



## PROGRAM

SUNDAY, SEPTEMBER 8	
12:00 PM - 5:00 PM	REGISTRATION
MONDAY, SEPTEMBER 9	
8:00 AM	Welcome from Committee Chair Michel Warzee – Yara
8:10 AM	<b>Keynote Address</b> Cultures and Process Safety Manny Ehrlich – CSB
9:00 AM	<b>Paper 1A</b> Major Fire Due to Synthesis Compressor Oil Tank Rupture Svein Hansen – Yara Porsgrunn
9:30 AM	COFFEE BREAK
10:00 AM	<b>Paper 1B</b> Advances in HTHA NDE, FFS in API 941, API 579, and Impact to Ammonia Producers Phil Prueter – The Equity Engineering Group, Inc.
10:30 AM	<b>Paper 1C</b> Mechanical Integrity of an Ammonia Plant: An Assessment Based on Bow-ties Peter Schmitz – OCI Nitrogen
11:00 AM	<b>Paper 1D</b> Uptime Improvement Journey Through Systematic Root Cause Analysis Ashutosh Shukla, Marc Hermus, Venkat Pattabathula – Dyna Nobel, Inc.
11:30 AM	LUNCH BREAK
1:30 PM	<b>Paper 2A</b> Causes for Process Gas Cooler (PGC) Tubesheet Thermal Disintegration and Mitigating Actions D. Sponseiler – Borealis Agrolinz Melamine GmbH D. Sparr – Bertsch
2:00 PM	<b>Standby Paper 3</b> A Smart Combustion™ Approach to Improve Operation and Efficiency of Steam Methane Rayford Forest, Chad Carroll, Eric Gebhard – John Zinc Hamworthy Combustion

**MONDAY, SEPTEMBER 9 (CONTINUED)**

2:30 PM	<b>Paper 2C</b> Successful Repair of a HP Scrubber Sphere Due to Undetected Carbamate Corrosion Alex Scheerder – <i>Stamicarbon BV</i>
3:00 PM	<b>COFFEE BREAK</b>
3:30 PM	<b>Paper 2D</b> 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>
4:00 PM	<b>Paper 2E</b> Secondary Reformer Burner Tip Failure Daniel Shelley, Jenni Dickson – <i>Koch Fertilizer-Enid, LLC</i>
4:30 PM	<b>Paper 2F</b> Inconel Weld Damage and Metal Dusting in Ammonia Plant Front End Equipment Chris Butlin, Samuel Okulaja – <i>Nutrien</i>

**TUESDAY, SEPTEMBER 10**

8:00 AM	<b>Paper 3A</b> Safe Startup with Topsøe Furnace Manager System: Case Study for World-Scale Hydrogen Plants Ken Wohlgeschaffen, Scott Sexton – <i>Chevron, Haldor Topsøe</i>
8:30 AM	<b>Paper 3B</b> Rationalizing Safety Critical System Usman Ali, Ahsan Sarfraz – <i>Fatima Fertilizer Company Limited, Pakistan</i>
9:00 AM	<b>Standby Paper 2</b> Optimizing SIS for Lifecycle Objectives; with Extension to Non-SIS Equipment Peter Herena – <i>Baker Engineering and Risk Consultants</i>
9:30 AM	<b>COFFEE BREAK</b>
10:00 AM	<b>Paper 3D</b> Damage to Molecular Sieve Filters and Fouling of Purifier Following Bed Desiccant Change Out Rajan Sinha, Neel Lalchan – <i>Yara Pilbara</i>
10:30 AM	<b>Paper 3E</b> Pre-commissioning, Commissioning, and Initial Start-up Experience of Gresik Ammonia Plant Sebastian Nababan, Joko Raharjo Nartosuharjo – <i>PT Petrokemia Gresik, Rohit Khurana – KBR</i>
11:00 AM	<b>Paper 3F</b> Inspection for High Temperature Hydrogen Attack Charles Thomas, Chris Jones, David Keen – <i>Quest Integrity; Incitec Pivot Limited</i>
11:30 AM	<b>FREE TIME</b>

**WEDNESDAY, SEPTEMBER 11**

8:00 AM	<b>Paper 4A</b> 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	<b>Paper 4B</b> Damage Mechanism Assessment and Methodology for Ammonia Equipment Daniel Benac – Baker Engineering and Risk Consultants, Inc.
9:00 AM	<b>Paper 4C</b> Rupture of Piping and Fire in Synthesis Loop of an Ammonia Plant J. Sondhi, M. R. Sharma – KRIBHCO
9:30 AM	COFFEE BREAK
10:00 AM	<b>Paper 4D</b> Ammonia Terminal Case Study: Achieving SIS/SIL Compliance to ISA61511 via SharePoint Curt Miller – SIS SILverstone LLC
10:30 AM	<b>Paper 4E</b> Improving Energy Efficiency of IFFCO's Five Ammonia-Urea Plants A. K. Singh, Piyush Misra – IFFCO
11:00 AM	<b>Paper 4F</b> Accidental Releases Across the Ammonia Supply Chain Kathryn Lawrence, Gary Smith, Jerry Jones – EPA; ASTI
11:30 AM	LUNCH BREAK
1:30 PM	<b>Paper 5A</b> Lessons Learned in Emergency Shipments of Catalysts John Brightling, Dave Hawkes, Charlie Peters – JM
2:00 PM	<b>Paper 5B</b> Iowa Fertilizer - Safe and Effective Recovery of Ammonia Converter Loop William Handel – Clariant Keegan Dunn – Iowa Fertilizer Company LLC
2:30 PM	<b>Standby Paper 4</b> Tunnel Optimization Performance Joe Price – BD Energy Systems, LLC
3:00 PM	COFFEE BREAK

## WEDNESDAY, SEPTEMBER 11 (CONTINUED)

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, F.

Raeymaekers, M. Keltjens, R. Gommans – *Sitech Services; OCI Nitrogen; Sintra Engineers; Materials & Corrosion Know How*

*This information is accurate as of August 22, 2019, and is subject to change.*

## 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:

- ◆ **Risks of Leaks in Urea Plants**
- ◆ **Ammonia and Flammable Gas Leak Detection Systems**
- ◆ **Industry Incidents**

