



Attend the 59th Annual Safety in Ammonia Plants and Related Facilities Symposium

Hyatt Regency Vancouver • Vancouver, BC, Canada • September 7 – 11, 2014

Each year, the Ammonia Symposium allows over 400 professionals concerned with safety and reliability issues in the nitrogen and gas reforming industries to share recent developments.

PROGRAM			
TIME	PAPER	TITLE	AUTHOR(S) – COMPANY
SUNDAY, SEPTEMBER 7			
12:00 PM – 5:00 PM		REGISTRATION	
MONDAY, SEPTEMBER 8			
8:00 AM		Welcome from Committee Chair	David Pierce – <i>Southern Ionics, U.S.</i>
8:10 AM		Keynote Address	Rafael Moure-Eraso – <i>Chairman, U.S. Chemical Safety Board</i>
9:00 AM	1a	Managing SOS, POS and MOS to Minimize Major Incidents	Venkat Pattabathula – <i>Incitec Pivot Ltd., Australia</i> Raghava Nayak – <i>Functional Safety Expert, Australia</i>
9:30 AM	COFFEE BREAK		
10:00 AM	1b	Experiences with 2.25Cr-1 Mo-Steel Equipment in the Ammonia Synthesis Loop After 30 Years in Service	Bernhard Geis, Hans-Jürgen Bassler – <i>BASF SE, Ludwigshafen, Germany</i>
10:30 AM	1c	Failure and Repair on the Liner of a High Pressure Carbamate Condenser	Shane Roysum – <i>Yara Belle-Plaine, Canada</i> Vincent Duponchel, Johan Thoelen – <i>Yara, Belgium</i>
11:00 AM	1d	High Pressure Reforming – KBR Experience	Avinash Malhotra, Umesh Jain – <i>KBR, U.S. & India</i>
11:30 AM	LUNCH BREAK		
1:30 PM	2a	Laser Based Ammonia Detection Increases Performance and Reliability in Ammonia Compression Facilities	Hamish Adam, John Selby – <i>Boreal Laser Inc, U.S.</i> Paul Valentine – <i>M&M Systems, Inc., U.S.</i>
2:00 PM	2b	Stress Corrosion Cracking Issues in Syngas Plants that May be Missed by Risk Based Assessment	D. M. Firth, C. W. Thomas – <i>Quest Integrity Group, New Zealand</i> Manoj Thakur – <i>CSBP Limited, Australia</i> Peter Tait – <i>Methanex, New Zealand</i> Hotdo Pasaribu – <i>KPA, Indonesia</i>
2:30 PM	2c	Primary Reformer Incident that Ends in Catalyst Tube Failure	Charles Ormsbee, David Craig, Alan Roe, John Mason – <i>Agrium Partnership, Canada & U.S.</i>
3:00 PM	COFFEE BREAK		
3:30 PM	2d	The Importance of Catalyst Design in Managing the Impact of Transient Operating Conditions in Ammonia Plants	Peter Farnell, Mikael Carlsson – <i>Johnson Matthey plc, United Kingdom</i>
4:00 PM	2e	In-service Inspection of Atmospheric Ammonia Storage Tanks	Giuseppe Franceschini, Arie de Bruijne, Johan Thoelen, Vianney Amrhein, Olav Storkaas – <i>Yara International, Norway</i> Ole Nørrekeær Mortensen, Jens Erik Olsen – <i>FORCE Technology, Denmark</i>
4:30 PM	2f	Commissioning and Start-up of QAFCO 5 and 6	Ali A. Jama – <i>Qatar Fertilizer Company (QAFCO), Qatar</i>
TUESDAY, SEPTEMBER 9			
8:00 AM	3a	Safe Start-up of Ammonia / Urea Plants Under Challenging Circumstances	Klaus Noelker – <i>ThyssenKrupp Uhde, Germany</i>
8:30 AM	3b	Overview of Chinese Ammonia Industry	Cai Zeng – <i>Clariant, China</i>

Program continued on the next page

PROGRAM (Continued)			
9:00 AM	3c	Convection Section Failure Analysis and Fitness-for-Service Assessment	James R. Widrig – <i>Quest Integrity Group, LLC, U.S.</i> Neil Schroetlin – <i>Dakota Gasification Company, U.S.</i>
9:30 AM	COFFEE BREAK		
10:00 AM	3d	Sustained Operating Performance of Lutianhua Ammonia Plant After 50% Capacity Increase Through Revamping	Chen Jiming – <i>Lutianhua (LTH), China</i> Annie Jing – <i>KBR, U.S.</i>
10:30 AM	3e	Operating a Urea Plant with Small Leaks Poses a Potential Safety Risk	Alex Scheerder – <i>Stamicarbon bv, Netherlands</i>
11:00 AM	3f	Repair and Restoration of a Large Carbonate Vessel After Implosion	Syed Naveed Haider – <i>Fauji Fertilizer Company Ltd., Pakistan</i>
11:30 AM	FREE TIME		
WEDNESDAY, SEPTEMBER 10			
8:00 AM	4a	Metallurgical and Catalyst Effects from Airflow Condition into HTS	Sean Ukele, Shawn Carnine – <i>CF Industries, U.S.</i> Zachary Singer – <i>Clariant Corporation, U.S.</i>
8:30 AM	4b	Failure of Methanator Feed Effluent Exchanger Tubes Due to Benfield Solution Carryover	Anwar Mehmood Shahid – <i>Fauji Fertilizer Bin Qasim Limited, Karachi, Pakistan</i>
9:00 AM	4c	Plate-Type Air Preheaters on SMR's in the Ammonia Industry	Jack Hardie, Jared Tusia – <i>Increase Performance, Inc., U.S.</i>
9:30 AM	COFFEE BREAK		
10:00 AM	4d	The Revamping of CF Industries #5 NH3 Plant: Application of Casale's Isothermal Technology and Clariant's AmoMax®-10 Catalyst	Michael Dean – <i>CF Industries, U.S.</i> Davide Carrara – <i>Ammonia Casale, Switzerland</i> Tim Rembold – <i>Clariant, U.S.</i>
10:30 AM	4e	Enhancing Reliability in Plants Operating Significantly Above Nameplate Capacity	Bhaskar Rani – <i>Agrium, Canada</i> Mahesh Gandhi and Robert Burlingame – <i>KBR, U.S.</i>
11:00 AM	4f	Unusual Reformer Events and Modeling	Dorothy F. Maxwell Shaffer, Anthony Sarrack, Kelly Thomas – <i>Baker Engineering and Risk Consultants, Inc., U.S.</i>
11:30 AM	LUNCH BREAK		
1:30 PM	5a	Plant Preservation: Issues & Remedies	Asim Rasheed Qureshi, Syed Ali Raza Sani – <i>Engro Fertilizers Limited, Pakistan</i>
2:00 PM	5b	CO ₂ Capture from Steam Methane Reformers – Understanding the Options	Christine Kandziora, Ken Lamb, Goutam Shahani – <i>Linde, U.S.</i>
2:30 PM	5c	Prevention of a Potential Catastrophic Failure of High Pressure Condenser in a Urea Plant	Roberto Gorza – <i>Casale, Switzerland</i>
3:00 PM	COFFEE BREAK		
3:30 PM	5d	Lessons Learned from High Pressure Process Boiler Failure	Larry Walker, Keith Wilson – <i>PCS Nitrogen Fertilizer LP, Augusta, GA, U.S.</i>
4:00 PM	5e	Cost Effective CO ₂ Capture from Flue Gas for Increasing Methanol Plant Production	Satish Reddy, John Gilmartin, Joseph Yonkoski, Mukund Bhakta – <i>Fluor Corp., U.S.</i>

2014 AIChE Ammonia Safety Symposium Roundtable Session Program

Thursday, September 11 • 8:00 AM – 12:00 PM

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:

Topic 1: HTS Catalyst Issues and Developments

Topic 2: Communication Policies and Procedures Inside Process Plants

Topic 3: Industry Incidents



This information is accurate as of June 27, 2014, and is subject to change.
For complete conference information, please visit www.aiche.org/ammonia2014 or contact Ilia F. Killeen at 646-495-1316 or iliak@aiche.org.