</p>
2.35-3.00	<p>A Model for Winning Hearts and Minds to Enhance Process Safety: Keng Yong Chan, AcuTech Consulting Group</p>	<p>Essential Elements of Process Safety in Solar Manufacturing Value Chain: Dr. Milind Kulkarni, Renaissance Solar and Electronic Materials (RSOLEC)</p>	<p>H2 safety in Filling applications, Omprakash Mall, Reliance Industries Limited</p>
3.00-3.25	<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>
3.25-3.45	<p>Tea, Coffee & Networking Break / Poster Session - at Exhibition Space Jasmine 2</p>		

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Parallel Technical Sessions (Continues): Day 2

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3.45-5.00	<p>Session 10 – Process Safety Incidents Case Studies (Emphasis on Recent Incidents/High potential Near Misses) Session Chair: Shailesh Nigam, RIL Session Co-Chair: Dr. Mahesh Murthy</p>	<p>Session 11 – Refining, Chemicals and More (1) Session Chair: Dhaval Kapadia, Bayer India Session Co-Chair: Shreedatta Albur, Finolex</p>	<p>Session 12 – Refining, Chemicals and More (2) Session Chair: Sayantan Bhowmik, RIL Session Co-Chair: Abdulaziz Al Hamdi, OQ</p>
3.45-4.10	<p>Process Safety Lesson- Case Studies from the Oil Industry- Ram Goyal, IoMosaic Corporation</p>	<p>Walk the Line - An Effective Program to Avoid LOPC Due to Line-up Errors: Mohit Gharat, Lubrizol, Head PSM.</p>	<p>Marine Terminal Risk Assessment in Japanese Refineries Based on International Maritime Safety Guidelines: Kiyoshi Ujimine, ENEOS Corporation</p>
4.10-4.35	<p>Process Safety Incident Happened in Petroleum Refinery: Sanjay Raj Kishor Singh, Oil Industry Safety Directorate</p>	<p>Aveva UOC- Achieve Safe and Optimized Operations with Integrated Operations Center: Mr Rajesh Grandhe, Aveva</p>	<p>Highly skilled, competent and versatile workforce for Disciplined Safety Culture. Avinash Shinde, Galaxy Surfactants</p>
4.35-5.00	<p>CSB Case Studies: Learning from Process Safety Investigations: Stephen Klejs, Executive Director, US Chemical Safety and Hazard Investigation Board (CSB)</p>	<p>Vulnerability Index (VI) – A New Innovative Tool for Job Risk Management: Shri Manoj Singh - Chief Manager - Safety (Operations and Process), HPCL-MR</p>	<p>You Have “Safeguard” in Place, Sounds Promising; Have You Tested It? Act before It Is Too Late!! Hari Gopal Attal</p>
5.00-5.15	<p>Award Ceremony</p> <p>Best Presentation Award Ceremony</p> <p>Category-1: Best Technical Presentation [Three prizes] Category-2: Young Professional best technical Presentation [One prize] Category-3: Best Poster Presentations [One Prize]</p>		
5.15-5.30	<p>Closing comments [CCPS & RIL]</p>		

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Poster Presentations

Poster Author	Affiliation	Poster Topic
Joy Shah	Innov8 ProTech Solutions	Developing Process Safety Competency Management System in High Hazards Industries
Sumesh Nair	Xantray Consulting	Enhancing Cognitive Aspects of Risk Management Leading to Safer Hot Work Management
Wafa Al Shizawi	Petroleum Development Oman	Enhancing Petroleum Process Safety through Organizational Restructuring and Continuous Improvement
Srikanth Sindhanur	Hetero Labs Limited	Cultural Transformation Journey – an Integrated Process Safety Approach
Arpan Panchal	Kaypear Engineering LLP	Paper: Guidelines for Storage and Handling of Reactive Chemicals
Rahul Mishra	Acutech Consulting Group Inc	Ensuring Process Safety through Intentional Competency Development
Devang Asher	HuberGroup India Pvt Ltd	Human Factors in Process Safety: Best Practices and Lessons Learned
Ajay Kakkanattu	PSRG Inc	Achieving Excellence in Process Safety: A Guide to Successful PSM Implementation for Global Companies
Debabrata Panda	IRESC	Design Challenges in Meeting SIF Barrier Reliability Target in Complex Hazardous Scenarios

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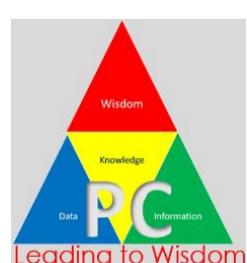
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