



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	Keynote Address Cultures and Process Safety Manny Ehrlich – CSB
9:00 AM	Paper 1A Major Fire Due to Synthesis Compressor Oil Tank Rupture Svein Hansen – Yara Porsgrunn
9:30 AM	COFFEE BREAK
10:00 AM	Paper 1B 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	Paper 1C Mechanical Integrity of an Ammonia Plant: An Assessment Based on Bow-ties Peter Schmitz – OCI Nitrogen
11:00 AM	Paper 1D 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	Paper 2A Causes for Process Gas Cooler (PGC) Tubesheet Thermal Disintegration and Mitigating Actions D. Sponseiler – Borealis Agrolinz Melamine GmbH D. Sparr – Bertsch
2:00 PM	Standby Paper 3 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 **Paper 2C**
Successful Repair of a HP Scrubber Sphere Due to Undetected Carbamate Corrosion
Alex Scheerder – *Stamicarbon BV*

3:00 PM **COFFEE BREAK**

3:30 PM **Paper 2D**
Damage of the Combustion Air Ducting of a KBR Ammonia Primary Reformer
Shawn Sankarsingh, Teresa Martinez, Dan Barnett – *Industrial Plant Services Limited, BD Energy Systems*

4:00 PM **Paper 2E**
Secondary Reformer Burner Tip Failure
Daniel Shelley, Jenni Dickson – *Koch Fertilizer-Enid, LLC*

4:30 PM **Paper 2F**
Inconel Weld Damage and Metal Dusting in Ammonia Plant Front End Equipment
Chris Butlin, Samuel Okulaja – *Nutrien*

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 – *Chevron, Haldor Topsøe*

8:30 AM **Paper 3B**
Rationalizing Safety Critical System
Usman Ali, Ahsan Sarfraz – *Fatima Fertilizer Company Limited, Pakistan*

9:00 AM **Standby Paper 2**
Optimizing SIS for Lifecycle Objectives; with Extension to Non-SIS Equipment
Peter Herena – *Baker Engineering and Risk Consultants*

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 – <i>Yara Belle Plaine, Inc.; thyssenkrupp Industrial Solutions</i>
8:30 AM	Paper 4B Damage Mechanism Assessment and Methodology for Ammonia Equipment Daniel Benac – <i>Baker Engineering and Risk Consultants, Inc.</i>
9:00 AM	Paper 4C Rupture of Piping and Fire in Synthesis Loop of an Ammonia Plant J. Sondhi, M. R. Sharma – <i>KRIBHCO</i>
9:30 AM	COFFEE BREAK
10:00 AM	Paper 4D Ammonia Terminal Case Study: Achieving SIS/SIL Compliance to ISA61511 via SharePoint Curt Miller – <i>SIS SILverstone LLC</i>
10:30 AM	Paper 4E Improving Energy Efficiency of IFFCO's Five Ammonia-Urea Plants A. K. Singh, Piyush Misra – <i>IFFCO</i>
11:00 AM	Paper 4F Accidental Releases Across the Ammonia Supply Chain Kathryn Lawrence, Gary Smith, Jerry Jones – <i>EPA; ASTI</i>
11:30 AM	LUNCH BREAK
1:30 PM	Paper 5A Lessons Learned in Emergency Shipments of Catalysts John Brightling, Dave Hawkes, Charlie Peters – <i>JM</i>
2:00 PM	Paper 5B Iowa Fertilizer - Safe and Effective Recovery of Ammonia Converter Loop William Handel – <i>Clariant</i> Keegan Dunn – <i>Iowa Fertilizer Company LLC</i>
2:30 PM	Paper 5C Reformer Incident Caused by Carry-over of Dust from Desulphurisation Unit Abrar Rafiq Muhammad Rafiq – <i>Ma'aden Phosphate</i> Klaus Noelker – <i>thyssenkrupp Industrial Solutions</i>
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*

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**

