الإتحاد العربي للأسمدة
ARAB FERTILIZER ASSOCIATION

PRAYON

AFA & PRAYON TECHNICAL WORKSHOP

FERTILIZERS RE-ENGINEERED

Innovating Processes for a Low-Carbon, High-Performance Future — phosphate and nitrogen technologies in one integrated program

WORKSHOP PROGRAM

FINAL · 10 NOV 2026

1 – 3 December 2026 | Liège, Belgium | Hotel Van der Valk Selys

01 TUE 1 DEC

Fertilizer Processes Re-Engineered

Market outlook · phosphate intensification · nitrogen pathways

02 WED 2 DEC

Real-World Innovations

Case studies, energy & carbon reduction · evening gala dinner hosted by De Smet Agro

03 THU 3 DEC

Exclusive Site Visit

Prayon Engis production site · Prayon Hub workshops · closing ceremony

DAY 01

TUESDAY, 1 DECEMBER 2026

Fertilizer Processes Re-Engineered

Market context, phosphate process intensification, nitrogen pathways — one integrated value chain · Salle de Bal, Hotel Van der Valk Selys

08:30 – 09:00 Registration & Welcome Coffee

Session 01

09:00 – 09:15

WORKSHOP

Safety Moment & Welcome Address



Chem. Saad Abou El Maaty
Secretary General, Arab Fertilizer Association



Marc Collin
Chief Technology Officer, Prayon

Session 02

09:15 – 09:45

MARKET OUTLOOK

Phosphate & Fertilizer Market Outlook



Simon Inglethorpe
Editor, Fertilizer International, CRU Group

Session 03

09:45 – 10:15

PHOSPHATE

Bridging the Gap from Laboratory to Reality: Working for the Next Generation

Scale-up strategy through pilot and semi-industrial testing for phosphate processing and circular economy



Tibaut Theys
General Manager, Prayon Technologies



Nikolay Todorov
Business Development Expert, Technophos

Session 04

10:15 – 10:45

NITROGEN

Green Molecules: Hydrogen Pathways from Grey to Green Ammonia



Ilayaraja Karuppasamy
Topsoe

10:45 – 11:15 Coffee Break & Networking

Session 05

11:15 – 11:45

PHOSPHATE

Chemical Beneficiation of Phosphate Rock



Kevin De Bois
Process Manager, Prayon Technologies



Jennifer Demeyere
Business Development Manager, Prayon Technologies

Session 06

11:45 – 12:15

NITROGEN

Nitric Acid Plant Decarbonisation Strategies: Revamping Existing Plants for N_2O and NOx Abatement



Dr. Klaus Nölker
Head of Technical Sales Ammonia and Fertilizer, thyssenkrupp Uhde

DAY 01 — TUESDAY, 1 DECEMBER 2026

Fertilizer Processes Re-Engineered (continued)

Session 07 — 12:15 – 12:45

SULPHUR / CROSS-CUTTING

Sulphuric Acid Technology for Fertilizer Complexes



Jesse Huebsch, P.Eng.
Sulphuric Acid Technology Manager, Worley (Chemetics)

Boris Nesic
Senior Business Development Manager, Worley (Chemetics)

12:45 – 14:00 — **Lunch**

Session 08 — 14:00 – 14:30

NITROGEN

Adaptive Ammonia & Fertilizer Technology

Revamps for capacity increase or energy reduction with minimal downtime



Daragh Blennerhassett
Head of Fertilizer & Acid Solutions, KBR

Session 09 — 14:30 – 15:00

PHOSPHATE

Prayon's Di-Hemi High-Yield Processes: Description and Case Studies

Higher P_2O_5 recovery, lower H_2SO_4 and water use, and valorisable high-purity gypsum



Sébastien Havelange
Senior Process Engineer, Prayon Technologies



Quentin Blanjean
Senior Process Engineer, Prayon Technologies

15:00 – 15:30 — **Coffee Break & Networking**

Session 10 — 15:30 – 16:00

NITROGEN

Engineering the Next Generation of Ammonium Nitrate and Nitrophosphate Production



Federico Senior Arenas
Business Development Manager, De Smet Agro

Session 11 — 16:00 – 16:30

NITROGEN

Sulphur Coated Urea: A Slow-Release Fertilizer



Svet Valkov
Business Development Manager, Ballestra (NextChem)

Session 12 — 16:30 – 17:00

NITROGEN

Low-Carbon Ammonia Synthesis Routes: Revamping Existing Plants to Reduce CO_2



Dr. Klaus Nölker
Head of Technical Sales Ammonia and Fertilizer, thyssenkrupp Uhde

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17:00 — **End of Day 1**

DAY 02

WEDNESDAY, 2 DECEMBER 2026

Real-World Innovations: Case Studies & Collaborative Discussions

Industrial success stories, energy and carbon reduction, and the technologies that make them possible · Salle de Bal, Hotel Van der Valk Selys

08:30 – 09:00 — **Welcome Coffee**

Session 01

09:00 – 09:30

PHOSPHATE

Process History by Prayon & Future Perspectives



Benoît Van Massenhove
Head of Business Development, Prayon Technologies



Julien Rappazzo
Process Engineer, Prayon Technologies

Prayon Technologies

Session 02

09:30 – 10:00

NITROGEN

Applied Energy Efficiency Improvements in a Fertilizer Plant: Condensate Recovery and Steam Trap Optimization

AFA member case study – ammonia and urea units, with CBAM in view



Eng. Mohamed Ramadan
Head of Production Planning & Energy Efficiency Department, Helwan Fertilizers Company

HFC HELWAN FERTILIZERS CO. شركة حلوان للأسمدة

Session 03

10:00 – 10:30

PHOSPHATE

Profile by Prayon: From Erection to Revamping, Expertise at Every Stage of Your Plant



Jean-Luc Vangramberen
Operation Manager, Profile

Profile® BY PRAYON

10:30 – 11:00 — **Coffee Break & Networking**

Session 04

11:00 – 11:30

NITROGEN

Digital Solutions for Operational Excellence, Optimal Operation, and Reduced Emissions in the Fertilizer Industry



Galid Zimmermann
Digital Sales & Solutions Manager, Stamicarbon

STAMICARBON NEXTCHEM Sustainable Technology Solutions

Session 05

11:30 – 12:00

PHOSPHATE

Energy Saving and Carbon Reduction in Filtration and Scrubbing



Pierre-Henri Thiefaine
Business Development Manager, Profile

Profile® BY PRAYON

Session 06

12:00 – 12:30

PHOSPHATE

Refining Phosphoric Acid: Removal of Arsenic, Cadmium and Sulphate, and Ion-Exchange Resins



Thomas Henry
Senior Process Engineer, Prayon Technologies



Alexandre Wavreille
Process Manager, Prayon Technologies

Prayon Technologies

DAY 02

WEDNESDAY, 2 DECEMBER 2026

Real-World Innovations: Case Studies & Collaborative Discussions (continued)

12:30 – 13:45 — **Lunch**

Session 07

13:45 – 14:15

SULPHUR / CROSS-CUTTING

Towards a World Without Sulphur



Marc Sonveaux
Head of Industrialization, Prayon Technologies



Anna Dikova
R&D Manager, Technophos

Prayon Technologies

Technophos

Session 08

14:15 – 14:45

NITROGEN

Ammonia-Fired Turbines



Jesper Poulsen
Sales Director – Cordant, Baker Hughes

Baker Hughes

Session 09

14:45 – 15:15

PHOSPHATE

Merchant Grade Acid (MGA): Production and Handling

Maturation, cooling, clarification, storage and export loading of concentrated phosphoric acid



Jan Tytgat
Process Engineering Manager, De Smet Agro

DE SMET AGRO

15:15 – 15:45 — **Coffee Break & Networking**

Session 10

15:45 – 16:00

WORKSHOP

Engis Site Visit Briefing & Prayon Video

Prayon corporate video · groups, transport and programme for Day 3



Quentin Blanjean
Senior Process Engineer, Prayon

PRAYON

16:00 — **End of Day 2**

DE SMET AGRO

EVENING PROGRAMME

Gala Dinner hosted by De Smet Agro

18:30 – 22:00 · La Grand Poste, Liège

Walking dinner & bar | Guided visit of La Grand Poste | Liège waffle workshop | Hotel shuttle

DAY **03**

THURSDAY, 3 DECEMBER 2026

Exclusive Site Visit – Prayon Engis & the Prayon Hub

Industrial-scale phosphate processing at Engis, then hands-on workshops, meet-the-experts and the closing ceremony at the Prayon Hub (rue de la Digue 22, Flémalle)

Prayon Engis Site Visit	**08:30**	Meeting point – Hotel Van der Valk Selys lobby
	09:00 – 09:30	Bus transfer Liège → Prayon Engis
	09:35 – 10:05	Guided bus tour of the Engis production site (delegates remain on the bus) – ore handling, phosphoric acid, purification & specialty products
	10:05 – 10:15	Transfer to the Prayon Hub, Flémalle
Prayon Hub Workshops	**10:30 – 11:00**	Welcome coffee at the Prayon Hub
	11:00 – 12:00	Rotating workshop groups: process simulator · Profile discovery zone · Meet the experts (Prayon Technologies / Profile) · hands-on workshop with the Prayon team
Closing Ceremony	**12:00 – 13:15**	Certificates of attendance · key takeaways · announcement of the next AFA workshop
	13:15 – 13:30	Closing words – AFA and Prayon management
Lunch	**13:30 – 14:30**	Farewell lunch hosted by Prayon at the Hub
Departure	**14:30**	Afternoon free – transfer to Hotel Van der Valk Selys / Liège-Guillemins station

Note: Prayon staff will accompany and guide delegates throughout the day. The site tour is made by bus. Groups and the tour sequence will be presented at the Day 2 briefing.



Prayon Engis production site
On the Meuse, west of Liège



Engis from the air
Industrial-scale phosphate processing

Photos © Schmitt-GlobalView, courtesy of Prayon