

Nitrogen+Syngas
USA Expoconference
21 Apr 2026

07:30 | Registration & Exhibition Open

PLENARY

🕒 08:30 - 08:40



Welcome Address



Nicola Coslett
CEO - Communities, [CRU](#)

🕒 08:40 - 09:10



Nitrogen Market Outlook 2026: Strategic Insights on Markets, Prices, Costs & Trade Flows

The presentation will provide a comprehensive outlook on the nitrogen markets in 2026, offering critical insights into the economic and geopolitical factors shaping the industry. Feedstock volatility, rapidly evolving trade policy, supply chain disruption, expanding



Justin Rackleff
Americas Lead, Fertilizer Value Chain, [CRU](#)

🕒 09:10 - 09:50



Industry Open Forum: Managing Turnarounds Across the Nitrogen & Syngas Chain



Mark Bosch
Senior Turnaround Event Manager, [Nutrien](#)



Taylor Archer
Senior Sales Manager, Syngas, [Clariant](#)



Christina Waller
Business Development , [TEK-FINS, LLC](#)

09:50 | Networking Break

PLENARY

🕒 10:20 - 11:05



Process Safety Incidents

Panel Discussion

What significant incidents has your company had?



Ken Wohlgeschaffen
Team Leader, [Chevron Products Company](#)



Theo Warner
Director of Engineering, [J.R. Simplot](#)



Justin Dansbury
Corrosion and Materials Engineer, [Becht](#)



Woody Rittenberger
Senior Process Engineer, [Koch Ag & Energy Solutions, LLC](#)

🕒 11:05 - 11:50



Employing and Training the Next Generation of Engineers, Operators, and Managers:

Panel Discussion

Philosophies on retaining and managing new generations of workers.



George Galloway
Lead Process Engineer – Hydrogen, [Chevron Products Company](#)



Dave Craig
Senior Specialist - Process Engineering , [Nutrien](#)



Dallas Robinson
Projects Director, [BD Energy Systems](#)



Kendra Briggs
Syngas Sales & Strategic Manager . [Johnson Matthey](#)

11:50 | Networking Lunch

PROCESS	MECHANICAL/MAINTENANCE
🕒 13:40 - 14:10 ★ Kellogg NH₃ Plant - LTS Flow Split Discover how Nutrien transformed its 1960s Kellogg Geismar, Louisiana ammonia plant into the most extensively debottlenecked facility of its  Michael Dunlop Senior Manager, Process Engineering, Nutrien  Brad Rachal Senior Process Engineer, Nutrien	🕒 13:40 - 14:10 ★ Addressing Localized Mineral Scale Deposition in Utilities Water Systems using Online Chemical Cleaning Techniques Mineral scale in cooling-water heat exchangers can quickly become a hidden production bottleneck, especially as towers run at higher cycles  Christopher Gunville Industrial Process Product Portfolio Application Expert, Veolia  Tony Dvorak Process Engineer, Koch Fertilizer
🕒 14:10 - 14:40 ★ MultipleTube Failures and Furnace Damage which Occurred during Startup of a Large Hydrogen Plant Learn from a real start-up incident in a large hydrogen plant where steam methane reforming furnace tube failures led to multiple leaks and  Ken Wohlgeschaffen Team Leader, Chevron Products Company	🕒 14:10 - 14:40 ★ SMR Waste Heat Boiler Outage Inspection Tasks, Examples of Findings & Solutions Make every SMR turnaround count with a practical deep-dive on Waste Heat Boiler inspections. Learn how to plan, prioritize, and execute gas-  Lester Stanley Principal Engineer, HRST, Inc.
🕒 14:40 - 15:10 ★ Process Gas Backflow Causes LTS Runaway Reaction Hear the Fort Dodge ammonia plant's 2024 startup near-miss: a short shift reactor runaway that exceeded vessel MAWT. Despite isolation,  Jackson Lee Process Engineer, Koch Fertilizer	🕒 14:40 - 15:10 ★ Managing HTHA Risks in a Syngas Plant Planned major capital work between the 7th and 8th editions of API RP 941 may have left syngas equipment operating above today's HTHA  Justin Dansbury Corrosion and Materials Engineer, Becht

15:00 | Networking Break

PROCESS	MECHANICAL/MAINTENANCE
🕒 15:40 - 17:10 ★ TRAINING WORKSHOP Revamp and New Build Insights for Reliable, Low Carbon Ammonia Plants This workshop shares practical experience from revamps and new build ammonia projects, focusing on improving reliability, optimizing energy  VK Arora Director- Process Tech & Projects, Kinetics Process Improvements (KPI)  Mahesh Gandhi Principal Process Consultant, Kinetics Process Improvements (KPI)	🕒 15:40 - 17:10 ★ TRAINING WORKSHOP Designing and Operating your SMR to Reduce Failures Restore SMR furnace reliability by mastering real-world heat-transfer non-uniformity. This mechanical training workshop explains why uniform  Dan Barnett Vice President of Engineering, BD Energy Systems, LLC

17:15 | Welcome Reception

18:00 – 23:00 | Waterford Room I Hospitality Suite I Kinetix, BASF, Clariant & BD Energy

18:30 – 22:30 | Bel-Air Room I Hospitality Suite I Topsoe

Nitrogen+Syngas
USA Expoconference
22 Apr 2026

07:30 | Breakfast Buffet / Registration Open

07:30 | Exhibition Open

PROCESS	MECHANICAL/MAINTENANCE
🕒 08:30 - 09:00 ★ Hydrogen Plant Packed Bed Failure in CO₂ Removal System Resulting in Potential Methanator Runaway	🕒 08:30 - 09:00 ★ Nitridation Damage Assessment Method of Refractory Alloys for Ammonia Cracking

Learn from a near-miss on Hydrogen 2: after a May 22, 2019 pit-stop restart, a methanator exotherm surged. Investigation traced it to CO₂



George Galloway
Lead Process Engineer – Hydrogen, [Chevron Products Company](#)

Protect your ammonia cracker from silent alloy attack. This presentation reveals new lab data on nitridation resistance of industrial heat-



Dr Dominique Flahaut
Group Technical Director, [Paralloy Group](#)

🕒 09:00 - 09:30

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Problems Encountered in the HTS Reactor When Revamping to Higher Rates

Koch Ft. Dodge operates a Kellogg ammonia plant in Ft. Dodge, Iowa that was originally designed for 650 TPD but has been optimized and



Jackson Lee
Process Engineer, [Koch Fertilizer](#)



Dean Potter
Mechanical Engineer CFD Optimization, [MKEC Engineering](#)



Karen Braden
Account Manager, [Clariant](#)

🕒 09:00 - 09:30

★

Boiler Repair & Replacement Strategies

Running KBR secondary reformer Waste Heat Boiler 101-C at >150% nameplate exposes legacy MWK bundle limits—plugging, bayonet



Amarnath Chanda Roy
Senior Technical Advisor, [KBR](#)



Shiliang Zhan
Chief Technical Advisor, [KBR](#)



Daragh Blennerhassett
Head of Fertilizer & Acid Solutions, [KBR](#)

🕒 09:30 - 10:00

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Improving Plant Optimization and Reliability Through Low Temperature Shift Mechanical and Catalyst Solutions

Chronic LTS pressure drop and premature catalyst failures were cutting ammonia output at Koch Fertilizer’s Enid, Oklahoma plant. This case



Mike Hubbell
Sales Manager – North America Syngas Catalysts, [Johnson Matthey](#)



Matt Rattan
Process Engineer, [Koch Fertilizer](#)

🕒 09:30 - 10:00

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Optimizing High-Temperature Performance of HPNb Alloy for Catalyst Tubes Through Selected Alloying Elements

Join this technical presentation on how microalloying reshapes HPNb catalyst-tube life at 900–1100 °C. See how carbide morphology and



Joao Guilherme Dessi
R&D Coordinator, [ENGEMASA](#)

10:00 | Networking Break

PROCESS

🕒 10:30 - 12:00

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TRAINING WORKSHOP

Optimizing Boiler System Performance through Effective Control & Monitoring

Master boiler reliability from the inside out in this hands-on workshop. We’ll map the three support systems—pretreatment,



Bill Eichholtz
Senior Industry Technical Consultant, [Nalco Water](#)

MECHANICAL/MAINTENANCE

🕒 10:30 - 12:00

★

TRAINING WORKSHOP

Centrifugal Pump Generic Failure Modes & Their Solutions

Stop pulling pumps out of service. This hands-on workshop demystifies centrifugal pump failure modes: suction recirculation, discharge



Mike Mancini
President, Hydro Total Solutions, [Hydro, Inc.](#)

12:00 | Networking Lunch

PROCESS

🕒 13:30 - 15:00

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TRAINING WORKSHOP

How to Safely Maximize Plant Production Capacity while Avoiding Unplanned Shutdowns

Unlock the full potential of your syngas and ammonia operations with next-generation catalyst technology. Clariant's Applied Catalyst



Justin Flexner
Head of ACT Americas, [Clariant](#)



Miguel Rodriguez
Senior ACT Engineer, [Clariant](#)



Yesibel Molina
ACT Engineer, [Clariant](#)

MECHANICAL/MAINTENANCE

🕒 13:30 - 15:00

★

TRAINING WORKSHOP

Metallurgical Failures

Surprises With New Pressure Equipment (Commissioning & In Service) -Beware of hydrostatic test waters; Watch austenitic stainless steel



Ana Benz
Chief Engineer, [Apave](#)



Kurtis Bell
Failure Analysis & Field Engineering Manager, [Apave America](#)

15:00 | Exhibition Networking

16:00 | Nitrogen+SyngasUSA TopGolf

18:30 – 22:30 | Bel-Air Room | Hospitality Suite | Topsoe

23 Apr 2026

07:30 | Breakfast Buffet / Registration Open

07:30 | Exhibition Open

PROCESS

08:30 - 09:00



Novel Revamp Increasing NH₃ Synthesis Capacity at Koch Ft Dodge Fertilizer Facility

Join this presentation and see how Koch Fertilizer’s Fort Dodge Kellogg plant was revamped to unlock new capacity through an Uhde–Johnson



Jackson Lee
Process Engineer, [Koch Fertilizer](#)



Carsten Schwiderek
Senior Technical Service Engineer, [Thyssenkrupp UHDE](#)



Mike Hubbell
Sales Manager – North America Syngas Catalysts, [Johnson Matthey](#)

MECHANICAL/MAINTENANCE

08:30 - 09:00



How to Get the Most Out of your HP Urea Equipment?

Learn how to extend the life of your high-pressure urea synthesis equipment. This technical presentation shares Stamicarbon’s corrosion-



Alex Scheerder
Principal Engineer, [Stamicarbon](#)

09:00 - 09:30



Preventing Pressure Drop Buildup in Ammonia HDS Reactors with Advanced Grading Systems

Discover how Koch Fertilizer’s Weaver, Iowa ammonia plant stopped runaway HDS pressure drop. Startup coking on the feed preheat coil



Brigit Balmer
Key Account Manager, [Topsoe, Inc.](#)



Brianna Fay
Process Engineer, [Koch Fertilizer Weaver](#)

09:00 - 09:30



Keeping Urea Plants Running: High-Pressure Equipment Solutions

Hear North America case studies on degradation mechanisms, material selection—stainless to super-duplex and noble alloys—and upgrades



Matteo Fumagalli
Urea Technology Manager, [Casale](#)

09:30 - 10:00



Boosting Ammonia Output: How a Next-Gen Converter Improved Koch Ammonia Plant

Koch Fertilizer, a long-established ammonia production facility, is a key supplier of nitrogen-based fertilizers. The plant always operated with a



Enrico Masciarelli
Senior Process Engineer, [Casale](#)



Divyaraj Mahida
Ammonia Process Engineer, [Koch Fertilizer Canada](#)

09:30 - 10:00



Modularization of Ammonia Urea Complexes for Safe and Cost-effective Execution

Modularization is redefining how mega ammonia–urea projects get built. In this technical presentation, Saipem shares lessons from the CERES



Andrea Zambianco
Low Carbon Solutions Product Development Manager, [Saipem SpA](#)

10:00 | Networking Break

PROCESS

10:30 - 11:00



Fired Heater Flooding: Combustion Expertise Critical for Safe and Reliable Operations

Fired heater flooding turns reformer fireboxes fuel-rich, destabilizing flames and storing unburned fuel that can detonate. This presentation



Jose Corcega
Product Integration Leader, [John Zink](#)



Bill Weimer
Senior Combustion and Operations Expert, [John Zink](#)

MECHANICAL/MAINTENANCE

10:30 - 11:00



Mitigating SCR Fouling in a Methanol Reformer: A Progressive Application Strategy at a Gulf Coast Methanol Plant

Chronic SCR fouling was derating a methanol reformer: rising ΔP, CO₂/O₂ slip, and NO_x exceedances. This technical presentation shares



Andrew Kline
Director of IGS Environmental, [Integrated Global Services \(IGS\)](#)

11:00 - 11:30



Achieving Syngas Process Excellence through AI-Powered Reformer and Catalyst Optimization

Move beyond static setpoints. This technical presentation shows how to unite hybrid first-principles + machine-learning models with AI-driven



Sebastian Eckstein
Product Manager, [Navigance](#)

11:00 - 11:30



New Methods for Faster, Quicker and Safer Ammonia Catalyst Loading and Activation

Cut turnaround time and reduce confined-space exposure in ammonia synthesis catalyst work. This technical presentation introduces



Trace Marshall
Account Manager – Chemicals & Clean Air – North America, [Topsoe](#)



Emir Zahirovic
Chief Technology Officer, [Catmasters, LLC](#)

🕒 11:30 - 12:00

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AI-driven Optimizing of Nitrogen-based Fertilizers and Other Syngas Derivatives

Discover how AI-driven Asset Performance Management (APM) and real-time process optimization can be integrated across ammonia, urea,



Jesper Naimi Funch Poulsen
Senior Sales Manager, [Baker Hughes](#)

🕒 11:30 - 12:00

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Enhancements to Risk-Based Engineering Assessments of Ammonia Storage Tanks with Fracture Mechanics

Ammonia storage tanks face a persistent threat: anhydrous-ammonia stress-corrosion cracking in carbon steel—often assessed with limited



Robert Branden Stucky
Vice President, [CorrSolutions](#)



Matthew Kaiser
Staff Engineer, [The Equity Engineering Group](#)

12:00 | Networking Lunch

PROCESS

🕒 13:30 - 15:00

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TRAINING WORKSHOP PROCESSES

Cooling Water System Challenges, Innovation Strategies & Failure Analysis

Master cooling-water reliability in ammonia and methanol plants in this interactive workshop. Sr Cooling Water Specialist Robin Wright explains



Mel Esmacher
Principal Senior Researcher, [Veolia](#)



Matt McEachran
Technical Consultant, [Veolia](#)

MECHANICAL/MAINTENANCE

🕒 13:30 - 14:15

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TRAINING WORKSHOP MECHANICAL/MAINTENANCE

Nickel Based Alloys for Nitridation, Sulfidation, Oxidation, and Creep Service in Extreme Environment Applications

Nickel-based superalloys are the workhorses behind high-temperature reliability—when carbon, nitrogen, sulfur, and halogens are trying to



Brett Tossey
Market Manager - Emerging Markets, [Haynes International, Inc.](#)

🕒 14:15 - 15:00

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TRAINING WORKSHOP MECHANICAL/MAINTENANCE

Brittle Fracture: Engineering Assessment; Toughness; API 579

Build faster, defensible brittle fracture protection into your site integrity program. This intermediate workshop demystifies ASME/API screening methods that let teams rapidly assess most equipment and piping, then shows what to check—materials, design details,



Scott Bouse
Senior Associate, [Wiss, Janney, Elstner Associates, Inc.](#)



Bernard Schulze
Principal and Unit Manager, [Wiss, Janney, Elstner Associates, Inc.](#)

15:00 | End of Conference