



65th Safety in Ammonia Plants & Related Facilities Symposium

 **VIRTUAL** August 30 - September 2, 2021

PRELIMINARY PROGRAM

	TITLE	AUTHOR(S)	COMPANY
MONDAY, AUGUST 30, 2021 8:00 AM – 4:00 PM US CENTRAL STANDARD TIME			
8:00	Welcome from Committee Chair	Scott Rodrigue	CF Industries
8:10	Keynote Address - Clean Ammonia: Scaling Up for New Opportunities	Trevor Brown	Ammonia Energy Association
9:00	Improving Safety and Reliability of Ammonia Plants with Focus on Water Treatment	Venkat Pattabathula, Dr. Robert Terrell	Industrial Water Consultants
9:30	BREAK		
10:00	Failure of a Hot Walled Ammonia Synthesis Converter at Yara Sluiskil	J. Thoelen, F. Vaes, R. Bosselaar, S. Cavalleri, et al.	Yara
10:30	Prevention of Stress Relaxation Cracking in Ammonia Plants - The Haldor Topsøe Approach	Maria J. L. Østergård Ph.D., Anette N. Hansson, Ph.D.	Haldor Topsoe A/S
11:00	Lessons Learned in Nickel Catalyst Handling	C. Döring & S. Struck, J. Brightling & J. Pach & A. Richardson	UNIDENSE GmbH, Johnson Matthey
11:30	BREAK		
13:00	Designing a Toxic Shelter, an Art and Science	Anthony Sarrack and Murtaza Gandhi	BakerRisk
13:30	Major Failure of an Ammonia Synthesis Converter Internals Due to Overpressure	Gary L. Acosta, Ousher Bhagwandeem, Nizam Abdool	Proman
14:00	Corrosion Failure of New CO2 Stripper Reboiler in Benfield Service	Ryan E. Redd, Jordan Strunk	KOCH Fertilizer Enid LLC
14:30	BREAK		
15:00	ActiSafE - The Next Level of Safe Ammonia Synthesis Catalyst Reduction	Dirk Sperling, Scott Osborne, Stephan J. Reitmeier, Stefan Maier, Rene Eckert	Yara, Clariant
15:30	Failure of a 316H Stainless Steel High Pressure Steam Superheater Header	Charles Thomas, Maher Hussein and Mohamad Medhat	Quest Integrity NZL Ltd., Egyptian Methanex Methanol Company S.A.E.
TUESDAY, AUGUST 31, 2021 8:00 AM – 4:30 PM US CENTRAL STANDARD TIME			
8:00	Eliminating the Safety Risks of a Fired Start-up Heater	Avneesh Sharma, Michael Hultqvist, and Svend Erik Nielsen	Haldor Topsoe A/S
8:30	Failure Analysis and Field Repair of Urea Reactor Shell Rupture	Ravinder Singh & Dr. Krishnan Sivaraman, Tushar Bhagwat	Larsen & Toubro, Rashtriya Chemicals & Fertilizers
9:00	Explosion Risks in High Pressure Scrubbers of CO2 Stripping Urea Plants	Harald Jorritsma	Stamicarbon
9:30	BREAK		
10:00	The #1 Safeguard for Any Urea Plant	Prem Baboo, Mark Brouwer & Jo Eijkenboom, Majid Mohammadian	Dangote Fertilizer, UreaKnowHow, OCI
10:30	Integrity Assessment and Restoration of a Urea Reactor Following Repeated Failures	Roberto Gorza	Casale SA

11:00	Explosion Inside HP Urea Reactor	Freddy Buitink, Hans van den Tillaart	Stamicarbon
11:30	BREAK		
13:00	Installation of an Early Warning Solution for Gas Leaks for the OCI Urea and Melamine Complex at Chemelot Industrial Park	René Braun, Peter Schmitz	Grandperspective GmbH, OCI
13:30	25 Years of Experience With a Retrofitted aMDEA CO2 Removal System	M. Grooten, W. Ploumen	OCI Nitrogen, SiTech
14:00	Review of Layer of Protection Analysis Results After Process Safety Incidents	Hans Juergen Essl, Daniel Sandholzer, Leonhard Werner, Georg Zimmer	Borealis
14:30	BREAK		
15:00	Corrosion Under Insulation - An Underestimated Damage Mechanism	Arie de Bruijne, Waseem Haider, P.Eng.	Yara Belle Plaine, Inc.
15:30	SAFCO III Ammonia Revamp Project – Plant Start-up and Commissioning	Saad Ali Al-Maymoni, Shamik Bhattacharya & Kaushal Bhatt	SAFCO, KBR
16:00	Safe Operations of Low Temperature Shift Reactors Under Harsh Conditions	Keegan Dunn, Andy Vluggen, Cristoph Kringner	OCI Iowa Fertilizer Company, OCI Nitrogen, Clariant

WEDNESDAY, SEPTEMBER 1, 2020
8:00 AM – 4:00 PM US CENTRAL STANDARD TIME

8:00	Experience with Repair and Replacement of the Second Ammonia Converter (R-0502) in the Ammonia Plant-1A of Pupuk Kaltim Fertilizer	Anindito Priyambudi, Yudhistira Perdana Putra, Majus Luther Sirait, Akhmad Sajidin	PT Pupuk Kalimantan
8:30	Advanced Process Control (APC): Striving for Real Time Optimization at 2194 MTPD Ammonia Complex	Safi Ullah Khan, Muhammad Waqas Quraishi, Muhammad Majid Latif	Engro Fertilizers Limited
9:00	Process Safety Times: Their Meaning and Determination	Klaus Noelker, Carina Will, Christoph Meissner	thyssenkrupp Industrial Solutions
9:30	BREAK		
10:00	Experience and Lessons Learned in Management of Change at Yara	Vincent Duponchel	Yara
10:30	Operation, Inspection and Maintenance of Ammonia Tanks: A Kavala Fertilizers Case Study	Dr Theodora Kouloura	KAVALA FERTILIZERS Ltd
11:00	Damage Mechanisms and Lifetime Estimations in Steam Reformer Tubes	Dr. Pablo Cardín, Pedro Imízcoz, Dr. Dietlinde Jakobi	Schmidt+Clemens Group
11:30	BREAK		
13:00	Predictive Corrosion and Mechanical Failure of Static Equipment	Ahmed Mhaoui	OCI Nitrogen / Sitech Manufacturing Service
13:30	Low-NOx Retrofit Project to Meet New EU Emissions Directives and Increase Efficiency	Nigel Palfreeman, Ashley Lynk	Zeeco Europe Ltd.
14:00	Successful Execution of a 2200 MTPD Synloop in Freeport, Texas	Omar Ismail, Taylor Archer, Ved Gupta	BASF, Clariant, Yara
14:30	BREAK		
15:00	Secondary Reformer Revamp in Ammonia Plants with Improved Safety, Efficiency, and Operational Reliability	John Li, Kaushal Bhatt, Robert Lin	KBR
15:30	Loss Prevention Learnings from Beirut and Similar Ammonium Nitrate Explosions	Lorenz Boeck, Patrick Mahan	FM Global

THURSDAY, SEPTEMBER 2, 2021
8:10 AM – 12:00 PM US CENTRAL STANDARD TIME

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:

- Industry Incidents and Near Misses
- Improvement of Safety

This information is subject to change.