



PROGRAM GUIDE

SUNDAY, AUGUST 30

12:00 PM –
5:00 PM

REGISTRATION

MONDAY, AUGUST 31

8:00 AM

Welcome from Committee Chair
John Mason – *Agrium, Inc.*

8:10 AM

Paper 1A - Keynote Address
60 Years: History of the AIChE Ammonia Safety Symposium
Jim Richardson – *Clariant*
Venkat Pattabathula – *Incitec Pivot Ltd.*

9:00 AM

Paper 1B
Improved Safety and Reliability by Improved Trip Interlock Systems
K. R. R. Kumar, R. Raghavan – *Nagarjuna Fertilizers and Chemicals Ltd.*

9:30 AM

COFFEE BREAK

10:00 AM

Paper 1C
Surprising Internal Damages on a Horizontal Ammonia Converter Basket
Ashutosh Shukla, Arie de Bruijne, Michel Warzee –
Yara Pilbara Fertilizer

10:30 AM

Paper 1D
From Potentially Unsafe to Unsafe by Inadequate Tube Plugging
Joost Roes – *Stamicarbon*

11:00 AM

Paper 1E
Commissioning of 2 x 50000 MT Ammonia Storage Tanks
Iftikhar H. Turi – *Qatar Fertilizer Company*

11:30 AM

LUNCH BREAK

1:30 PM

Paper 2A
Lower Cost Operation with Low Pressure Drop Support Grids in HTS and LTS Shift Reactors
Christopher Biegel – *Agrium, Inc.*
Dan Morton – *Haldor Topsøe*

2:00 PM	<p>Paper 2B</p> <p>Overpressure and Vacuum Protection Challenges for Low-Pressure and Atmospheric Storage Tanks</p> <p>David Pierce – <i>Southern Ionics</i> John Mason – <i>Agrium, Inc.</i></p>
2:30 PM	<p>Paper 2C</p> <p>Retubing Experience of Synthesis Loop WHB No 1 and Failure of Incoloy WHB No 2</p> <p>Geoff Blewett, Tamvada Srinivas, Giridhara Raju – <i>Qatar Fertilizer Company</i></p>
3:00 PM	COFFEE BREAK
3:30 PM	<p>Paper 2D</p> <p>Catastrophic Explosion in the CO₂ Removal Unit of an Ammonia Plant</p> <p>Alireza Orooji, S.Sajjad Hosseininia, Ehsan Askari Mahvelati – <i>Pardis Petrochemical Company</i></p>
4:00 PM	<p>Paper 2E</p> <p>Implementation of Best Practices for Improvements in Reformer Performance and Reliability</p> <p>James R. Widrig – <i>Quest Integrity Group</i> Giuseppe Franceschini – <i>Yara International</i></p>
4:30 PM	<p>Paper 2F</p> <p>Flange Disassembly – An Underrated Source of Safety Incidents</p> <p>Sam Tait – <i>Methanex New Zealand Ltd.</i></p>
TUESDAY, SEPTEMBER 1	
8:00 AM	<p>Paper 3A</p> <p>State-of-the-Art Leak Detection for Ammonia Piping and a Barge Loading Facility</p> <p>Andy Vluggen – <i>OCI Nitrogen (Sitech)</i> Dwight Eldredge – <i>Yokogawa</i></p>
8:30 AM	<p>Paper 3B</p> <p>Pulsations and Vibrations Control in Urea Plants</p> <p>Constantino Bruni, Leonardo Galimberti – <i>Casale S.A.</i></p>
9:00 AM	<p>Paper 3C</p> <p>Evaluation of Ammonia Converter Shell with Cracked Weld Defects for Continued Operation</p> <p>Ara Nalbandian – <i>Thielsch Engineering, Inc.</i> Steve Wilmes – <i>James Chemical Engineering</i> Wajid Bhatti, Azzam Azmi – <i>Fauji Fertilizer Company</i></p>
9:30 AM	COFFEE BREAK
10:00 AM	<p>Paper 3D</p> <p>Cleaner for Longer – Meeting the Reliability and Purification Demands of the Ammonia Process</p> <p>M. J. Cousins, P. J. Carnell – <i>Johnson Matthey</i></p>
10:30 AM	<p>Paper 3E</p> <p>The Process Safety Engineer's Role in Ammonia Plant Design and HAZOP Facilitation</p> <p>Glenn W. Parizot – <i>KBR</i></p>

11:00 AM	<p>Paper 3F</p> <p>Management of Remaining Life Based on the Outer Surface Conditions of Catalyst Tubes</p> <p>Toshikazu Shibasaki, Takashi Hokamura – <i>Chiyoda Corporation</i> Brian Shannon – <i>HScan International Company</i></p>
11:30 AM	FREE TIME
WEDNESDAY, SEPTEMBER 2	
8:00 AM	<p>Paper 4A</p> <p>Managing Cold Temperature and Brittle Fracture Hazards in Ammonia-Related Industries</p> <p>Daniel Benac, Dorothy Shaffer, David Wood – <i>Baker Engineering and Risk Consultants, Inc.</i></p>
8:30 AM	<p>Paper 4B</p> <p>Reformer Balancing for Optimization of the PCS Nitrogen Trinidad Unit 2 Primary Reformer</p> <p>Hugo S. Roberts – <i>Johnson Matthey Process Technology</i> Lawrence Sandy – <i>PCS Nitrogen Trinidad</i></p>
9:00 AM	<p>Paper 4C</p> <p>New Sealing System for the Main Flange Connections of Reactor 105-D</p> <p>Norbert Brett – <i>SKW Stickstoffwerke Piesteritz</i> Jurgen Deininger – <i>TUEV SUED</i> Franz Raymann – <i>Nord-Lock</i></p>
9:30 AM	COFFEE BREAK
10:00 AM	<p>Paper 4D</p> <p>Root Cause Analysis of Incidents During LTS Catalyst Reduction and Primary Reformer Coking Event</p> <p>Eugene Britton, Kateryna Glielova – <i>Mosaic Fertilizer</i> Timothy Rembold – <i>Clariant</i></p>
10:30 AM	<p>Paper 4E</p> <p>Challenges in the Integration of the QAFCO 5 & 6 Mega Fertilizer Complex</p> <p>Andrea Zambianco – <i>Saipem</i> Mohamed Noueiri – <i>QAFCO</i></p>
11:00 AM	<p>Paper 4F</p> <p>The Value of Primary Reformer Temperature Balancing and Monitoring</p> <p>Michael Dean – <i>C. F. Industries, Inc.</i> Kendra Briggs, Jamie Chisamore – <i>Johnson Matthey</i></p>
11:30 AM	LUNCH BREAK
1:30 PM	<p>Paper 5A</p> <p>Ureaknowhow.com Urea Incident Database: Learning from Each Other</p> <p>Jo Eijkenboom, Mark Brouwer – <i>Ureaknowhow</i></p>
2:00 PM	<p>Paper 5B</p> <p>Steam Reformers Overheating: Absolute Protection Now Available</p> <p>Oscar Olatte – <i>BD Energy Systems, LLC</i></p>

2:30 PM	<p>Paper 5C Automated Sensor Placement for Industrial Plants: A Case Study on Ammonia Plant Shahryar Khajehnajafi, Azar Shahraz – <i>Safer Systems LLC</i></p>
3:00 PM	<p>COFFEE BREAK</p>
3:30 PM	<p>Paper 5D GPIC Experiences in PG Cooler (E-301) Fouling Eyad Rafei – <i>Gulf Petrochemical Industries Company (GPIC)</i></p>
4:00 PM	<p>Paper 5E Tube-to-Tube Sheet Weld Scanning System Jen Peter Bertelsen – <i>Force Technology</i></p>
<p>THURSDAY, SEPTEMBER 3</p>	
8:00 AM – 12:00 PM	<p>Roundtable Session Program</p> <p>This year's Roundtable Session seeks to encourage open exchange and discussion through brief presentations from panelists followed by a question-and-answer session on the following topics:</p> <p>Topic 1: Post-Weld Heat Treatment</p> <p>Topic 2: High-Speed Equipment Monitoring and Protection Systems</p> <p>Topic 3: Operator Training</p> <p>Topic 4: Industry Incidents</p>