

2nd CCPS Canada Regional Meeting Calgary, Alberta, 26 September 2017





26 September 2017 AGENDA

Time	Subject	Leader/Speaker
8:30 AM	Arrival – Breakfast	
9:00 AM	Safety Briefing	David Guss, Sr. Manager PSM, Nexen
9:05 AM	Roll Call (Self-Introduction)	All
9:15 AM	Welcome Note	Shakeel Kadri, Executive Director, CCPS
9:30 AM	CCPS Review 2017	Shakeel Kadri, Executive Director, CCPS
10:00 AM	CCPS Projects UpdateOpportunities of Participation	Anil Gokhale, Director, CCPS Projects
10:30 AM	Coffee/Tea Break	
10:45 AM	Regional CCPS Projects – Engagement & Needs	David Guss/Fred Henslewood
11:15 AM	CCPS Membership Overview	Michele Horwitz, CCPS Membership Manager
11:30 AM	Credentialing	Shakeel Kadri/Anil Gokhale
11:45 AM	Undergraduate Process Safety Education	Shakeel Kadri/Anil Gokhale
12:00 PM	Lunch	
1:00 PM	Canadian PSM Standard CSA Z767	Guy Brouillard, GCM Consultants



26 September 2017 AGENDA

Time	Subject	Leader/Speaker
1:30 PM	PSM Metrics Workshop	David Guss, Nexen
	Presentations Max 20 Minutes Each	
	1. Nova PSM Metrics	1. Fred Henslewood, Nova
	2. Nexen PSM KPI's	2. Tom Guest, Nexen
	3. CCPS / API PSM Metrics	3. Shakeel Kadri, CCPS
2:30 PM	Break	
2:45 PM	PSM Metrics Workshop – Group Discussion	David Guss/Fred Henslewood/Shakeel
	and Sharing	Kadri
3:45 PM	Roundtable Discussion	Shakeel Kadri, Executive Director CCPS
4:15 PM	Incident Sharing & Lessons Learned	All
4:50 PM	Closing Comments	Shakeel Kadri, Executive Director, CCPS
	 Date & Location of Next Meeting 	
5:00 PM	Meeting Adjourned	



Presentation outline...

- Process Safety & Chemical Engineering
- The Harm We Bring to Many...
- About CCPS
- Our Global Effort
- CCPS Certification
- Undergraduate Process Safety Education
- Global Responsible Collaboration
- Process Safety Journey to Excellence
- Q&As



Chemical Engineering & Process Safety

- What good we bring to the many?
- What harm we bring to some?
- The harm all remember.....



Flixborough, UK, 1974



"The Global Community Committed to Process Safety"



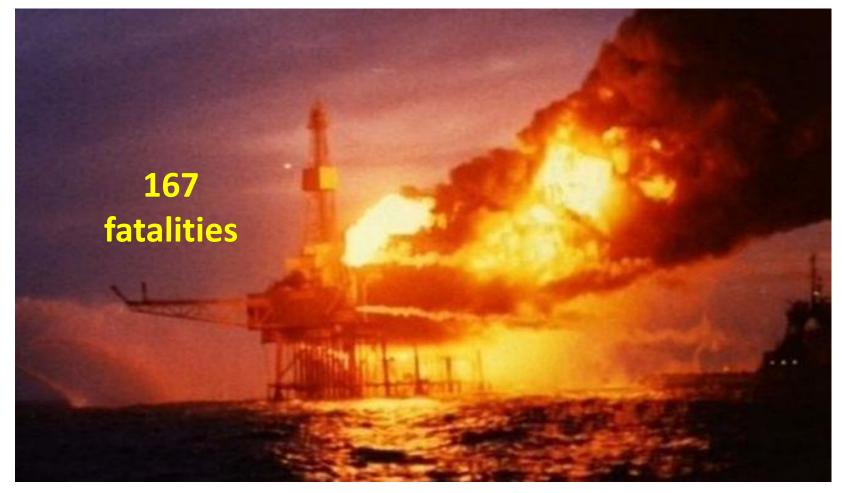
Seveso, Italy, 1976



"The Global Community Committed to Process Safety"



Piper Alpha, UK 1988



"The Global Community Committed to Process Safety"



Pasadena, TX, 1989



"The Global Community Committed to Process Safety"



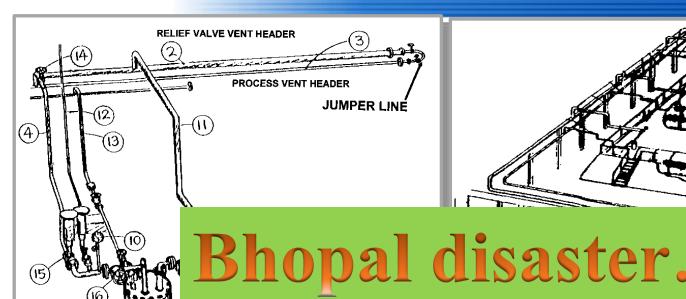
Mexico City, 1984



"The Global Community Committed to Process Safety"



The harm we all remember...



Bhopal disaster...







MIC TANKS

PROCESS VENT HEADER



Bhopal -- Lessons Learned

- Bhopal is the worst process safety incident that's ever occurred in the chemical industry
- It heightened focus on worst case events and how they are managed
- It became a catalyst for a safety reform
- It has lead to improved process safety practices worldwide
- Global process safety improvement initiated
- AIChE was asked to create a Safety Center --- Center of Chemical Process Safety [CCPS] – to lead a collaborative effort to eliminate catastrophic process incidents



About CCPS



- Formed on 23 March 1985
- Not for profit organization; part of AICHE
- Corporate supported nearly 200 members
- Global scope and mission; 40% of members outside of USA
- Focus: preventing process incidents: fires, explosions, and toxic releases
- Petroleum production, refining, chemicals, pharma, chemical users
- Headquarter s in New York City, with offices in Frankfurt,
 Mumbai, Singapore, Ningbo [China] and Houston.



CCPS Vision



"To protect people, property and the environment by bringing the best process safety knowledge and practices to industry, academia, the governments and the public around the world through collective wisdom, tools, training and expertise."



CCPS Mission

Eliminate catastrophic process incidents globally by:

- Advancing global PS technologies, culture, and management practices
- Establishing Process Safety as foundation for responsible operation
- Serving as premier worldwide resource of Process Safety
- Fostering knowledge and understanding of Process Safety
- Promoting Process Safety as key societal value and expectation



Leading Process Safety since 1985

CCPS Certified CCPSC

Creating Books and Publications

Sharing Best Practices









Conducting Global Conferences and Training

Creating Industry-wide Tools, Programs and Guidelines



Educating Educators



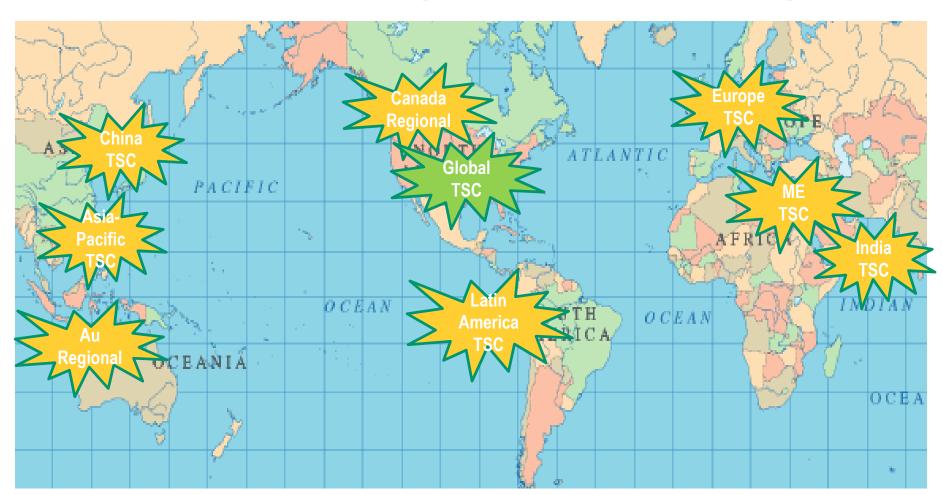
"The Global Community Committed to Process Safety"



More Regional

Engagement...

Technical Steering Committee Meetings





2017 Progress / Plan



2017 CCPS Progress / Plan [1]

- Added 19 new members during the Jan-Sept 2017 period
- Undergraduate Process Safety Education Program progressing well:
 - 10 New SACHE modules will be done
 - 5 + translations are in progress
 - 5 Faculty Workshop completed; including 1 is in India
 - 119 faculty members participated at these workshops
 - 2 Students Boot Camps completed
- Grow CCPSC globally
 - 2 exams completed in May & Aug 2017; 46 took CCPSC exam
- Expand Vision 20/20 RBPS Web Tool, Risk Not Chance videos
 - 3 videos are in progress



2017 CCPS Progress / Plan [3]

- Executing key conferences / workshops around the world
 - 13th Global Congress in Process Safety held in San Antonio, TX
 - CCPS PSM Congress with EUROCORR held in Prague, Czech Republic
 - 4th CCPS Global Summit held in Okayama, Japan
 - 5th China Conference, Nanjing, China
 - PS Workshop in Seoul, S. Korea [Louisa Nara and Umesh Dhake]
 - PS Workshops held in Latin America [Louisa and Orlando]
- Planned key conferences / workshops around the world
 - 2017 CCPS Middle East Process Safety Conference, 9-11 October 2017, Bahrain
 - Joint [CCPS, IChemE, EPSC, MKO, and WPLP] PSM Symposium at 10th World Congress of Chemical Engineering, Barcelona, Spain, 2-3 Oct 2017
 - 2nd CCPS Conference in Europe on PS + Big Data, 14-15 Nov 2017, Frankfurt,
 Germany
 - 1st API-754 Process safety Metrics workshop by Kelly Keim and Shakeel Kadri, 27
 November 2017 in Kuwait



2017 CCPS Plan [2]

CCPS Membership:

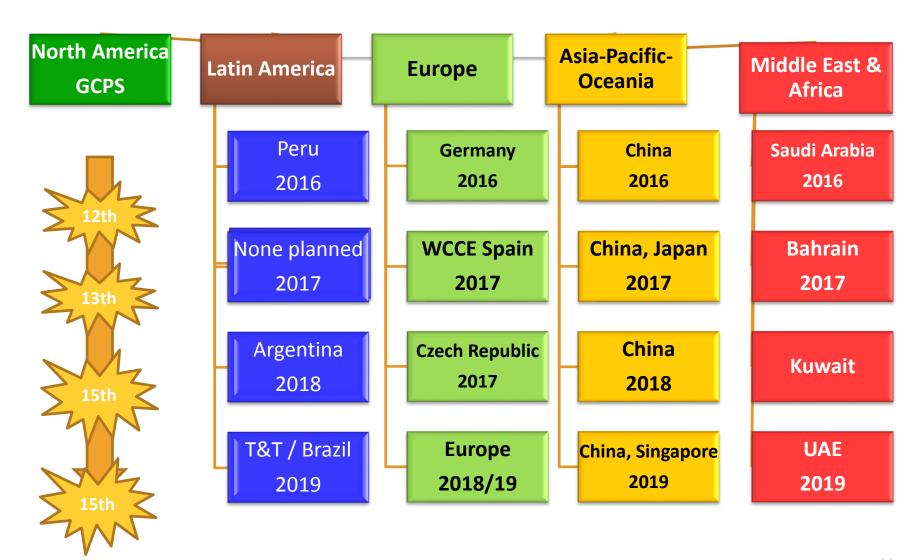
- As of June 2017, we added 19 new members
- 52% North America [NA]
- 48% outside NA

Face to face Regional TSC meetings in all regions

- Europe [March 2017] Done
- Asia Pacific [May 2017] Done
- Australia [May 2017] Done
- Latin America [March-May 2017] Done
- China [22 September 2017] Done
- Calgary, Canada [26 September 2017] Done
- India [20 Dec 2017] Planned



Global / Regional Engagement...





ce Gallery 🔻



13th Global Congress on Process Safety

♥ Henry B. Gonzalez Convention Center, San Antonio, TX

Each year the Center for Chemical Process Safety (CCPS) and the AIChE Safety & Health Division present the Global Congress on Process Safety (GCPS). From its initial meeting in 2005, GCPS has grown into the world's largest gathering practitioners from industry, regulatory

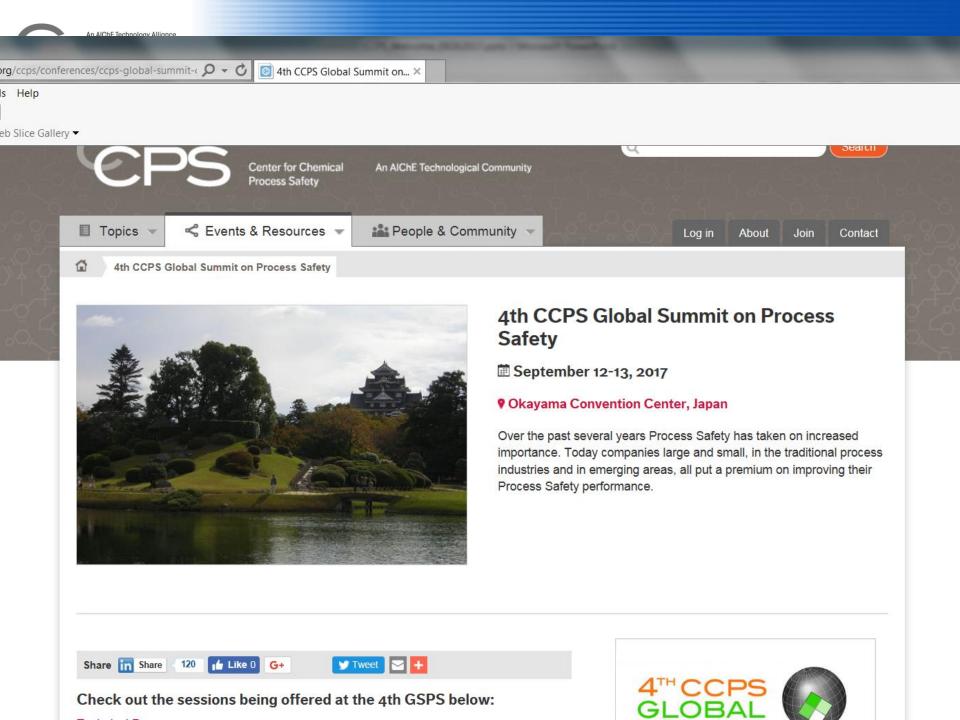
13th GCPS Grid

The 13th GCPS Pre-Conference Proceedings Have Been Posted. Click here to view →

To obtain a copy of CEU/PDH certificate for the conference please email certificates@aiche.org.

Search

Contact

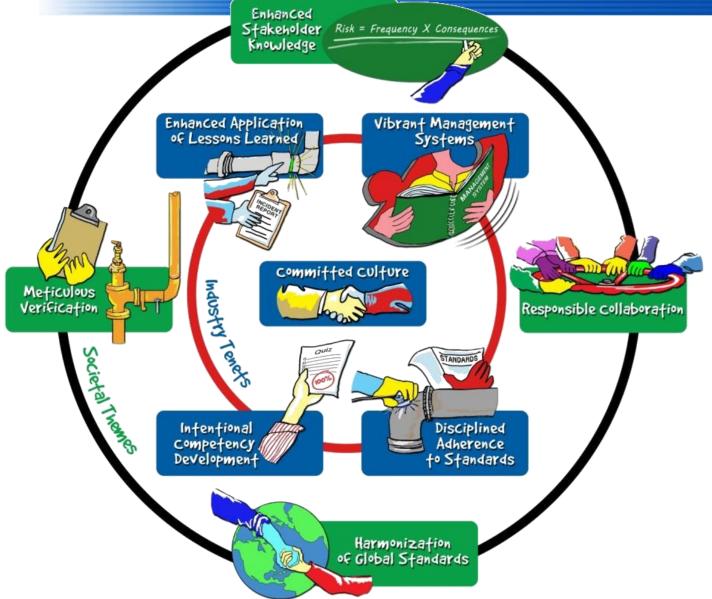








Vision 20/20





Responsible

Collaboration

Energy Institute [EI]	Bow Tie Guideline Book	
Society of Petroleum Engineers [SPE]	Process Safety for Upstream Guideline Book	
American Chemical Council [ACC]	Enhancing Process Safety effort	
Japan Society for Safety Engineering [JSSE]	4 th Global Summit, Okayama, Japan	
European Process Safety Center [EPSC]	Europe PS + Big Data Conference, Frankfurt	
EPSC + Dow Chemicals	RAST [Risk Analysis Screening Tool]	
IChemE, MKO, EPSC and WPLP	2017 WCCE-10 Barcelona PSM Track	

MOU signed

2nd Global Summit

Collaborating activity

MOU signed; 6th Global Summit [2019]

CCPS Risk Based Process Safety elements as best

Potential CCPS-CSB collaboration on developing

practices reference on the OSHA Web Tool

video modules using CCPS content

Singapore Chemical Industry Council

PERTAMINA University [Indonesia]

Universiti Teknologi Petronas [UTP]

Chemical Safety Board [CSB]

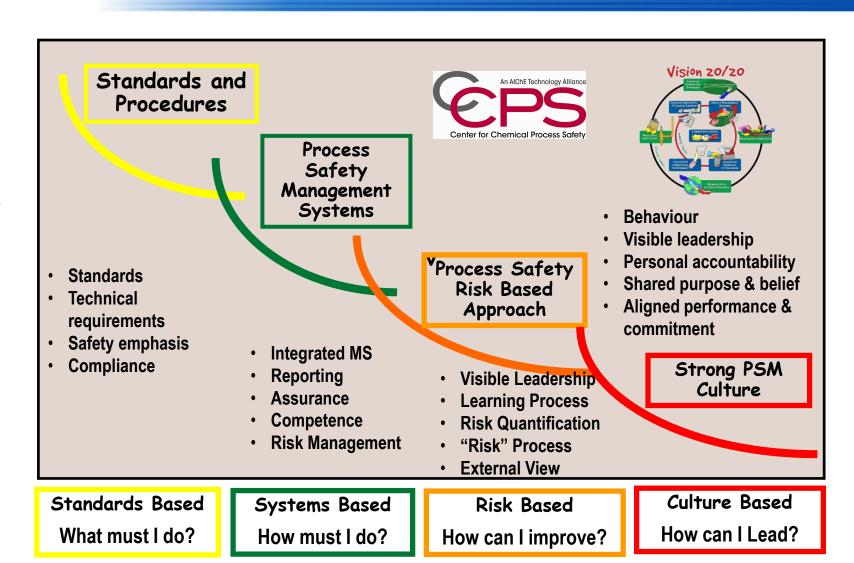
University [Malaysia]

OSHA

Organization



Process Safety Journey to Excellence





Questions?