



SAFETY IN AMMONIA PLANTS &
RELATED FACILITIES SYMPOSIUM

Program for 2012 AIChE Ammonia Safety Symposium

Hyatt Regency Chicago • Chicago, IL
September 9 – 13, 2012

SUNDAY, SEPTEMBER 9	
REGISTRATION	
MONDAY, SEPTEMBER 10	
8:00 AM	Welcome from Committee Chair John Brightling – <i>Johnson Matthey</i>
8:10 AM	Keynote North American Unconventional Shale Gas – A Game Changer Greg Haas – <i>Hart Energy</i>
9:00 AM	Paper 1a Occupational Safety for Employees Working Across a Globalized Industry Harsh Agarwal – <i>Johnson Matthey</i>
9:30 AM	COFFEE BREAK
10:00 AM	Paper 1b Evaluation of Risks Related to the Transport of Anhydrous Ammonia and their Mitigation by Localized Small Scale Production Dennis Lippmann – <i>Uhde Corporation of America</i>
10:30 AM	Paper 1c Multi-layered Secondary Urea Reactor Failure Marc Gilbertson – <i>CVR Energy</i> Daniel Benac – <i>BakerRisk</i>
11:00 AM	Paper 1d A.F.C. Experience in Primary Reformer Tubes During 30 Years: Failures, Avoiding Problems, and Improving Performance Atef Hassan saad El-Din – <i>Abu Qir Fertilizers</i>
11:30 AM	LUNCH BREAK
1:30 PM	Paper 2a High Emissivity Ceramic Coating of Furnace Walls in Tubular Reformers – Theory and Practice John Bacon – <i>Cetek Limited</i> Venkat Pattabathula – <i>Incitec Pivot Ltd</i>
2:00 PM	Paper 2b Failure of Weld of F-11 Bottom Flange with Micro Alloy Catalyst Tubes of Primary Reformer Anwar Mahmood Shahid – <i>Fauji Fertilizer Bin Qasim Limited</i>

2:30 PM	Paper 2c Implementation of the API RP 584 Integrity Operating Windows Methodology at the Gibson Island Ammonia Manufacturing Plant Luke Bateman – <i>Incitec Pivot</i> Quinton Rowson – <i>Quest Integrity</i>
3:00 PM	COFFEE BREAK
3:30 PM	Paper 2d Steam Reformer Pigtail Failures Charles Ormsbee – <i>Agrium, Inc.</i>
4:00 PM	Paper 2e Combining New Synthesis Loop Revamp Technology with KREST™ Increases Ammonia Plant Capacity & Energy Efficiency Kamal Gursahani – <i>KBR, Inc.</i>
4:30 PM	Paper 2f Is Hot Restart Jeopardizing Plant Safety? Niels Kristian Nielsen – <i>Haldor Topsoe A/S</i>
TUESDAY, SEPTEMBER 11	
8:00 AM	Paper 3a Carbon Scrubber Hydrogen Attack and Gasification Unit Corrosion Ruben Wageck – <i>Vale Fertilizantes</i> Mauro Araujo – <i>Araujo Engenharia</i>
8:30 AM	Paper 3b Metal Dusting in 1-1/4 Cr ½ Mo and SS 304H Feed Gas Coil after Installation of De-Sulfurization Unit Upstream of Primary Reformer Ahmed Attyub, Sadik Bashir – <i>Fauji Fertilizer Bin Qasim Limited</i>
9:00 AM	Paper 3c Successful Management of a 102-C Waste Heat Boiler Leak by Close and Effective Collaboration Between Operator and Water Treatment Supplier William Cook, Lancey Knebel – <i>Champion Technologies</i>
9:30 AM	COFFEE BREAK
10:00 AM	Paper 3d Case Study of Weld Cracking in 2 ¼ Cr-1Mo-1/4 V Heavy Wall Ammonia Converter John Li, Darrell Svec – <i>KBR, Inc.</i>
10:30 AM	Paper 3e What Can a Plant Owner do When Operating a Plant in an Environment with Limited Gas Supply? MD. Ali Akkas Mazumder – <i>Karnaphuli Fertilizer Company Limited</i>
11:00 AM	Paper 3f Impact Minimization of Cooling Tower Failure and Replacement Travis Kunnemann – <i>Agrium U.S., Inc.</i>
WEDNESDAY, SEPTEMBER 12	
8:00 AM	Paper 4a To Minimize Risks of Catastrophic Failure in Urea Plant Process Lines Requires RBI Methodologies Alex Scheerder – <i>Stamicarbon BV</i>
8:30 AM	Paper 4b Reliable Design of Ammonia and Urea Plants Sergio Panza, Andrea Scotto – <i>Casale Group</i>
9:00 AM	OPEN
9:30 AM	COFFEE BREAK

10:00 AM	Paper 4d Failure of Waste Heat Boiler In a Kellogg Design Ammonia Plant (Failure Analysis and Repair Methodology) Mohamed Masood Ahmad, Mukul Srivastava – <i>Indian Farmers Fertiliser Cooperative Limited – Phulpur Unit</i>
10:30 AM	Paper 4e LTS Safe & Proven Recovery Strategies Ken Chlapik – <i>Johnson Matthey</i>
11:00 AM	Paper 4f Failure of LP Flash Drum Packing Bed Support Umesh Desai, Geoff Blewett – <i>Qatar Fertiliser Company</i>
11:30 AM	LUNCH BREAK
1:30 PM	Paper 5a An Innovative Safety Solution for Overpressure Protection in the Urea Synthesis Section Andreas Caldonazzi – <i>Leser Germany</i> Mark Brouwer – <i>UreaKnowHow.com</i>
2:00 PM	Paper 5b Back-to-Basics: Maximizing Plant Performance Through a Better Understanding of the Basics in Catalytic Reactor Operation and Problem Avoidance Michelle Anderson, Scott Osborne – <i>Süd-Chemie, Inc.</i>
2:30 PM	Paper 5c Water Wash of Pre-Reformer Catalyst Nikhil Das – <i>Yara Belle Plaine, Inc.</i>
3:00 PM	COFFEE BREAK
3:30 PM	Paper 5d Ammonia Plant Capacity Increase by Autothermal Reforming and Dual Pressure Synthesis Klaus Noelker – <i>Uhde GmbH</i>
4:00 PM	Paper 5e Mechanical Tube Plug Technology for High Pressure Heat Exchangers in Ammonia and Urea Plants A.G.C.M. (Ron) de Rijk – <i>EST Group BV</i>

For more information about the AIChE Ammonia Safety Symposium or to register, please contact **Iliak F. Killeen** at 646-495-1316 or iliak@aiche.org.

www.aiche.org/ammonia2012