



**SAFETY IN AMMONIA PLANTS &
RELATED FACILITIES SYMPOSIUM**

64TH SAFETY IN AMMONIA PLANTS & RELATED FACILITIES SYMPOSIUM

September 8–12, 2019

Hyatt Regency San Francisco | San Francisco, CA

SUNDAY, SEPTEMBER 8

12:00 PM	5:00 PM	Registration Open	Market Street Foyer	
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TIME	TITLE	TITLE	AUTHOR(S)	COMPANY
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MONDAY, SEPTEMBER 9

8:00 AM		Welcome from Committee Chair	Michel Warzee	<i>Yara</i>
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8:10 AM	Keynote Address	Cultures and Process Safety	Manny Ehrlich	<i>CSB</i>
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9:00 AM	Paper 1A	Major Fire Due to Synthesis Compressor Oil Tank Rupture	Svein Hansen	<i>Yara Porsgrunn</i>
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9:30 AM	COFFEE BREAK			
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10:00 AM	Paper 1B	Advances in HTHA NDE, FFS in API 941, API 579, and Impact to Ammonia Producers	Michael Nugent	<i>The Equity Engineering Group, Inc.</i>
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10:30 AM	Paper 1C	Mechanical integrity of an ammonia plant: an assessment based on bow-ties	Peter Schmitz	<i>OCI Nitrogen</i>
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11:00 AM	Paper 1D	Uptime Improvement Journey Through Systematic Root Cause Analysis	Ashutosh Shukla, Marc Hermus, Venkat Pattabathula	<i>Dyno Nobel Inc</i>
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11:30 AM	LUNCH BREAK			
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1:30 PM	Paper 2A	Causes for Process Gas Cooler (PGC) Tubesheet Thermal Disintegration and Mitigating Actions	D. Sponseiler (Borealis), D. Sparr (Bertsch)	<i>Borealis Agrolinz Melamine GmbH</i>
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2:00 PM	Paper 2B	Successful Execution of a 2200 MTPD Ammonia Synloop in Freeport Texas	Ved Gupta, Robert Collins, Robert McAdams, Amy Hinkel	<i>YARA, BASF, KBR, Clariant</i>
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2:30 PM	Paper 2C	Successful Repair of a HP Scrubber Sphere Due to Undetected Carbamate Corrosion	Alex Scheerder	<i>Stamicarbon BV</i>
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3:00 PM	COFFEE BREAK			
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3:30 PM	Paper 2D	Damage of the Combustion Air Ducting of a KBR Ammonia Primary Reformer	Shawn Sankarsingh, Teresa Martinez, Dan Barnett	<i>Industrial Plant Services Limited, BD Energy Systems</i>
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4:00 PM	Paper 2E	Secondary Reformer Burner Tip Failure	Daniel Shelley, Jenni Dickson	<i>Koch Fertilizer-Enid, LLC</i>
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4:30 PM	Paper 2F	Inconel Weld Damage and Metal Dusting in Ammonia Plant Front End Equipment	Chris Butlin	<i>Nutrien (Formerly Agrium, and Potash Corp.)</i>
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TUESDAY, SEPTEMBER 10

8:00 AM	Paper 3A	Safe Startup with Topsøe Furnace Manager System: Case Study for World-Scale Hydrogen Plants	Ken Wohlgeschaffen, Scott Sexton	<i>Chevron and Haldor Topsøe</i>
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8:30 AM	Paper 3B	Rationalizing Safety Critical System	Usman Ali, Ahsan Sarfraz	<i>Fatima Fertilizer Company Limited, Pakistan</i>
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Program continues on the back

TUESDAY, SEPTEMBER 10 (CONTINUED)				
9:00 AM	Paper 3C	Damage of Refractory at the Support Area in Combustion Section of Secondary Reformer	Mohamed Mostafa Shams	Misr fertilizers Production Company "MOPCO"
9:30 AM	COFFEE BREAK			
10:00 AM	Paper 3D	Damage to Molecular Sieve Filters and Fouling of Purifier Following Bed Desiccant Change Out	Rajan Sinha, Neel Lalchan	Yara Pilbara
10:30 AM	Paper 3E	Pre-Commissioning, Commissioning, and Initial Start-up Experience of Ammonia-1B Plant	Sebastian Nababan	PT Petrokimia Gresik
11:00 AM	Paper 3F	Inspection for High Temperature Hydrogen Attack	Charles Thomas, Chris Jones, David Keen	Quest Integrity, Incitec Pivot Limited
11:30 AM	FREE TIME			
WEDNESDAY, SEPTEMBER 11				
8:00 AM	Paper 4A	Yara's Experience with Primary Reformer Revamp at its Ammonia Plant in Saskatchewan	Waseem Haider, Klaus Noelker	Yara Belle Plaine Inc., thyssenkrupp Industrial Solutions
8:30 AM	Paper 4B	Damage Mechanism Assessment and Methodology for Ammonia Equipment	Daniel Benac	Baker Engineering and Risk Consultants, Inc. (BakerRis)
9:00 AM	Paper 4C	Rupture of Piping and Fire in Synthesis Loop of an Ammonia Plant	J. Sondhi, M. R. Sharma	KRIBHCO, HAZIRA - SURAT - INDIA
9:30 AM	COFFEE BREAK			
10:00 AM	Paper 4D	Ammonia Terminal Case Study: Achieving SIS/SIL Compliance to ISA61511 via SharePoint	Curt Miller	SIS SILverstone LLC
10:30 AM	Paper 4E	Improving Energy Efficiency of IFFCO's Five Ammonia-Urea Plants	A. K. Singh, Piyush Misra	IFFCO
11:00 AM	Paper 4F	Accidental Releases across the Ammonia Supply Chain	Kathryn Lawrence, Gary Smith, Jerry Jones	EPA, ASTI
11:30 AM	LUNCH BREAK			
1:30 PM	Paper 5A	Lessons Learned in Emergency Shipments of Catalysts	John Brighting, Dave Hawkes, Charlie Peters	JM
2:00 PM	Paper 5B	Iowa Fertilizer - Safe and Effective Recovery of Ammonia Converter Loop	William Handel, Keegan Dunn	Iowa Fertilizer Company LLC, Clariant Corporation
2:30 PM	Paper 5C	Reformer Incident Caused by Carry-over of Dust from Desulphurisation Unit	Abrar Rafiq Muhammad Rafiq, Klaus Noelker	Ma'aden Phosphate, thyssenkrupp Industrial Solutions
3:00 PM	COFFEE BREAK			
3:30 PM	Paper 5D	Methanator Vessel Overheating - Why Still a Hot Topic?	M. Warzee, R. Babwah, G. Franceschini	Yara
4:00 PM	Paper 5E	Cracked Field Welds in Outlet Headers of a Primary Reformer After 34 Years of Operation	M. Grooten, R. Dubois, J. Stoffels, S. Schepers, Filip Raeymakers, M. Keltjens, R. Gomans	Sitech Services, OCI Nitrogen, Sintra Engineers, Materials & Corrosion Know How
ROUNDTABLE SESSION				
Thursday, September 12 ♦ 8:00 AM - 12:00 PM				
This year's Roundtable Session will provide open exchange and discussion through brief presentations from panelists, followed by a question-and-answer session on topics of interest such as:				
• Industry Incidents • Risks of Leaks in Urea Plants • Ammonia and Flammable Gas Leak Detection Systems				