Nitrogen + Syngas 2020

Maximising efficiency through innovation and knowledge sharing

“The 2019 conference was excellent, and all the subjects discussed and presented were required for these day’s challenges.”
Abdalmunem Alnajjar,
Process Plant Superintendent, GPIC

“The most important annual European event in N2 & syngas.”
Esben Sorensen,
Technical Sales Director, Haldor Topsoe

2019 event attendance: 750+ professionals representing 270+ companies and 50+ countries
50+ technical papers and presentations
11+ hours of technical content
90+ world-class exhibitors

Operators – Pay just €700 (+VAT)

For more information, or to book your place, visit: www.nitrogensyngas.com

Sponsors:

Supporters:

Official Publications:

#CRUnitrogen
CRU’s Nitrogen + Syngas has a 33-year proven track record of bringing together senior technical professionals to share experience and develop best practice. The respected three-day agenda incorporates essential insights into big picture market forces from industry experts including CRU’s nitrogen analysts, with a comprehensive dual-streamed agenda, featuring 40+ high-level technical papers focused on the latest technology, process and equipment innovations, and operational best practice.

The content is guided by a technical steering committee of experts representing producers, licensors, and independent consultants, ensuring a high-quality platform for professional development and peer-to-peer learning.

Along with the exhibition of world-class solution providers and technical experts, and CRU’s industry-leading analysis, Nitrogen + Syngas really is your one-stop-shop for networking and professional development.

87% of delegates would recommend the event to a colleague
86% of delegates are very or extremely likely to attend again
11+ hours technical content
Networking: Ample time is factored into the three-day agenda to meet with peers and new contacts, to share experience, source solutions, and do business

Get the CRU view on the global nitrogen market and energy markets
Operators pay just €700 (+VAT)

Peer-led case studies

For more information, or to book your place, visit: www.nitrogensyngas.com
Gala Evening

Hosted by

Tuesday 18 February, 19:30

Sandvik and Stamicarbon will host a unique evening of entertainment at Nitrogen + Syngas 2020, celebrating their 29 years of collaboration on Safurex, the industry standard when it comes to duplex materials, ensuring safe and reliable urea operations worldwide.

The evening will be a great opportunity for you to mix and mingle in a relaxed, informal atmosphere, with great food and drink, while enjoying live music from international band Agogo who will entertain you with well-known songs.

The Gala Evening will take place in the Atlantic Room at World Forum, The Hague.

Looking forward to seeing you there!

For more information, or to book your place, visit: www.nitrogen-syngas.com
### Testimonials

**“Excellent conference, very well organised with key and relevant technical and commercial presentations on the present state of the fertilizer industry and outlook as well as modern innovation technologies by the industry experts. Great forum for networking and enhancing your professional development in this dynamic industry.”**

Nirvaan Soogrim, Senior Chemical Engineer, PCS Nitrogen Trinidad Ltd.

**“A must to be attended event for Syngas and Nitrogen producers!”**

Miroslav Dimitrov, Production & Maintenance Manager, Neochim PLC

**“A place for professional networking and idea generation.”**

Michel Warzee, Technical Process Owner Ammonia, YARA

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### Participants by company activity

<table>
<thead>
<tr>
<th>Activity</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Producer: Fertilizer/Feed/Industrial</td>
<td>24%</td>
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<tr>
<td>Engineering/Processing/Technology Providers</td>
<td>37%</td>
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<tr>
<td>Plant Machinery/ Materials and Equipment</td>
<td>35%</td>
</tr>
<tr>
<td>Other</td>
<td>4%</td>
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### Monday 17 February

#### Technical Showcase

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00</td>
<td>Hydrodynamic cleaning and turbulent oil flushing of oil systems of turbo-compressors</td>
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<tr>
<td>10:15</td>
<td>Robotic convection bank cleaning</td>
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<tr>
<td>Tube Tech International</td>
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<tr>
<td>10:30</td>
<td>Alternative design approach by finite element analysis for high-pressure equipment</td>
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<td>Belleli Energy CPE</td>
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<td>10:45</td>
<td>Fast gas turbine feed analysis: BTU, Wobbe and complete composition</td>
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<tr>
<td>SpectraSensors, Inc.</td>
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<tr>
<td>11:00</td>
<td>Technical analysis about weld ring gasket leakage in syngas reactor</td>
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<tr>
<td>SPETECH</td>
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<tr>
<td>11:15</td>
<td>A new syngas boiler with bypass</td>
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<tr>
<td>Alfa Laval Olmi SpA</td>
<td></td>
</tr>
<tr>
<td>11:30</td>
<td>Case study on waste heat boiler package arrangement and its impact on reliable operation</td>
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<tr>
<td>ARVOS GmbH / SCHMIDTSCHE SCHACK</td>
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<tr>
<td>11:45</td>
<td>Application of CFD for optimisation of waste heat boilers</td>
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<tr>
<td>Steinmueller Engineering GmbH</td>
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</tbody>
</table>

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For more information, or to book your place, visit: [www.nitrogensyngas.com](http://www.nitrogensyngas.com)
Monday 17 February (continued)

**REFORMING**

12:00  Digital twin model of primary reformer in syngas production  
Siemens

12:15  ZoneFlow™ structured catalyst technology: Gearing for the future in steam reforming  
ZoneFlow

12:30  Achieving performance excellence in steam methane reformers  
ITT SpA

12:45  Energy efficiency improvement of steam methane reforming with high emissivity refractory coating  
Integrated Global Services

13:00  Networking Lunch

**Keynote Plenary Session**

**EXPLORING THE ROLE OF NITROGEN AND SYNGAS PRODUCERS IN THE CIRCULAR ECONOMY**

14:00  Global nitrogen market outlook  
Laura Cross, Head of Nitrogen, CRU

14:30  Global energy market outlook  
Keshni Sritharan, Senior Analyst, Nitrogen, CRU

15:00  New application for ammonia: From fertilizer to fuel  
Venkat Pattabathula, Global Ammonia Technology Manager, Incitec Pivot  
Pinakin Patel, President, T2M Global

15:30  Coffee Break sponsored by

16:15  A serious response to a serious threat – Low Carbon Hydrogen (LCH stepchange reduction in CO₂ intensity of H₂ production)  
Bill Cotton, Principal Engineer, Johnson Matthey

16:45  Is your plant fit for the future?  
Stephan Buss, Senior Sales Manager, Ammonia/Urea, thyssenkrupp Industrial Solutions

17:15  Stamicarbon’s sustainable production of nitrates from renewable energy  
Joey Dobree, Product Portfolio Manager, Stamicarbon

17:45  Close of day one

17:45  Welcome Reception sponsored by Haldor Topsoe
Tuesday 18 February

Stream A: Ammonia, Methanol and Syngas

**NEW DEVELOPMENTS IN STEAM REFORMING**

09:00 Novel carrier catalyzes optimal performance within steam reforming
   *Fernando Morales Cano, R&D Manager, Haldor Topsoe*

09:30 Reforming catalyst developments
   *Matthew Wilson, Global Commercial Lead- Catacel SSR, Johnson Matthey*

10:00 Lowering CO₂ emissions – enhanced annular reforming tube for hydrogen (EARTH®)
   *Stefan Gebert, Global Product Manager, Clariant*
   *Stephane Walspurger, Product Development Engineer, TechnipFMC*

10:30 Q&A

10:45 Coffee Break sponsored by

**AMMONIA PLANT CAPACITY INCREASES**

11:30 The evolution of the ammonia synthesis catalyst - “AmoMax-CASALE”
   *Christian Berchthold, Global Marketing Manager Syngas, Clariant*
   *Sergio Panza, Technology Manager (Ammonia), Casale*

12:00 Making the world's largest ammonia plant even larger
   *Dr Bernard Mielke, thyssenrupp Industrial Solutions*

12:30 Q&A

12:45 Lunch

**IMPROVING SAFETY AND EFFICIENCY IN AMMONIA PLANTS**

14:00 INEOS Manufacturing Deutschland GmbH: Higher ammonia plant safety, reliability and efficiency through synthesis converter replacement
   *Dr Francesco Baratto, Head of Process Division, Casale*
   *Dr Daniel Stoltenberg, Plant Manager, INEOS*

14:30 Safe solution for prereduced ammonia synthesis catalyst replacement
   *Carlos Axel Dias-Tovar, Haldor Topsoe*

14:45 Q&A

15:00 Coffee Break sponsored by

**REFORMER OPTIMISATION**

15:45 Skip the slip: Primary reformer combustion optimisation using innovative digital tools and techniques
   *Dr Hadji Ali Gueniche, Business Development Director EMEA, Smart Combustion, John Zink Hamworthy Combustion*

16:15 Installation of a new flue gas tunnel design concept and resulting operation
   *Daniel Barnett, Vice President of Engineering, BD Energy Systems*
   *Jeffrey Bolebrusch, VP of Sales, Blasch Precision Ceramics*

16:45 Experiences from implementing Topsoe’s Heat Exchange Reformer (HTER) in ammonia production plants
   *Søren Gyde Thomsen, Senior Technical Expert, Fellow, Haldor Topsoe*

17:15 Q&A

17:30 Close of day two

19:30 Gala Evening hosted by

For more information, or to book your place, visit: [www.nitrogensyngas.com](http://www.nitrogensyngas.com)
Wednesday 19 February

**Stream A: Ammonia, Methanol and Syngas**

**CO₂ REMOVAL**

08:00 Engro’s operational experience of multiple CO₂ capturing units: Lessons learned
Qazi Wasif Ud Din, Operations Engineer; Asim Shahbaz, Manager Ammonia-3 Operations, Engro Fertilizers

09:00 Evolution of CO₂ recovery plant for the improvement of ammonia and urea production
Tsukasa Otani, Deputy Manager, Mitsubishi Heavy Industries Engineering, Ltd.
Svend Erik Nielsen, Fellow, Senior Proposal Manager, Haldor Topsoe

11:30 Impact of convection coils performance on ammonia plants energy consumption
Ahmed Soliman, Technical Advisor, Ammonia & Syngas, MOPCO

12:00 Successful commissioning of KBR’s lowest energy ammonia plant at CFCL, India
Sachin Agarwal, Technical Advisor, Ammonia & Syngas, KBR
Narinder Goyal; Unpendra Singh, CFCL

**ENERGY EFFICIENCY**

09:30 Trending tragedy: Why amine systems fail
Philip le Grange, Senior Engineer, Amine Experts

10:00 Q&A

10:45 Coffee Break sponsored by

11:30 CASE STUDIES: COMMISSIONING AND START-UP

**Eurochem ammonia plant – The largest single train production in Europe**
14:00 Alexander Ivanov, Chief Technical Leader, KBR
Ilya Beloborodov, Northwest Director, Eurochem Group AG

14:30 Successful commissioning and operation experience of Africa’s largest single stream ammonia and urea plant in Nigeria
Swapan Kumar Das, Technical Services Dept., Indorama Eleme Fertilizers and Chemicals
Prasanth Kumar, Technical Director, Clariant

14:45 Q&A

15:00 Lunch

15:45 Controlling materials and corrosion failures through best practice information management systems
Robert Dudley, Materials Engineer, Quest Integrity Group

16:15 Implementation of a fibre optic leak detection system
Regis Blin, Sales Engineer, SMARTEC SA

16:45 Backfire in balance draft furnace
Sannen Aleem, Executive - Engineering (Projects), Engro Fertilizers

17:15 Q&A

17:30 Close of conference

For more information, or to book your place, visit: www.nitrogenesyngas.com

#CRUnitrogen
Tuesday 18 February

Stream B: Urea, Nitrates and Finished Fertilizers

**UREA PRODUCTION OPTIMISATION**

*09:00*  
Evolve Optimizer  
*John Oostveen, Sales & Solutions Manager, Stamicarbon*

*09:30*  
Optimisation of a urea high pressure section with N/C soft-sensing  
*Volker Siepmann, Principal Engineer; Maxime Loviat, Technology Specialist, Yara*

*10:00*  
Strategic material selection and proactive corrosion prevention in urea plants  
*Anton Sri Widodo, Assistant Superintendent, PT Pupuk Kalimantan Timur*

*10:30*  
Q&A

*10:45*  
Coffee Break

**UREA PROJECT CASE STUDIES: COMMISSIONING AND NEW TECHNOLOGY INTEGRATION**

*11:30*  
Case study: The successful installation of an enhanced efficiency fertilizer at a world scale urea production facility  
*Dan Kuttenkuler, N-Tegration Licensing Engineer; Chris Muehling, Director, Global Innovation Technologies, thyssenkrupp Fertilizer Technology*

*12:00*  
Successful commissioning and start-up of TOYO’s urea plant  
*Shohei Baba, Process Engineer, Toyo Engineering Corporation*  
*Ahmad Dzakil Fikiri, PT Petrokimia Gresik*

*12:30*  
Q&A

*12:45*  
Lunch

**UREA CASE STUDIES: INCREASING PRODUCTION CAPACITY UTILISING NEW TECHNOLOGY**

*14:00*  
Pushing the limits – Advanced urea spray nozzles for the UFT® Fluid Bed Granulation process  
*Thomas Krawczyk, Senior Process Engineer, thyssenkrupp Fertilizer Technology*  
*Abdulmunem Alhujjar, Process Plant Superintendent, Gulf Petrochemical Industries Co. (GPIC)*

*14:30*  
Stepwise capacity increase at ACRON (Russia) urea plant with the use of modern technologies by NIIK  
*Rinat Anderzhanov, Head of Process Department, NIIK (R&D Institute of Urea)*

*14:45*  
Q&A

*15:00*  
Coffee Break

**NITRIC ACID**

*15:45*  
Root Cause Analysis (RCA) to identify problems in nitric acid production  
*Julie Ashcroft, Product Specialist, Johnson Matthey*

*16:15*  
Development of new catalytic gauze designs for the nitric acid industry  
*Oliver Henkes, Senior Technical Service Manager, Heraeus Deutschland GmbH & Co. KG*

*16:45*  
New nitric acid plant in Uzbekistan: A review of NAVOYAZOT project  
*Iacopo Cerea, Process Manager, Nitrates & Phosphates Dept, Casale*

*17:15*  
Q&A

*17:30*  
Close of day two

*19:30*  
Gala Evening

For more information, or to book your place, visit: [www.nitrogensyngas.com](http://www.nitrogensyngas.com)
Wednesday 19 February

Stream B: Urea, Nitrates and Finished Fertilizers

**CASE STUDIES: UREA OPERATIONS**

**09:00**
Energy efficiency and reduction of CO₂ emissions
Irfan Ullah Khan; Muhammad Aslam, Fauji Fertilizer Company

**09:30**
Poor performance of HP stripper in urea plant
Mohamed Kamal Mohamed Ibrahim, Urea Plant Manager, Abu Qir Fertilizer Company

**10:00**
Long-term preservation of urea plant
Muhammad Umar Munir, Process Engineer Urea & Utilities-E, Pakarab Fertilizers Ltd

**10:30**
Q&A

**10:45** Coffee Break

**AMMONIUM NITRATE**

**11:30**
Wet Electrostatic Precipitator (WESP) dedusting for AN/CAN based fertilizer plant
Alessandro Gullà, Sales Manager, A.W.S. Corporation

**12:00**
Implementation for construction of ammonium nitrate granulation plant and 2nd stage evaporation of ammonium nitrate at PJSC KuibshevAzot site
Dmitry Bereslavsky, Director EPC Division, GIAP

**12:30**
Q&A

**12:45** Lunch

**MELAMINE**

**14:00**
First Casale LEM™ melamine plant in operation
Gabriele Di Carlo, Urea Process Manager, Casale SA

**14:30**
Widening the concept of finishing in the fertilizers sector
Giuseppe Di Ruocco, Technical Director, Eurotecnica Contractors & Engineers SpA

**14:45**
Q&A

**15:00** Coffee Break

**UREA PLANT MATERIALS AND EQUIPMENT: DEVELOPMENTS AND CASE STUDIES**

**15:45**
Stamicarbon's high performance materials applied to urea synthesis equipment
Oldrich Mikus, Sales & Solutions Manager, Stamicarbon

**16:15**
Modernisation of the CO₂ centrifugal compressor in urea production
Aleksandr Liubimov, Chief Technical Officer, Entechmach

**16:45**
Analysis and modification of existing foundation during replacement of critical equipment
Syed Kazmi, Executive - Engineering (Projects), Fauji Fertilizer Company

**17:15**
Q&A

**17:30** Close of conference

For more information, or to book your place, visit: www.nitrogensyngas.com

#CRUnitrogen
Address your technical questions with technical experts

The conference runs alongside an exhibition of 90+ world-class process, materials, equipment and technology solution providers. They bring invaluable expertise and can help with a wide range of technical services, from efficiency improvements and revamps, through to increased reliability and equipment modernisation.

Key Networking Functions:

- Registration sponsored by TOYO ONGYO
- Coffee stations sponsored by HALDOR TOPSOE
- Welcome reception sponsored by SANDVIK
- Gala Evening sponsored by

For more information, or to book your place, visit: www.nitrogensyngas.com

To discuss how you can make an impact via sponsoring or exhibiting at Nitrogen + Syngas, please contact Michelle Fisk:
T: +44 (0) 20 7903 2159
E: michelle.fisk@crugroup.com

“Nitrogen + Syngas is one of the most important conferences in our business.”
Keigo Sasaki, Process Engineer, Toyo Engineering Corporation
### Industries served:
- Ammonia
- Hydrogen
- Urea
- Syngas
- GTL
- Melamine
- Methanol
- Olefins
- Nitrites

### Products and services:
- Bulk materials handling technologies
- Emissions management technologies
- HP machinery and equipment
- ECO2 removal technologies
- Steam reforming technologies
- Mist eliminators
- Granulation, prilling & finishing technologies
- Water treatment technologies
- Burners, furnaces and combustion equipment
- Filtration/separation technologies
- Flow meters
- Asset integrity and inspective services
- Catalyst loading
- Catalyst reprocessing
- Plant engineering, procurement and construction
- Process design and technologies
- Revamping services
- Fertilizer packing, packaging and bagging
- Bulk materials handling technologies
- CO2 removal technologies
- Granulation, prilling & finishing technologies
- Water treatment technologies
- Burners, furnaces and combustion equipment
- Filtration/separation technologies
- Emissions management technologies
- Steam reforming technologies
- Syngas purification technologies
- Water treatment technologies
- Burners, furnaces and combustion equipment
- Filtration/separation technologies

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**Meet the Nitrogen + Syngas 2020 exhibitors**

<table>
<thead>
<tr>
<th>Stand</th>
<th>Company</th>
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</tr>
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<tbody>
<tr>
<td>13</td>
<td>Air Products</td>
<td>65</td>
<td>Johnson Matthey</td>
</tr>
<tr>
<td>6</td>
<td>Alfa Laval Olmi Spa</td>
<td>33</td>
<td>KBR Technology</td>
</tr>
<tr>
<td>42</td>
<td>Alvigo</td>
<td>71</td>
<td>Kelvon</td>
</tr>
<tr>
<td>87</td>
<td>AMETEK Land</td>
<td>18</td>
<td>Key-Tech Engineering</td>
</tr>
<tr>
<td>7</td>
<td>AUMUND Fördertechnik/Germany</td>
<td>9</td>
<td>Kinme</td>
</tr>
<tr>
<td>27</td>
<td>AVEVA</td>
<td>30</td>
<td>Kinetics Process Improvements, Inc</td>
</tr>
<tr>
<td>81</td>
<td>AWS Corporation</td>
<td>48</td>
<td>Koch Agronomic Services</td>
</tr>
<tr>
<td>29</td>
<td>BCInsight Ltd</td>
<td>48</td>
<td>Koch Giltsch</td>
</tr>
<tr>
<td>52</td>
<td>BD Energy Systems/ Blasch Precision Ceramics</td>
<td>32</td>
<td>Krastsvetmet</td>
</tr>
<tr>
<td>23</td>
<td>Begg Cousland Envirotec</td>
<td>2</td>
<td>LESER</td>
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<td>12</td>
<td>Belli Energy CPE / Walter Tosto</td>
<td>16</td>
<td>Linde Engineering, Linde Aktiengesellschaft</td>
</tr>
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<td>53</td>
<td>BERTSCH Energy</td>
<td>44</td>
<td>LLC «NIAP-KATALIZATOR»</td>
</tr>
<tr>
<td>36</td>
<td>BHDT GmbH</td>
<td>73</td>
<td>LTS energy</td>
</tr>
<tr>
<td>45</td>
<td>Boldrocchi</td>
<td>59</td>
<td>Magnetische Prüfanlagen GmbH</td>
</tr>
<tr>
<td>8</td>
<td>Boreal Europe Bv</td>
<td>78</td>
<td>Mannesmann Stainless Tubes GmbH</td>
</tr>
<tr>
<td>68</td>
<td>BORSIG Process Heat Exchanger GmbH</td>
<td>37</td>
<td>Manoir Industries</td>
</tr>
<tr>
<td>47</td>
<td>Butter</td>
<td>31</td>
<td>Mitsubishi Heavy Industries Engineering, Ltd.</td>
</tr>
<tr>
<td>60</td>
<td>Casale</td>
<td>56</td>
<td>Mosman Bulk Solid Heat Exchanging</td>
</tr>
<tr>
<td>35</td>
<td>CellMark Chemicals</td>
<td>88</td>
<td>Nickelhütte Aue GmbH</td>
</tr>
<tr>
<td>11</td>
<td>Christy Catalytics</td>
<td>24</td>
<td>NIiK (Russia)</td>
</tr>
<tr>
<td>61</td>
<td>Clariant</td>
<td>25</td>
<td>NIiK (Russia)</td>
</tr>
<tr>
<td>82</td>
<td>Cronite Group - Cronite Castings: Ltd &amp; Kartik Steels Ltd</td>
<td>54</td>
<td>Officine Luigi Resta SpA</td>
</tr>
<tr>
<td>19</td>
<td>Entechmach RPC LLC</td>
<td>84</td>
<td>Onis Line Blind</td>
</tr>
<tr>
<td>58</td>
<td>Eurotecna</td>
<td>17</td>
<td>PARALLOY</td>
</tr>
<tr>
<td>70</td>
<td>FIC SPA - Bulk Solid Heat Exchangers</td>
<td>17</td>
<td>ParFab Companies</td>
</tr>
<tr>
<td>52</td>
<td>Flexatallic</td>
<td>93</td>
<td>Piller Blowers &amp; Compressors</td>
</tr>
<tr>
<td>76</td>
<td>GEMACO PIPING SA</td>
<td>3</td>
<td>Poittemill</td>
</tr>
<tr>
<td>34</td>
<td>Giammarco-Vetrocote</td>
<td>20</td>
<td>Project Materials Energy Services GmbH</td>
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<tr>
<td>46</td>
<td>Greens Combustion</td>
<td>57</td>
<td>Protamation bv</td>
</tr>
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<td>28</td>
<td>Haldor Topsoe A/S</td>
<td>78</td>
<td>Raccortubi Group</td>
</tr>
<tr>
<td>5</td>
<td>Haver &amp; Boecker OHG</td>
<td>93</td>
<td>Raschig GmbH</td>
</tr>
<tr>
<td>74</td>
<td>Heraeus</td>
<td>14</td>
<td>Reformer Services</td>
</tr>
<tr>
<td>55</td>
<td>Heurtey Petrochem Solutions</td>
<td>41</td>
<td>Bauermeister Zerkleinerungstechnik GmbH</td>
</tr>
<tr>
<td>96</td>
<td>IWF Group</td>
<td>80</td>
<td>Umicore AG &amp; Co. KG</td>
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<tr>
<td>48</td>
<td>John Zink Hamworthy Combustion</td>
<td>15</td>
<td>Rotex</td>
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For more information or to discover how the exhibitors can assist you, visit the floorplan page of the website. There you can search by industries served, as well as by products and services, to identify who to visit.
Yes! Book my place at CRU’s Nitrogen + Syngas Conference 2020

Delegate Fees

<table>
<thead>
<tr>
<th></th>
<th>Price</th>
<th>Local VAT (21%)</th>
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<td>Until 13 December 2019</td>
<td>€1,675</td>
<td>€351.75</td>
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<td>14 December 2019 to 17 January 2020</td>
<td>€1,725</td>
<td>€362.25</td>
<td>€2,087.25</td>
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<td>From 18 January 2020</td>
<td>€1,775</td>
<td>€372.25</td>
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Operators pay just €700 (+VAT)!

“A truly professional conference to learn technical aspects through interaction with the production specialist, equipment/service suppliers, and industry experts. A good opportunity for professional networking and offers an understanding for market movers.”

Girish Patel, Director Technology - Ammonia & Syngas, KBR

3 easy ways to register

Online at: [www.nitrogensyngas.com](http://www.nitrogensyngas.com)

Email: conferences@crugroup.com

Call: +44 (0) 20 7903 2444

For more information, or to book your place, visit: [www.nitrogensyngas.com](http://www.nitrogensyngas.com)