

Programme

Monday, 21 February

Registration 15:00 - 20:00
Sponsored by Global Toyo
Exhibition 15:00 - 20:00
Welcome Reception 18:30 - 20:00
sponsored by Schmidt+Clemens Group

Tuesday, 22 February

Registration	08:30 – 18:15
Sponsored by Global Toyo	
Exhibition	08:30 - 18:15
Session 1	09:00 - 11:05
Session 2	11:40 – 13:15
Lunch	13:15 – 14:35
sponsored by Johnson Matthey and Uhde	
Session 3	14:35 – 17:15
Drink Reception	17:15 – 18:15
Co-sponsored by Quest & SBN	

Wednesday, 23 February

Registration Sponsored by Global Toyo	08:30 – 17:00
Exhibition	08:30 – 17:00
STREAM A	
Session 4	09:00 – 12:05
Lunch	12:05 – 14:00
Sponsored by Casale and Süd-Chemie	
Session 6	14:00 – 17:25
STREAM B	
Session 5	09:00 – 12:05
Lunch Sponsored by Casale and Süd-Chemie	12:05 – 13:35
Session 7	13:30 – 14:50

Thursday, 24 February

Registration	08:30 - 15:35
Sponsored by Global Toyo	
Exhibition	08:30 - 15:35
Session 8	09:30 - 12:15
Lunch	12:15 - 13:35
Session 9	13:35 – 15:35

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Johnson Matthey Catalysts



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Official Publications





Monday 21 February

15:00 - 20.00 Exhibition Opens

15:00 - 20.00 Registration sponsored by



18:30 - 20:00 Welcome Reception sponsored by



Tuesday 22 February

09:00 Welcome

A. Prince, Research Manager-Fertilizer Team, CRU Analysis, United Kingdom

Session 1: Market influences

SESSION CHAIRMAN

09:05 Natural Gas Outlook
M. Fulwood, (Nexant Ltd)

09:35 Nitrogen Overview

A. Prince, Research Manager-Fertilizer Team, CRU Analysis, United Kingdom

10:05 Global Methanol Market outlook

J.Jordan, President (Jim Jordan & Associates)

10:35 Indian Fertilizer Industry: Where are we? Where are we going to?"

Dr MP Sukumaran Nair, Special Secretary to Chief Minister (Government of Kerala, India)

11:05 Refreshment and Networking Break sponsored by



Session 2: Methanol technology – Ready for the 10,000-t/d plant

11:40 Methanol technology – The bespoke approach Leigh Taylor (Johnson Matthey Catalysts)

12:00 Realizing the 10,000-t/d single-stream methanol plant (provisional title)

P. di Zanno, Director Chemical (Lurgi GmbH)

12:20 The global methanol market in transition – Challenges in catalyst technology

N. Ringer Group Product Manager Methanol (Süd-Chemie AG)

12:40 MK 151 Fence – A new catalyst for more cost-effective methanol plants

K. Svennerberg, *Product Manager, Methanol and DME catalysts and* Carsten Sejrbo Nielsen, *Sales Manager, Ammonia and Petrochemical Technology Sales,* (Haldor Topsøe A/S)

13:00 Questions & Answers

Tuesday 22 February

13:15 Lunch sponsored by





Session 3: Ammonia operations and technology

14:35	J. Camps, General Manager - Synthesis Gas (Jacobs Engineering Consultants)
14:55	tbc tbc

- 15:15 Qafco's experience in the application of DeNOx technologies on combustion gases U. Desai, *Plant Engineer (Ammonia 3)* (Qatar Fertilizer Co.)
- 15:35 Questions & Answers
- 15:50 Refreshment and Networking Break sponsored by



- 16:20 Low-energy consumption ammonia production Baseline energy consumption; options for energy optimization
 - K. Noelker, Head of Process Department (Uhde GmbH)
- 16:40 Casale coal-based ammonia and methanol synthesis loops
 - P. Moreo, Syngas Process Group Leader (Ammonia Casale SA)
- 17:00 Question and Answer
- 17:15 Drink Reception sponsored by





Wednesday 23 February -Stream A

Session 4: Ammonia revamps and catalysts

- 09:05 KRES-ES™ revamp makes more ammonia from less natural gas by energy substitution S. Singh Senior Process Manager, Ammonia & Syngas Technology (KBR, Inc.)
- 09:25 Rejuvenating a 27-year-old ammonia plant
 - S. Iftikhar Ahmad Kirmani, DM-Engineering (Process), (Fauji Fertilizer Co.)
- **O9:45** Revamp of JSC Cherkassy Azot's ammonia plant for energy savings and capacity increase P. Han, *Technology Supervisor* (Haldor Topsøe A/S); V. Sklyarov (JSC Cherkassy Azot)
- 10:05 Question and Answer
- 10:20 Refreshment and Networking Break



Wednesday 23 February –Stream A

10:50	The science of catalysis: The chemistry within your catalysts P. Broadhurst <i>Technical Manager - Syngas Products</i> (Johnson Matthey Catalysts)
11:10	Safe operation of HT shift catalyst – Best practices in case of WHB leaks and catastrophic failures T. Archer, <i>Director - Sales and Marketing</i> (Süd-Chemie, Inc.)
11:30	Current trends in ammonia synthesis catalysts Y. Kamal, Key Account Manager - Middle East & Africa (Johnson Matthey Catalysts) and M. Abdel Aaty (MOPCO)
11:50	Question and Answer
12:05	LUNCH sponsored by SÜD-CHEMIE CREATING PERFORMANCE TECHNOLOGY THE INNOVATIVE TOUCH CREATING PERFORMANCE TECHNOLOGY
	Session 6: Nitric acid and nitrates
14:05	Abatement of N2O from nitric acid plants in the context of emissions trading – A continuing concern for the fertilizer industry M. von Welsen-Zerweck, <i>Managing Director</i> (N-Serve Environmental Services GmbH)
14:25	The development and applications of tertiary alloys for ammonia oxidation C Brown, <i>Product Specialist</i> (Johnson Matthey Noble Metals)
14:45	Heraeus experience and developments for N2O emission reduction T. Keller, Senior Manager Application Technology, Nitro Technologies (W. C. Heraeus GmbH)
15.05	Question and Answers
15:25	Refreshment and Networking Break
	Stamicarbon pure knowledge
15:50	MKSprecise: A singular catalyst solution and the cost drivers behind it K. Burchard, <i>Group Account Manager, Performance Catalysts</i> (Umicore)
16:10	Development of integrated ammonium nitrate complexes K. Ruthardt, <i>Head of Process Department</i> (Uhde GmbH)
16:30	Prozap's experience in N2O/NOx control and a re-invented nitrogen fertilizer: liquid calcium nitrate M. Skorupka, <i>President & CEO</i> (PROZAP Engineering Ltd)
16:50	Start-up of the world's biggest UAN plant R. Schallert, Head of Process Group Nitric Acid (Uhde GmbH)
17:10 17:30	Question and Answers End of session

Wednesday 23 February – Stream B

09:00 Session 5: Nitrogen fertilizer finishing procedures

09:05	Jumbo single-line urea granulation plants – Ready for implementation
	M. Potthoff, <i>Director Licensing and Sales</i> (Uhde Fertilizer Technology bv)

- **09:25** Rotoform pastillation in the fertilizer finishing process
 K. Swamy, *Global Product Manager, Fertilizers* (Sandvik Process Systems)
- **O9:45** Technical upgrading of a low-rise prilling tower. Case study of JSC Salavatnefteorgsintez

 N. Cheblakov, *Senior Research Engineer* (NIIK Urea Research and Design Institute)
- 10:05 Question and Answers
- 10:20 Refreshment and Networking Break



10:50 Benefits of the new Coperion Bulk-X-Change® for cooling fertilizers

H. Nigsch, Sales Manager Thermal Processes (Coperion GmbH)

11:10 The influence of screening processes in fertilizer production

O. Pickard (Rhewum GmbH)

11:30 Vortex granulation: the new route to high-quality solid nitrogen fertilizers

F. Zardi (Urea Casale SA)

- 11:50 Questions and Answers
- 12:05 LUNCH sponsored by





13:00 Session 7: Urea operations and technology - I

- 13:35 Saipem's breakthrough in large-scale ammonia-urea plants A. Gianazza (Saipem)
- 13:55 Sirius@Max: A new approach for urea plant optimization using advanced process control L. Dieltjens (Stamicarbon); C Moons (IPCOS)
- 14:15 Toyo's approach to environmental protection in urea plants

G. Nishikawa (Toyo Engineering Corporation)

- 14:35 Questions and Answers
- 14:50 End of session

Thursday 24 February

09:00	Session 8: Synthesis gas generation and other products
09:35	Nano-technology for substantial material improvement: Centralloy® G 4582 Micro R for steam reformers
	D. Jakobi, Head of Corporate Research & Development Services (Schmidt + Clemens)
09:55	Enhanced steam reformer tube inspection and remaining life assessment methodologies R. Roberts, <i>V.P. & General Manager</i> (Quest Integrity Group)
10:15	Improving metal dusting resistance in the synthesis gas environment with the new Sumitomo 696 Nibased alloy S. Kurihara (Sumitomo Metal Industry Ltd)
10:35	Question and Answers
10:50	Refreshment and Networking Break
	Stamicarbon pure knowledge
11:20	Improved efficiency for hydrogen plants T. von Trotha (Uhde GmbH)
11:40	Accurately monitoring the temperature of catalyst beds with CatTracker® E. Heidt (Daily Thermetrics)
12:00	Question and Answers
12:10	Lunch
13:30	Session 9: Urea operations and technology (2)
13:35	Economics of third-generation alloy protection J. Visser (Stamicarbon)
13:55	Revamping of a total recycle urea solution plant to increase capacity and energy-efficiency P. Orphanides (Orphanco)
14:15	An improved technique for lining high-pressure urea strippers with reactive metals P. Mantovani (Officine Luigi Resta SpA)
14:35	Urea and nitric acid plants: Improving shut-down, revamping, debottlenecking and refurbishment J-M Sluyters (Gemaco)
14:55	Using DP28™ to reduce passivation in urea plants M. Takahashi (Toyo Engineering Corporation)
15:15	Question and Answers
15:35	Closing remarks