



ATM | **TEXAS A&M**
UNIVERSITY at QATAR

ConocoPhillips

QATAR PROCESS SAFETY SYMPOSIUM

PROCESS SAFETY IS NOT
ACHIEVED BY ACCIDENT

SUCCESSFULLY MANAGING CHANGES FOR A SAFER FUTURE

30 – 31 MARCH 2015 | 7.30 a.m. – 3.30 p.m.
QATAR NATIONAL CONVENTION CENTRE
qps.s.qatar.tamu.edu

All delegates must register in advance.

RSVP* to Amanda Field at safety_symposium@qatar.tamu.edu

**If you have any special needs, please make sure that you bring these to our attention in your RSVP.*



**MARY KAY O'CONNOR
PROCESS SAFETY CENTER**
TEXAS A&M ENGINEERING EXPERIMENT STATION

KEYNOTE SPEAKERS



Judith Hackitt CBE, Chair of the UK Health and Safety Executive (HSE)

Judith was appointed in 1 October 2007 for a term of 5 years and was reappointed as Chair of HSE for a further 3 years from October 2012. Judith previously served as a Commissioner between 2002 and 2005 and was awarded her CBE for services to health and safety in 2006. Judith is a chemical engineer and graduated from Imperial College in 1975. She worked in the chemicals manufacturing industry for 23 years before joining the Chemical Industries Association (CIA) in 1998. She became Director General of CIA (from 2002-2005) and then worked in Brussels for the European Chemical Industry Association (CEFIC).

Judith is a Fellow of the Institution of Chemical Engineers and a member of council. She was President of IChemE from May 2013 to May 2014. She was elected as a Fellow of the Royal Academy of Engineering in July 2010.

Judith is also a senior non-executive director and trustee of the Energy Saving Trust and a non-Exec director of the High Value Manufacturing Catapult.

Title: *The foundations for management of change in process safety - Leadership, learning and effective regulation*

Abstract: The UK is a world leader in the regulation of health and safety in the major hazard industries. The Chair of its Health and Safety Executive (HSE), Judith Hackitt CBE FrEng, gives her insight into management of change in the process safety industries. HSE has developed its major hazard regulatory regime over the last 40 years and has a mature system, but process safety management continues to offer challenges as industries, technologies and economies change. Judith, who has worked in the chemical industries for over 20 years, will speak about the challenges regulators and industry face, not only in the UK but around the world, as well as ways to tackle them. Find out why Leadership, learning and effective regulation are vital.



Richard D'Ardenne, PE, PMP, Technical Manager, ConocoPhillips Qatar Ltd.

A chemical engineer, D'Ardenne was appointed Technical Manager, ConocoPhillips Qatar on March 1, 2014. Previously, he served as Project Integration Manager for ConocoPhillips Caspian since 2010, where he was responsible for the assurance of the company's investments into the massive Kashagan Project after filling a seconded role inside the project.

D'Ardenne began his career with Phillips in 1980, working in a variety of engineering positions in Pasadena, TX, supporting the company's plastics business. In 1988, after working three years in plastics marketing in Columbus, OH, he returned to Pasadena, TX working as a production superintendent. D'Ardenne shifted to the company's corporate engineering group in 1990.

After transferring to Borger, TX in 1996, D'Ardenne worked as the manager of major capital projects for the Borger refinery, NGL and petrochemical complex. In 1999, D'Ardenne transferred to Irvine, CA, working on the Hamaca heavy-oil project as project manager, later transferring to Puerto La Cruz, Venezuela, seeing the project through to completion.

Moving to Perth, Western Australia in 2005, D'Ardenne was appointed Vice President Capital Projects and oversaw the completion and start-up of the Darwin LNG plant. In 2009, he became Deputy Project Manager over the Australia Pacific LNG project in Brisbane, Queensland, responsible for the EIA and subsequent successful application of the environmental permit for the coal seam gas to LNG project.

D'Ardenne represents ConocoPhillips on the board of directors of the Qatargas 3 joint venture. Previously, he served as member and President of the Board of Directors of Colegio Internacional Puerto La Cruz. He is a member of the Project Management Institute.

Born in the USA in 1958, D'Ardenne earned his bachelors of science in chemical engineering from Purdue University in 1980, is a certified project management professional and a registered engineer in the great State of Texas

Title: *Management of Change – what are we (still) missing?*

Abstract: The oil and gas industry constantly goes through cycles that require the need for rigorous Management of Change (MoC). But with all the work that has been done to develop means and ways to effect change resulting safe outcomes, why do we continue to see accidents and injuries in our industry that should otherwise have been preventable? What are we missing or, rather, what are we 'still' missing in this process?

This presentation will explore one aspect of the management of change process that can be difficult to encompass in the traditional risk analyses and MoC procedures associated with change and which oft times do not make the MoC checklist.



Trish Kerin, Director of IChemE safety center

After graduating from the Royal Melbourne Institute of Technology as an honours graduate in mechanical engineering, Kerin worked for Mobil Oil where she project managed aviation fuels, installation and design. This was followed by operational roles at the Mobile Altona Refinery, where she supervised shipping and offsite areas. She then moved on to PVC manufacturer Australian Vinyls as risk manager and just prior to joining IChemE, was the national health and safety manager for Wesfarmers Kleenheat Gas.

Kerin is also a graduate of the Australian Institute of Company Directors (AICD). She is also an Associate Member of IChemE and a Member of Engineers Australia, and holds a diploma in OHS.

During her career in industry, she held a number of representative roles to government committees focused on process safety and major hazards.

Kerin now leads the IChemE safety centre (ISC), an industry led consortium, whose objective is to improve process safety throughout industries.

Title: *What happens when you don't manage change well*

Abstract: This presentation focuses on the case study of the BP Grangemouth Refinery explosion in 2000. This case has been chosen because it highlights the ineffective management of changes throughout the life of a facility, not just at one point in time.

On 10 June 2000, there was a leak from the Fluidised Catalytic Cracker Unit (FCCU) at the BP Grangemouth Refinery during a plant start up. This hydrocarbon leak vaporised and spread. It was then ignited, resulting in a serious fire in and around the FCCU. There were no injuries as a result of the fire, but there was significant damage and the fire burnt for some 6 and a half hours. Investigations by the UK Health and Safety Executive determined the immediate cause as being the fracture of an unsupported 6x3" reducing tee due to a fatigue failure^[1]. This presentation will explore the various changes that lead up to the fracture of the reducing tee, and how the control and management of these was ineffective.

^[1] Health and Safety Executive, BP Grangemouth - Major Incident Investigation Report, HSE, London, 2003

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30 March 2015

07.30 – 08.30	Registration, refreshments	
08.30 – 8.40	Introduction	
08.40 – 08.50	<i>Welcome and opening of the symposium</i> Dr Mark Weichold, Dean & CEO, Texas A&M University at Qatar Gary R. Sykes, President of ConocoPhillips Qatar	
08.50 – 09.00	<i>Keynote Address</i>	
09.00 – 09.50	Plenary Keynote Speaker <i>The foundations for management of change in process safety - Leadership, learning and effective regulation</i> Judith Hackitt, Chair of the UK Health and Safety Executive	
09.50 – 10.30	<i>Management of Change – what are we (still) missing?</i> Richard D'Ardenne, Technical Manager ConocoPhillips Qatar	
10.35 – 10.45	Award Ceremony	
10.45 – 11.00	Coffee break / poster session	
	Track I: Safety Management	Track II: Hazardous phenomena
11.00 – 11.30	<i>Dust Explosions Hazard Awareness: polyethylene and sulfur dusts</i> Mohamed Kazmi, MKOPSC Qatar	<i>Study of corrosion resistance using electrochemical impedance spectroscopy</i> Safwan Ghannam, MKOPSC Qatar
11.30 – 12.00	<i>"Managing the Safety of your assets in a virtual 3D environment</i> Dr Pascal Legal, Gexcon	<i>Corrosion and hydrogen embrittlement in production systems – effect on process safety.</i> Dr Roy Johnsen, Norwegian University of Science and Technology (NTNU), Qatar Petroleum Research & Technology Development
12.00 – 12.30	<i>Organisational Capability & Culture: The 2 critical pillars of any successful PSM implementation</i> Dr Herve Vaudre, Chilworth – a DEKRA company	<i>Further analysis of an offshore fire investigation using SCAT</i> Dr Aubrey Thyer, DNV GL
12.30 – 13.30	Lunch and networking / poster session	
13.30 – 14.00	<i>Title: Preventing the Recurrence of Major Accidents</i> Noora Al-Ghanim, Qatar Shell	
14.00 – 14.30	<i>Management of Change through incident cases</i> Dr Jack Chosnek / Dr Sam Mannan	
14.30 – 15.00		
15.00	Wrap up – end of the first day	

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08.00 – 08.30	Registration, refreshments	
08.30 – 09.15	Plenary Keynote Speaker <i>What happens when you don't manage change well?</i> Trish Kerin, IChemE Safety Centre (ISC)	
09.15 – 10.30	Panel discussion	
10.30 – 11.00	Coffee break / poster session	
	Track III : Risk Assessments	Track IV: Gas Dispersion – Research and Technology
11.00 – 11.30	<i>Contribution of applied experimental research to the assessment of the risks associated to the loss of containment of LNG on land.</i> Asma Sadia, MKOPSC-Qatar	<i>Study the infiltration of toxic gases in non-process areas & building</i> Atif Ashraf, MKOPSC-Qatar
11.30 – 12.00	<i>The Mechanics of a Quantitative Risk Analysis: Better Understand your Risks</i> Neil Prophet, IoMosaic	<i>New Technology for Toxic & Flammable Gas Detection</i> Larry Hudson, Scenscient
12.00 – 12.30	<i>tbd</i>	<i>Quantifying Fugitive Emission Rates Using Optical Gas Imaging Techniques</i> Hazem Abdel Moati, ExxonMobil Research Qatar
12.30 -13.30	Lunch and networking / poster session	
13.00-13.30	<i>How can academia influence a safety culture?</i> Dr Luc N Véchet, MKOPSC Qatar	
13.30 – 14.00	<i>tbd</i>	
14.00 – 14.15	And the winner is ...	
14.15	End of the Symposium	