

# Nitrogen Fertilizer Production Technology Workshop

Organized by International Fertilizer Development Center (IFDC)  
On Behalf of International Fertilizer Industry Association (IFA)

June 22-26, 2015  
Vienna, Austria

## Program Schedule

Sunday, June 21

<u>Day/Hour</u>	<u>Activity</u>	<u>Responsibility</u>
1700-1800	Early Registration	J. Ramón Lazo de la Vega Luisa De Faría IFDC

Monday, June 22

<b>Day/Hour</b>	<b>Activity</b>	<b>Responsibility</b>
0800	Registration (for those that did not register earlier)	IFDC
0830	Welcoming Remarks	J. Ramón Lazo de la Vega IFDC
0840	Welcoming Remarks	Volker Andresen IFA
0850	Program Overview and Logistics	Luisa De Faría IFDC
0900	Pre-Workshop Assessment	Luisa De Faría
0930	Fertilizer and Diversified Demand for Agricultural Products	J. Ramón Lazo de la Vega IFDC
1015	Coffee Break	
1045	Product Stewardship – A New Global Sustainability Initiative for Fertilizers	Volker Andresen IFA
1115	Product Security	Volker Andresen IFA
1145	Group Photograph	IFDC
1200	Lunch	
1300	Indirect Heat Exchanger Technology for Cooling Fertilizers – Case Study	Sascha Renye/Walter Türk Solex Thermal Science, Inc.
1415	Large-Scale Ammonia Production Technology	Reinhard Heun ThyssenKrupp Industrial Solutions GmbH
1500	Coffee Break	
1530	Strategies for Optimizing an Existing Ammonia Plant	Reinhard Heun ThyssenKrupp Industrial Solutions GmbH
1615	Logistics for Plant Visit	IFDC
1630	Daily Feedback	IFDC
1635	Adjourn	
1800	Reception – Group Dinner	

**Tuesday, June 23**

<b>Day/Hour</b>	<b>Activity</b>	<b>Responsibility</b>
<b>0730</b>	<b>Travel to Borealis Agrolinz GmbH</b>	Group
<b>1000</b>	<b>Welcome the Participants HSE Introduction and Borealis Presentation</b>	Roland Franzi, Linz Location Leader Georg Sambs, Production Manager
<b>1130</b>	<b>Plant Tour: Ammonia, Nitric Acid, Urea and Calcium Ammonium Nitrate Plants, Material Handling</b>	Ignaz Mayr Georg Sambs Karl Hohenwarter or Benjamin Voggenreiter and Andreas Spiegel (Production Managers)
<b>1300</b>	<b>Wrap Up and Lunch</b>	
<b>1400</b>	<b>Return to Hotel</b>	Group
<b>1600</b>	<b>Adjourn</b>	

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Wednesday, June 24

<u>Day/Hour</u>	<u>Activity</u>	<u>Responsibility</u>
0800	Important Turnaround Activities in Ammonia Plants	Frederick Kessler ThyssenKrupp Industrial Solutions AG
0845	Nitric Acid Production Technology	TBD ThyssenKrupp Industrial Solutions AG
0945	Coffee Break	
1010	Urea Technology – Basic Thermodynamics Urea Processes/Urea Process Safety	Hans van den Tillaart Stamicarbon
1210	Lunch	
1310	Urea Technology (continued)	Hans van den Tillaart Stamicarbon
1510	Coffee Break	
1530	Carbon Footprint	Bjarne Christensen ChemTechnic Consulting
1615	Nitrogen Fertilizer Production – Ammonium Nitrate and UAN Technology	Peter Kamermann ThyssenKrupp Industrial Solutions AG
1715	Daily Feedback	IFDC
1720	Adjourn	

**Thursday, June 25**

<b>Day/Hour</b>	<b>Activity</b>	<b>Responsibility</b>
<b>0800</b>	<b>Materials and Corrosion in Urea Plants</b>	Alex Scheerder Stamicarbon B.V.
<b>1000</b>	<b>Coffee Break</b>	
<b>1030</b>	<b>Materials and Corrosion in Urea Plants (continued)</b>	Alex Scheerder Stamicarbon B.V.
<b>1230</b>	<b>Lunch</b>	
<b>1330</b>	<b>UFT Fluid Bed Urea Granulation Technology – Basic Principles and Latest Environmental Developments</b>	Thomas Gerner Uhde Fertilizer Technology B.V.
<b>1530</b>	<b>Coffee Break</b>	
<b>1600</b>	<b>Ammonium Nitrate Production and Safety Aspects</b>	Peter Fauconnier Yara
<b>1700</b>	<b>Daily Feedback</b>	IFDC
<b>1725</b>	<b>Adjourn</b>	

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**Friday, June 26**

<b>Day/Hour</b>	<b>Activity</b>	<b>Responsibility</b>
<b>0800</b>	<b>Key Aspects of Urea Process and Toyo's Urea Technologies – ACES21™ and Granulation Process</b>	Shuhei Nakamura Toyo Engineering Corporation
<b>0915</b>	<b>ACT's Falling Curtain Process for Urea Granulation and Prilling Fattening</b>	Alan Nix Applied Chemical Technology
<b>1000</b>	<b>Coffee Break</b>	
<b>1030</b>	<b>Sulfur-Coated Urea</b>	Alan Nix Applied Chemical Technology
<b>1130</b>	<b>New Fertilizers Development: Shell Thiogro Technology</b>	Rafael García/Cyrille Allais Shell Thiogro
<b>1230</b>	<b>Post-Workshop Assessment</b>	IFDC
<b>1300</b>	<b>Closing Remarks</b>	J. Ramón Lazo de la Vega IFDC
<b>1310</b>	<b>Closing Remarks</b>	Volker Andresen IFA
<b>1320</b>	<b>Presentation of Certificates</b>	IFA/IFDC
<b>1400</b>	<b>Lunch and Conclusion of Workshop</b>	