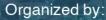




# CONFERENCE PROGRAM









# CCPS MEPSC 2022 CONFERENCE AT GLANCE

# MONDAY | September 26

08:30 - 15:30

Process Safety Incident Investigation Workshop

Empowering Frontline Staff for Sustainable Process Safety Culture Workshop

TUESDAY   September 27			
08:30 - 08:40	Welcome Address		
08:40 - 09:25		Keynote	
09:25 - 10:25		Leadership Panel	
10:25 - 10:50	Poster Session		
10:50 - 12:00	<b>Parallel Technical Sessions:</b> Process Safety Management Framework And Safety Case (I)	Parallel Technical Sessions: Business Leadership And Ownership In Forming And Sustaining Process Safety Culture (I)	Parallel Technical Sessions: Asset Integrity And Process Safety Management
12:00 - 12:45	Prayer and Lunch Break		
12:45 - 13:10	Keynote		
13:10 - 14:20	Parallel Technical Sessions: Managing Cyber Safety	Parallel Technical Sessions: ESG Performance And Process Safety	Parallel Technical Sessions: Incident Investigation
14:20 - 14:30	Break		
14:30 - 15:40	Parallel Technical Sessions: Process Safety For Exploration & Production And Non-traditional Process Industry Operations	Parallel Technical Sessions: Process Safety Digitalization and Analytics	<b>Parallel Technical Sessions:</b> Process Safety Transformation; From Today's Challenges Into Future Excellence
19:00 - 20:00	Gala Dinner		

WEDNESDAY   September 28			
08:30 - 08:40	Welcome Address		
08:40 - 09:25		Keynote	
09:00 - 10:20		Technical Panel	
10:25 - 10:50	Poster Session		
10:50 - 12:00	Parallel Technical Sessions: Process Safety Barriers Management Considering Emerging Safety And Security Threats	<b>Parallel Technical Sessions:</b> Chemical Release and Reaction Hazard Management	Parallel Technical Sessions: Business Leadership And Ownership In Forming And Sustaining Process Safety Culture (II)
12:00 - 12:45	Prayer and Lunch Break		
12:45 - 13:55	<b>Parallel Technical Sessions:</b> Process Safety Management Framework (II)	Parallel Technical Sessions: Managing Process Safety Institutional Knowledge And Competency Development	<b>Parallel Technical Sessions:</b> Human Factors With A Focus On Best Practices And Lessons Learned
13:55 - 14:05	Break		
14:05 - 15:25	Industry Process Safety Incidents Case Studies (Emphasis On Recent Incidents And Data)		
15:25 - 15:40	Closing Ceremony Remarks		



Organized by:

aramco 🚵

# Day 1 - Monday, 26 Sep 2022 Sheraton Dammam, Saudi Arabia

#### 08:30 - 10:30 Session 1

Process Safety Incident Investigation Workshop	Empowering Frontline Staff for Sustainable Process Safety Culture Workshop
The workshop objective is to show technical personnel how to perform an objective investigation to determine what happened in an incident and why. The course is oriented to incidents in chemical processing facilities and refineries. The prime objective is to teach the thought processes and methodologies of experienced investigators in determining immediate causes, underlying causes and root causes of incidents. The course will emphasize the key role the investigator plays for complete, accurate and detailed investigations, identifying, communicating and embedding lessons learned. Speaker Roger Stokes Principal Engineer, Baker Risk	Frontline staff, such as plant operators, operations specialist, and maintenance craft-persons, should and can take the lead on implementing and improving process safety. For this to happen, site Leadership must see the value in this approach and must support this delegation of responsibility and authority over the long term. Speakers David Moore President & CEO, AcuTech Group William Bridges President, Process Improvement Institute (PII)

#### 10:30 - 11:00 Break

#### 11:00 - 12:30 Session 2

Process Safety Incident Investigation Workshop	Empowering Frontline Staff for Sustainable Process Safety Culture Workshop
Workshop continues	Workshop continues
Speaker Roger Stokes Principal Engineer, Baker Risk	Speakers David Moore President & CEO, AcuTech Group William Bridges President, Process Improvement Institute (PII)

#### 12:30 - 13:30 Prayer and Lunch Break

#### 13:30 - 15:30 Session 3

Process Safety Incident Investigation Workshop	Empowering Frontline Staff for Sustainable Process Safety Culture Workshop
Workshop continues	Workshop continues
Speaker Roger Stokes Principal Engineer, Baker Risk	Speakers David Moore President & CEO, AcuTech Group William Bridges President, Process Improvement Institute (PII)



Organized by:

AIChE

**EPS** 

aramco 📉

Prime Sponsor:

# Day 2 - Tuesday, 27 Sep 2022 Sheraton Dammam, Saudi Arabia

07:30 - Registration



#### 08:00 - 08:30 VIP Reception

08:30 - 08:40 Welcome Address

Speaker

Shakeel Kadri Executive Director & CEO, CCPS

08:40 - 09:25 Keynote

Speakers

Ibrahim Khawaji Manager, Loss Prevention, Technical Services Department, Aramco Ibrahim AI-Rushoud President - Affiliates, Sipchem

#### 09:25 - 10:25 Leadership Panel

The role of leadership to address challenges in creating effective PSM

Moderator Shakeel Kadri Executive Director & CEO, CCPS

#### Panelists

Ibrahim Khawaji Manager, Loss Prevention, Technical Services Department, Aramco Ms. Anne O' Neal Fellow, AIChE and Manager, Process Safety Culture and Competency, Chevron Khaled Al Alyani Global EHSS Vice President, SABIC Ahmed Al-Khaldi General Manager, Industrial Security & Responsible Care, Sipchem Derek Miller Global Process Safety Director, Air Products

#### 10:25 - 10:50 Poster Sessions

Session Chair

Jamal Al-Ghamdi Corporate Process Safety Director, Sadara Chemical Company

#### Session Co-chair

Vishal Chavan Project Manager- Asia Pacific & Middle East, CCPS Middle East Process Safety Conference

An Argument for Process Safety - Can the Widespread Adoption of a Safety Case Framework and Regime Improve Risk Management in the Middle East Region?

Speaker

Abdurrahman Souka Principal (Technical Safety) Consultant & Team Leader, Risktec Solutions (TÜV Rheinland Group)

Towards Effective Emergency Response (EROAT)

Speaker



Prime Sponsor:

aramco 🌇

#### Bassel Alderhalli Engineer IV, Aramco

Physical Effects Modelling: Risk and Impact in an Offshore Facility – Case Study

Speakers

**Bresly Danthy** Safety & Loss Prevention Engineer, Technip Energies **Basil Fysal** HSE Design Engineer, Technip Energies

The Future of Nuclear Power Plant Safety: What Is after Zaporizhzhia Accident?

Speaker

**Feras Ahmed** Chemical Engineering Student, King Fahd University of Petroleum & Minerals (KFUPM)

HFE- Valve Critically Analysis

Speakers Ibrahim M. Balharith Loss Prevention Engineer , Aramco Tirthankar Basu Loss Prevention Engineer, Aramco

Developing and Implementing Barrier Management Process for Safety Critical Equipment

Speaker Isiaka Niyi Yusuf Loss Prevention Engineer, Aramco

Evaluation of the Maturity Level of the Process Safety Culture for Oil and Gas Industry Workers in a Region of the Middle East (Saudi Arabia)

Speaker

Leonardo Cotrufo Lead Engineer, Aramco

Siting of Temporary Buildings during One Unit Shutdown in Petrochemical Complex

Speaker

Muhammad Hammad Bashir Process Safety Engineer, Sipchem

EHS Critical Bypass Control- Reduced Duration and Improved PS Barrier Performance

Speakers

Nouman Khaleeq Butt Lead Engineer, Process Safety, Arabian Petrochemical Company-Petrokemya

Yasser A. Al Shaikh Sr. Manager of Reliability, Maintenance and Inspection Departments, Arabian Petrochemical Company-Petrokemya

Enhancing Integrity Management of Aging Assets Using Risk-Based Methodologies

Speaker Dr. Payam Jamshidi Global Mechanical Integrity Lead, Siemens Energy





Prime Sponsor:

The Safety Challenges of the Various Stages of Intermodal Transportation

Speaker

Roger Stokes Principal Engineer, Baker Risk

A Committed & Resilient Culture Is a Recipe for Success Every Time

#### Speaker

Usman Ali Mughal Lead - Senior Process Safety Engineer, Fatima Fertilizer Company Limited

Analysis of Safety and Security in Industry4.0-Enabled Remote Offshore Green Hydrogen Production

Speaker

Ahmed El-Kady Research Assistant, TEES Mary Kay O'Connor Process Safety Center in Texas A&M University

Identification and Assessment of Risks in Offshore Wind-Integrated Hydrogen Production System

Speaker

Ahmed El-Kady Research Assistant, TEES Mary Kay O'Connor Process Safety Center in Texas A&M University

#### 10:50 - 12:00 Parallel Technical Sessions





# Middle East Process Safety Conference

27-28 September 2022 | Sheraton Dammam, Saudi Arabia

Organized by:



aramco 📉

Prime Sponsor:

Speaker Ms. Azza Al-Subhi Process Safety Engineer, OQ	Amir Zaheer Base Business Leader, Saudi Arabian Chevron	Process Hazard Analysis and Mechanical Integrity Initiatives Combined
Co-Presenter <b>Ms. Maryam Zahran Al Buraidi</b> Process Safety Engineer, OQ	Co-Author <b>Ms. Anne O' Neal</b> Fellow, AIChE and Manager, Process Safety Culture and Competency, Chevron	Speaker <b>German Luna-Mejias</b> CEO & Director, Lupatech Canada

12:00 - 12:45 Prayer and Lunch Break



Sponsored by

#### 12:45 - 13:10 Keynote

Safety in Digitalized Processing Systems

Speaker

Dr. Faisal Khan Director, Mary Kay O'Connor Process Safety Center

#### 13:10 - 14:20 Parallel Technical Sessions

Sponsored by



Session 4: Managing Cyber Safety	Session 5: ESG Performance And Process Safety	Session 6: Incident Investigation	
Session Chair Jaikishin Lilani Head of Process Safety, Ingenero Inc	Session Chair Essam S. Al-Otaibi Safety Superintendent, SATORP	I-Otaibi Safety Mohammad Nashwan Process	
A Cyber Resilience Risk Assessment Framework Proposal Based on Bow-Tie Analysis of Industrial Control System Speaker Laxminarayan Nayak Regional Risk Engineer, Middle East, Royal & Sun Alliance Insurance (Middle East) B.S.C.	The impact a Process Safety incident has on a company's Environmental, Social and Governance (ESG) performance Speaker Andrew P. Bartlett Solutions Consultant Global Solution Engineering , Sphera	Department, Aramco Common Mistakes When Conducting Incident Investigations in Process Safety. Experiences from the Oil and Gas Industry in the Last Decade Speaker Oscar Barajas Pinzon Loss Prevention Engineer, Aramco	
Integrating Cyber Security in Hazard and Risk Analyses Speaker Ajay Shivaji Patil Solution Consultant, Siemens Energy	Effective Emergency Response Plan Is Success of Process Safety Speaker Ghulam Abbas Process Safety Engineer, Fatima Fertilizer Company Limited	Gains from Getting Near Misses Reported Speaker William Bridges President, Process Improvement Institute (PII)	
Conducting Hybrid Security Risk Assessments to Address Physical Cybersecurity Exposures	Co-Presenter <b>Sabeeh Ahmed</b> Production Engineer, Fatima Fertilizer Company Limited	A Leadership's Guide to Incident (Accident) Investigations Speaker	
Speaker Elias Quinn, AcuTech Group	ESG Performance and Process Safety	Roger Stokes Principal Engineer, Baker Risk	



14:20 - 14:30

## Middle East Process Safety Conference

27-28 September 2022 | Sheraton Dammam, Saudi Arabia

AIChE



Prime Sponsor:

Speaker Mohammed Ali Al-Zahrani Sustainability Manager, Sipchem Break 14:30 - 15:40 Parallel Technical Sessions Session 7: Process Safety for Session 8: Process Safety Session 9: Process Safety Exploration & Production and Non-**Digitalization and Analytics** Transformation; From Today's traditional Process Industry Challenges Into Future Excellence Operations Session Chair Session Chair Session Chair David Moore President & CEO, Muhammad Mushahid R. Qureshi Andrew P. Bartlett Solutions **Consultant Global Solution** AcuTech Group Loss Prevention Engineer, Aramco Engineering, Sphera Process Safety Challenges in the Closed-Loop Model to Optimize Management of Change System and Mining & Metal Industry How Do We Prevent Losing Sight in Best practices to Manage the MOC Risk Assessments Digital Transition Speaker Hocine Ait Mohamed Senior Speakers Nawayd Shaikh Process Safety Consultant, Paragon Risk Speaker Hussain Alabduljabbar Safety Engineering Consultant, AcuTech Group David Moore President & CEO, Engineering Group Leader, Loss Prevention, Saudi Aramco AcuTech Group The Impact of Using Risk Matrices on Reducing Accidents, the Case of the Oil and Gas Industry in Alberta Realizing Digitalization in Safety ADNOC PSM Transformation (Canada) Journey Speaker Abdulrahman Alamer Safety Speaker Speaker Aissam Bouadjel Loss Prevention Professional, Aramco Zubair J. Awan Manager HSE; Engineer, Aramco Derivatives Park Management, ADNOC - Abu Dhabi National Oil Co-Presenter Wassam Alqahtani Safety Company Process Safety Management in Professional, Aramco Engineering Projects for Proactive Mitigation of Process Safety Risks Best Practices for Writing Operating Managing Process Safety Procedures and Trouble-Shooting Institutional Knowledge through Guides Speaker Ms. Kumari Shalini Manager. Digitalization Process Safety, Tata Steel Speaker Muhammad Haider Senior Process Speaker Shardul Shindadkar Asst Mgr -Safety Engineer, Sipchem Sales and Marketing, Ingenero Inc 18:00 - 20:00 Gala Dinner



Sponsored by

oromco

Sponsored by





Organized by:

aramco 🚵

Prime Sponsor:

# Day 3 - Wednesday, 28 Sep 2022

Sheraton Dammam, Saudi Arabia

07:30 - Registration



#### 08:30 - 08:40 Welcome Address

Speaker

Fahad Thani Al-Shammari Sr. Manager, Process Safety CoE, SABIC

#### 08:40 - 09:25 Keynote

Ask Better Questions – A Practical Approach to Improving Process Safety Culture

#### Speaker

Ms. Anne O' Neal Fellow, AIChE and Manager, Process Safety Culture and Competency, Chevron

What will process safety look like in 2032?

Speaker Mahmood A Rahim General Manager – Refining, BAPCO

#### 09:25 - 10:25 Technical Panel

Digitalization and Data Analytics Applications for Process Safety Advancement

#### Moderator

Dr. Abdulrehman Aldeeb Head of Process Safety Technology and Consulting, Siemens Energy, Inc

#### Panelists

Awad Shehri, Aramco Abdulaziz AlMahmeed Lead Instrument Engineer, GPIC (Gulf Petrochemical Industries Company) Dr. Faisal Khan Director, Mary Kay O'Connor Process Safety Center Majed Al Shangiti Chief Information Officer, SATORP Ali S. Al-Wadie Manager, Process Engineering & Control System, Sipchem

#### 10:25 - 10:50 Poster Sessions

#### Session Chair

Jamal Al-Ghamdi Corporate Process Safety Director, Sadara Chemical Company

#### Session Co-chair

Vishal Chavan Project Manager- Asia Pacific & Middle East, CCPS Middle East Process Safety Conference

An Argument for Process Safety - Can the Widespread Adoption of a Safety Case Framework and Regime Improve Risk Management in the Middle East Region?



rganized by:

EPS AICHE



aramco 🚵

Abdurrahman Souka Principal (Technical Safety) Consultant & Team Leader, Risktec Solutions (TÜV Rheinland Group)

Towards Effective Emergency Response (EROAT)

Speaker Bassel Alderhalli Engineer IV, Aramco

Physical Effects Modelling: Risk and Impact in an Offshore Facility - Case Study

Speakers Bresly Danthy Safety & Loss Prevention Engineer, Technip Energies Basil Fysal HSE Design Engineer, Technip Energies

The Future of Nuclear Power Plant Safety: What Is after Zaporizhzhia Accident?

Speaker

**Feras Ahmed** Chemical Engineering Student, King Fahd University of Petroleum & Minerals (KFUPM)

HFE- Valve Critically Analysis

Speakers Ibrahim M. Balharith Loss Prevention Engineer , Aramco Tirthankar Basu Loss Prevention Engineer, Aramco

Developing and Implementing Barrier Management Process for Safety Critical Equipment

Speaker

Isiaka Niyi Yusuf Loss Prevention Engineer, Aramco

Evaluation of the Maturity Level of the Process Safety Culture for Oil and Gas Industry Workers in a Region of the Middle East (Saudi Arabia)

Speaker Leonardo Cotrufo Lead Engineer, Aramco

Siting of Temporary Buildings during One Unit Shutdown in Petrochemical Complex

Speaker

Muhammad Hammad Bashir Process Safety Engineer, Sipchem

EHS Critical Bypass Control- Reduced Duration and Improved PS Barrier Performance

Speakers

**Nouman Khaleeq Butt** Lead Engineer, Process Safety, Arabian Petrochemical Company-Petrokemya

Yasser A. Al Shaikh Sr. Manager of Reliability, Maintenance and Inspection Departments, Arabian Petrochemical Company-Petrokemya



aramco 🚵

#### Enhancing Integrity Management of Aging Assets Using Risk-Based Methodologies

Speaker

Dr. Payam Jamshidi Global Mechanical Integrity Lead, Siemens Energy

The Safety Challenges of the Various Stages of Intermodal Transportation

Speaker

Roger Stokes Principal Engineer, Baker Risk

A Committed & Resilient Culture Is a Recipe for Success Every Time

Speaker

Usman Ali Mughal Lead - Senior Process Safety Engineer, Fatima Fertilizer Company Limited

Analysis of Safety and Security in Industry4.0-Enabled Remote Offshore Green Hydrogen Production

#### Speaker

Ahmed El-Kady Research Assistant, TEES Mary Kay O'Connor Process Safety Center in Texas A&M University

Identification and Assessment of Risks in Offshore Wind-Integrated Hydrogen Production System

Speaker

Ahmed El-Kady Research Assistant, TEES Mary Kay O'Connor Process Safety Center in Texas A&M University

#### 10:50 - 12:00 Parallel Technical Sessions

Sponsored by

aramco 🆄

Session 10: Process Safety Barriers Management	Session 11: Chemical Release and Reaction Hazard Management	Session 12: Business Leadership And Ownership In Forming And Sustaining Process Safety Culture (II)
Session Chair Abdulwahab Abdullah Al-Shahrani Manager, Process Safety, Sipchem	Session Chair Jamal Al-Ghamdi Corporate Process Safety Director, Sadara Chemical Company	Session Chair Ather Zia Loss Prevention Engineer , Aramco
Vulnerability Model and Overpressure Exceedance Curve Approach for Risk Based Method in Building Risk Assessment Using Integral Model Speaker	Reactive Chemical Program at Sadara Chemicals Speaker Jonathan Molefi Reactive Chemical SME, Sadara Chemical Company	I Am Accountable for Process Safety Speaker Venkatesan Panneer Selvam Lead Process Safety Engineer, SABIC - GAS
Leonardo Cotrufo Lead Engineer, Aramco	Runaway Reaction Prevention & Risk	The Magic Bullet for Safety Citizenship: The Combined Impact of
Effectively Manage Process Safety System Impairment System to	Control Speaker	Leadership and Safety Culture



# Middle East Process Safety Conference

27-28 September 2022 | Sheraton Dammam, Saudi Arabia

Organized by:



aramco 🚵

	Prevent Catastrophic Incidents Speaker Nileshkumar Patel Process Safety Technology Leader, Sadara Chemical Company	Omar Marghalani Lead Process Safety Engineer, SABIC	Dr. Shama Egbe HSE Coordinator, Aramco PSM Integration and Unification Post Merger Transaction
	Business Case for PHA of Procedures (to Find the Accident Scenarios that are Otherwise Missed)		Speaker Ahmed Al-Khaldi General Manager, Industrial Security & Responsible Care, Sipchem
	Speaker <b>Muhammad Hammad Bashir</b> Process Safety Engineer, Sipchem		
12:00 - 12:45	Prayer and Lunch Break		Sponsored by

12:45 - 13:55 Parallel Technical Sessions

Sponsored by



Session 13: Process Safety Management Framework (II)	Session 14: Managing Process Safety Institutional Knowledge And Competency Development	Session 15: Human Factors with Focus on Best Practices and Lessons Learned
Session Chair Mahmood A Rahim General Manager – Refining, BAPCO	Session Chair Aqeel Riaz General Manager – HSE&T, Engro Polymer & Chemicals LTD	Session Chair William Bridges President, Process Improvement Institute (PII)
Stimulation of Risk Awareness through Risk Containment Program Speaker Abdulwahab Alshahrani Process Safety Manager, Sipchem	HSE Capacity Building Program As an Example for Improving the PS Knowledge and Competency inside the Egyptian Oil and Gas Sector Speaker Ali Ahmed Elkhallal Process Safety	Human Factors and Their Implication in Basic Process Control Systems (BPCS) and Emergency Shutdown Systems (ESDs) Speaker Oscar Barajas Pinzon Loss Prevention Engineer, Aramco
Effective Integration of OSH & PSM for Enhanced HSE Performance & Culture Speaker Bala Siva Srikanth Adivi TPL Specialist I (HSE), Kuwait Oil Company - KOC Co-Presenter	Professional, ANRPC Accelerate Process Safety Competent Workforce Speaker Sultan Al-Harthi Loss Prevention Engineer, Aramco	Human Factors in Process Safety Speaker <b>Roger McDaniel</b> , Aramco
Majed Al-Mutairi Team Leader HSE(NK), Kuwait Oil Company - KOC The Power of Safety Assessment	Safety Barrier Management Using Integrated Techniques	



Organized by:

aramco

Prime Sponsor:

Speaker

Mohammed Al-Samin LP Supervisor, Aramco

#### 13:55 - 14:05 Break

#### 14:05 - 15:25 Session 16: Industry Process Safety Incidents Case Studies

#### Session Chair

Abdullah Hassan Al-Qahtani Chief Engineer, Process Risk Management, SABIC

Incident Root Cause Analysis & Lessons Learned from an Explosion at an Oil Refinery during Start up

Speaker

Akthar Quddus Managing Director, MaxTrain International

Learning lessons from incidents and near misses and managing repeatable data

#### Speaker

Andrew P. Bartlett Solutions Consultant Global Solution Engineering, Sphera

Improve Process Safety performance by learning from history and current trends

### Speaker

Derek Miller Global Process Safety Director, Air Products

#### 15:25 - 15:40 Closing Remarks & Award Ceremony

Master of Ceremony

Lujain Alkharashi Loss Prevention Engineer, Aramco

Speakers

Shakeel Kadri Executive Director & CEO, CCPS Rami I Nazer Technical Support Unit Supervisor, Loss Prevention, Aramco Abdullah Hassan Al-Qahtani Chief Engineer, Process Risk Management, SABIC Dr. Abdulrehman Aldeeb Head of Process Safety Technology and Consulting, Siemens Energy, Inc Dr. Anil Gokhale Senior Director, CCPS Projects, CCPS

Dr. Anil Gokhale Senior Director, CCPS Projects, CCPS

Produced 08 September 2022

Organized by:

# PROGRAM

**Umesh Dhake** Associate Director, Asia, Oceania and & Africa Regions, CCPS Email: umesd@aiche.org

# REGISTRATION

**Vishal Chavan** Project Manager, Asia Pacific & Middle East, CCPS Email: vishc@aiche.org

# SPONSORSHIP

**Raunaq Jamal** Consultant, CCPS Email: raunj@aiche.org



AICHE



Prime Sponsor



Diamond Sponsor

ىيتاپك ەنداھە

Silver Sponsors

**Gold Sponsor** 



AcuTech







Smith & Burgess Process Safety Consulting SmithBurgess.com

**Bronze Sponsors** 





**Conference Partner** 









**Media Partners** 





