



Frankfurt  
Marriott Hotel  
Frankfurt,  
Germany

AUGUST  
25 – 29,  
2013



SAFETY IN AMMONIA PLANTS &  
RELATED FACILITIES SYMPOSIUM

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# 58<sup>th</sup> Annual Safety in Ammonia Plants and Related Facilities Symposium

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

**NEW in 2013:**  
*Celebrating 100 Years of Haber-Bosch  
Ammonia Production Technology*  
Join us for the BASF Ludwigshafen/Heidelberg  
Tour on Tuesday, August 27.

PRELIMINARY PROGRAM			
TIME	PAPER	TITLE	AUTHOR(S) – COMPANY
<b>MONDAY, AUGUST 26</b>			
08:00		Welcome from Committee Chair	Anil Kumar Singh – <i>IFFCO</i>
08:10		Keynote Address	Wayne T. Smith – <i>BASF</i>
08:45	1A	One Hundred Years of Ammonia Production – A Recap of Significant Contributions to Feeding the World	Gerald Williams – <i>Plant Surveys International</i> Venkat Pattabathula – <i>Incitec Pivot</i>
09:15	<b>COFFEE BREAK</b>		
10:00	1B	Assessment of the Safety Risks in Running the Single Train Ammonia Unit with Partially Overridden Shutdown System	Nenad Zecevic, Zlatko Babic, Renato Kamenski – <i>Petrokemija Plc. Croatia, Kutina</i>
10:30	1C	Methanol Emission from Ammonia Plants and Its Reduction	Klaus Noelker – <i>ThyssenKrupp Uhde</i> John Pach – <i>Johnson Matthey</i>
11:00	1D	Achieving Ultra-Low NOx Emissions in Methanol Downfired Applications	Rex K. Isaacs, Nigel Palfreeman, Ryan Roberts – <i>Zeeco, Inc.</i>
11:30	<b>LUNCH</b>		
13:30	2A	Life Time Extension of Urea Reactors	Joost Roes, Jos Blättler – <i>Stamicarbon B.V.</i>
14:00	2B	Excessive Corrosion in a Medium Pressure Decomposer (MPD) of Urea Plant	Ali Jama, Jean-Pierre Heinis – <i>Qatar Fertiliser Company</i>
14:30	2C	Handling a Leak in High Pressure Carbamate Condenser	Khaled Al-Khuraimi – <i>SAFCO</i>
15:00	<b>COFFEE BREAK</b>		

**PRELIMINARY PROGRAM (Continued)**

TIME	PAPER	TITLE	AUTHOR(S) – COMPANY
15:30	2D	Fluid Sealed Box-up – An Online Technique to Arrest Corrosive Service Leakages	Muhammad Idrees, Meer Salman Muddasar – <i>Engro Fertilizers Ltd. Pakistan</i>
16:00	2E	Planning for Hundred-Fold Increase in Global Ammonia Production	William Ahlgren – <i>California Polytechnic State University SLO</i>
16:30	2F	Fast Detection and Localization of Small Ammonia Leakages Using Distributed Fibre Optic Sensors	Rob de Bont – <i>YARA France</i> Daniele Inaudi – <i>SMARTEC SA</i>
<b>TUESDAY, AUGUST 27</b>			
<b>FREE DAY — Heidelberg/BASF Tour</b>			
<b>WEDNESDAY, AUGUST 28</b>			
08:00	3A	100 Years of Ammonia Synthesis Technology	Ib Dybkjær – <i>Haldor Topsøe A/S</i>
08:30	3B	Plant Reliability Improvement Through the Replacement of Ammonia Converter Baskets	Kristina Balch, Robert Handford – <i>Dyno Nobel</i> Venkat Pattabathula – <i>Incitec Pivot</i> Elio Strepparola – <i>Ammonia Casale</i>
09:00	3C	Successful Installation and Startup of an S-300 Ammonia Converter Basket	W. Clark Liddon – <i>CF Industries</i>
09:30	<b>COFFEE BREAK</b>		
10:00	3D	Strange Operation Experience in Synloop Boiler Ends in Extensive Repair of Ammonia Converter Cartridge	Reinhard Michel – <i>ThyssenKrupp Uhde</i> Fahad Abdullah Al Sawat – <i>Saudi Arabian Fertilizer Company (SAFCO)</i>
10:30	3E	Conventional Ammonia Plant Revamp with Purifier	Meghji Shah – <i>KBR</i> Rajesh K. Aggarwal – <i>KRIBHCO</i>
11:00	3F	Rehabilitation of a 1440 T/D Ammonia Plant	Francisco Morales Olán – <i>Petróleos Mexicanos (PEMEX)</i>
11:30	<b>LUNCH</b>		
13:30	4A	The Ammonia Production Process – A Challenge for Materials, Fabrication and Design of the Components	Michael Bachtler, Jürgen Korkhaus – <i>BASF SE</i>
14:00	4B	Convection Section Failure Analysis and Fitness-for-Service Assessment	James R. Widrig – <i>Quest Integrity Group</i> Neil Schroetlin – <i>Dakota Gasification</i>
14:30	4C	Reformer Component Management After an Overheating Incident that Resulted in Tube Failures	David M. Firth, Charles W. Thomas – <i>Quest Integrity Group</i> Manoj Thakur, Ron Caporn – <i>CSBP</i>
15:00	<b>COFFEE BREAK</b>		
15:30	4D	Elevated-Temperature Failure Mechanisms in Ammonia Plant Equipment – Reducing the Risk of Failure	Dan Benac – <i>BakerRisk Engineering and Consultants</i>
16:00	4E	Experiences During Manufacturing of Reformer Outlet Pigtails	Pedro Imizcoz – <i>Schmidt + Clemens Spain</i> Peter Tait – <i>Methanex Corporation</i> Milo V. Kral – <i>University of Canterbury</i>
16:30	4F	PIM-2, Failure of the Secondary Reformer WHB	Robert Burlingame, Lili Djadjuli – <i>KBR</i>
<b>THURSDAY, AUGUST 29</b>			
08:00	5A	Ammonia Production — A Century of Safety, Health & Environmental Improvements	John Pach, John Brightling – <i>Johnson Matthey</i>
08:30	5B	Improvements in Reformer Monitoring – In-Tube Temperature Measurement	Oliver J. Smith – <i>Air Products</i>
09:00	5C	Operational and Safety Improvements in Foster Wheeler Terrace Wall Reformers	Rainer Basse – <i>Foster Wheeler</i>
09:30	<b>COFFEE BREAK</b>		
10:00	5D	Implementation of Process Safety Key Performance Indicators in a Large Fertilizer Complex	Shailender K. Bhandari, Cristiano Azevedo – <i>Qatar Fertiliser Company</i>
10:30	5E	Catastrophic Failure of Ammonia Synthesis Loop Boiler Feedwater Heater	Eugene R. Britton – <i>Mosaic Fertilizer, LLC</i>
11:00	5F	Catastrophic Fire in Ammonia Plant Compressor Room at GPN Grand-Quevilly	Patrick Le Calvé – <i>GPN</i>

This information is accurate as of March 22<sup>nd</sup>, 2013 and is subject to change. For complete conference information, please visit [www.aiche.org/ammonia2013](http://www.aiche.org/ammonia2013).

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