Benguerir
Morocco
24-26 November
2026

ESPC6

European
Sustainable
Phosphorus
Conference

Sustainable Phosphorus:

Innovation, Efficiency And Circularity

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Venue: University Mohammed VI Polytechnic (UM6P), Ben Guerir, Morocco

Pre-Conference

Young Phosphorus Day - Monday, 23 November

09:30 – 09:45	Welcome address by the organizers
09:45 – 10:30	**"Pitch your Phosphorus"** 180 seconds, 3 slides, 10–15 speeches
10:30 – 11:00	**Coffee Break & Phosphorus Memes** Anonymous meme presentation and voting
11:00 – 11:30	**Innovation & Poster Marketplace** Expo-style space with ECR posters, startups, pilot projects and industry demonstrations
11:30 – 12:30	**Panel discussion with experts** Increasing the impact of phosphorus research
14:30 – 16:00	**"Phosphorus without borders": thematic working groups** Emphasis on Africa–Europe perspectives and resource-constrained contexts
16:00 – 16:15	**Coffee break**
16:15 – 16:45	**Panel discussion:** **Sustainable Phosphorus Perspectives: Bioeconomy, Circularity and Sustainable Value Chains**
16:45 – 17:00	**Closing Remarks**
19:00	**Networking & Cocktail Dinner** (exclusively for participants of the Young Researcher's Day)

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Day 1 — Tuesday, 24 November

08:00 – 09:00	Registration & Welcome Coffee
09:00 – 09:20	**Opening and housekeeping -** Manal Bernoussi, Moderator **Keynote and welcome remarks** Opening addresses: - Mohammed VI Polytechnic University (UM6P) — Hicham El Habti, President - European Sustainable Phosphorus Platform (ESPP) — Robert Van Spingelen, President - OCP — Meriem El Asraoui, Chief Global Affairs Officer
09:20 –09:50	**Keynote on food security and the importance of Nutrients** International Atomic Energy Agency (IAEA) — Najat Mokhtar, Deputy Director General International Fertilizer Development Center (IFDC) — Henk van Duijn, President and Chief Executive Officer
09:50 – 10:45	**Morning Plenary —The Strategic Role of Phosphorus** - European Commission, DG Agriculture and Rural Development (DG AGRI) — Stefanos Kirkagaslis - International Fertilisers Association — Achim Dobermann - Fertilizers Europe — Chris Poole
10:45 – 11:15	Coffee Break
11:15 – 12:45	**Parallel Sessions A** Session 1 — Closing the Phosphorus Loop: Recovery and Recycling [I] Session 2 — Climate Change & Phosphorus Session 3 — Phosphorus Management and Applications *(see Parallel Sessions — Detailed Programme, below)*
12:45 – 13:45	**Networking Lunch & Poster exhibition**

13:45 – 15:15	**Parallel Sessions B** Session 1 — Phosphorus for Sustainable and Resilient Food Systems Session 2 — Closing the Phosphorus Loop: Recovery and Recycling [II] Session 3 — Phosphorus Stewardship in Action: African Experiences and Global Perspectives *(see Parallel Sessions — Detailed Programme, below)*
15:15 – 15:45	Coffee Break
15:45 – 17:00	**Afternoon Plenary — Phosphorus applications: challenges and perspectives** - Fertecon / S&P Global, Allan Picket - Willem Schipper, Phosphate Industry Expert - European Commission, DG Internal Market, Industry, Entrepreneurship and SMEs (DG GROW), Hans Ingels - European Centre for Research and Teaching in Environmental Geosciences (Cerege), Daniel Nahon
17:00 – 17:30	**Innovators' Pitch: Sustainable Phosphorus Solutions from:** BETA, Emter GmbH, NuReSys, Prayon, OCP, Re-Cord, Wetsus
17:30 – 18:30	**Reception and poster exhibition**
19:00	**Networking Dinner in Ben Guerir (on site)**

Day 2 — Wednesday, 25 November

08:00 – 09:00	Welcome Coffee
09:00 – 10:40	**Morning Plenary:** **Phosphorus and the Environment: From Science to Action** - European Commission Joint Research Centre - Elise van Eynde - OCP Nutricrops — Leonardus Vergutz - German Federal Environment Agency (UBA) - Andrea Roskosch - Mohammed VI Polytechnic University (UM6P) - Joann Karen Whalen - UN Environment Programme (UNEP) - Wanjiru Edna
10:40 – 11:10	Coffee break
11:10 – 12:50	**Morning Plenary — Phosphorus Reuse and Recycling: Scaling Circularity** - RagnSells — Pär Larshans - European Commission Joint Research Centre - Dries Huygens, Lukas Egle - Ramboll — Manon Cavagna - EFCI, Notified Body for the EU Fertilising Products Regulation — Simonetta Gallerini - European Biogas Association — Lucile Sever
12:50 – 14:00	Networking Lunch and Poster exhibition
14:00 – 15:30	**Parallel Sessions C** Session 1 — Closing the Phosphorus Loop: Recovery and Recycling [III] Session 2 — Climate, Soils and Phosphorus Dynamics Session 3 — Aligning Innovation and Industry Session 4 — African Plant Nutrition Institute (APNI) session: Phosphorus Stewardship for Food Security and Environmental Sustainability
15:30 – 16:00	Coffee Break
16:00 – 17:00	- **Reports from the parallel sessions** - **Announcement of Poster Awards** - **Statements on Young Researchers Day outcomes: Key Research Priorities for the Phosphorus Value Chain**
17:00 – 17:15	**Closing Statements by the conference organizers — OCP & ESPP**

Parallel Sessions — Detailed Programme

Parallel Sessions A — Day 1, 11:15 – 12:45

Closing the Phosphorus Loop: Recovery and Recycling [I] Day 1 11:15 – 12:45	**Jouke Boorsma (Aquaminerals)** Unlocking the value of vivianite from wastewater: bridging product quality, market uptake and regulatory barriers **Hugo Quintana (Cetaqua)** Circular phosphorus recovery from residual streams: development of a cascade precipitation technology for fertiliser valorisation **Joan Antoni Baeza Labat (Universitat Autònoma de Barcelona)** Phosphorus Recovery Potential from Municipal Wastewater via Side-Stream Enhanced Biological Phosphorus Removal **Andreas Kolb (University of Braunschweig)** Results from the first full-scale trials of struvite precipitation following biological phosphorus remobilisation at two municipal WWTPs **Philip Demling (RWTH Aachen)** Creating commercial incentive for phosphate recycling: Biotechnological production of high-value polyphosphates with baker's yeast
Phosphorus Management and Applications Day 1 11:15 – 12:45	**Xiu Gao (KTH)** Phosphorus Flows Driven by the Seaweed Industry in China: A Multi-Decade Analysis with AI-Based Scenario Exploration **Jan Weigand (TU Dresden)** From Phosphate Rock to Chemicals: Redox-Neutral Pathways for a More Sustainable Phosphorus Value Chain **Lucia Zuin (Canadian Light Source)** Why would you want to use a Synchrotron for your Phosphorus study? **Xiao Yang (Westlake University)** Production of high-purity white phosphorus in molten CaCl2 **Zhengyang Zhang (Tohoku University)** Phosphorus Flows in Emerging Battery Technologies
Climate Change and Phosphorus Day 1 11:15 – 12:45	**Soufiane Ayoube (UM6P)** Global climate change impacts on phosphorus and carbon biogeochemical cycles and phosphate deposition **Nathan Schunk (North Carolina State University)** Projecting the Global Consequences of Phosphorus Scarcity: Comparing Price Shocks and Supply Constraints in Agricultural Systems **Solvita Kostjukova (University of Latvia)** Natural Mineral Sorbents for Phosphorus Recovery from Open Water Systems and Circular Reuse in Agriculture ***Lotfi Khiari (Laval University)*** *Residual phosphorus efficiency of recycled fertilizers for circular phosphorus management*

Parallel Sessions B — Day 1, 14:15 – 15:45

Phosphorus for Sustainable and Resilient Food Systems, incl. Fertilizers Day 1 14:15 – 15:45	**Nicolai Jablonowski (FZ Jülich)** Sustainable Plant Production via Improved Sulfur/Phosphorus Fertilization: Development of Multifunctional Composite Fertilizers for Enhanced Nutrient Use Efficiency ***T.A. Ogunweide (Obafemi Awolowo University)*** *Reducing Phosphorus Fertiliser Losses Through Cropping System Design: Evidence from Sub-Humid Southwestern Nigeria (pending administrative confirmation)* **Yahaya Mohammad Yusuf (UM6P)** How the Rhizosphere Chemistry Explains the Effectiveness of Radish in Reclaiming Legacy Phosphorus Compared to Maize **Paulo Pavinato (University of São Paulo)** Long-term phosphorus management enhances crop productivity and improves its availability under no-tillage in the Brazilian Cerrado **Henrique Raniro (University of Copenhagen)** Improving recycled phosphorus fertilizer efficiency through (bio)acidification and targeted application strategies
Closing the Phosphorus Loop: Recovery and Recycling [II] Day 1 14:15 – 15:45	**Alba Ceballos-Escalera (University of Girona)** Pilot plant for phosphorus recovery from wastewater sludge: Electrochemical crystalliser for efficient struvite formation **Michael Renz (Polytechnic University of Valencia)** Recovery of phosphorus from the Organic Fraction of Municipal Solid Waste and its classification according to EU regulation of fertilizing products **Yuwei Huang (Wetsus)** Post-regeneration neutralization stabilizes phosphorus recovery from Ca- and NOM-rich waters **Yariv Cohen (EasyMining)** Building the world's first Ash2Phos plant in Schkopau, Germany **Mohamed Takhim (TTBS)** From Waste to Resource: Pilot Validation and Industrial Upscaling of the RubiPhos® Circular Phosphorus Recovery Technology
Phosphorus Stewardship in Action: African Experiences and Global Perspectives — Global Phosphorus Institute (GPI) session Day 1 14:15 – 15:45	**Mamou Ehui (Global Phosphorus Institute, Morocco)** Part 1: From Regional Evidence to Strategic Choice — with Tilahun Amede (AGRA, Kenya) and Gerald Steiner (University for Continuing Education Krems, Austria) Part 2: From African Priorities to Regional and Global Cooperation

Parallel Sessions C — Day 2, 14:00 – 15:30

Climate, Soils and Phosphorus Dynamics Day 2 14:00 – 15:30	**Ingeborg Pedersen (Aarhus University)** Improving Phosphorus Fertilization Decisions in Acid Sandy Soils: The Value of $CaCl_2$-Extractable P Beyond Olsen-P **Berta Singla (Beta)** Effect of carbon availability, phosphorus and soil water content on GHG emissions: insights from a soil incubation study **Khaled Alotaibi (King Saud University)** Phosphorus Management in Arid Soils: Integrated Approaches for Sustainable P Use ***Innocent Muhwezi (University of Ghana)*** *Sustainable Organic Phosphorus Management for Climate-Resilient and Gender-Inclusive Food Systems in East Africa (pending administrative confirmation)* ***Mariam D. Kiba/Soma (CNRST)*** *Increasing P availability and use efficiency in cultivated soils of Sub-Saharan Africa: Insights from the long-term field experiments of Saria in Burkina Faso*
Aligning Innovation and Industry Day 2 14:00 – 15:30	**Andrey Stephan Siahaan (Tohoku University)** RinPhos Process: Progress and Implementation toward Circular Phosphorus Economy **Hanae Zouiti (UM6P)** Three dimensions for evaluating circular economy transition in the phosphate mining value chain: A review **Aalaa Moussaid El Idrissi (UM6P)** Conversion of Phosphogypsum into value-added products **Axel Yakub (TechnoPhos) & Kevin De Bois (Prayon)** Smart Mining Solutions for Cadmium and Organic Matter Reduction in Phosphate Rock: a collaborative technology development by TechnoPhos and Prayon Technologies
Closing the Phosphorus Loop: Recovery and Recycling [III] Day 2 14:00 – 15:30	**Christina Zipp (University Kaiserslautern)** Experimental and Model-Based Design of Phosphate Recovery in Fixed Beds **Andrea Salimbeni (Re-Cord)** Extraction of phosphorus from pyrolysis char: comparison of two innovative processes (pending administrative confirmation) **P. de Jaeger (Aquacare)** Pilot study: high-performance phosphorus removal from WWTP effluents using the BioPhree® technology **Alexandre Galí (BETA)** Assessment of phosphorus extraction and recovery strategies from agrowaste digestate

African Plant Nutrition Institute (APNI) session: **Phosphorus Stewardship for Food Security and Environmental Sustainability** Day 2 14:00 – 15:30	This session examines phosphorus as a strategic issue for context food security, soil health, resource access and environmental quality. The discussion will draw on experience from both regions to identify shared research needs and priorities for investment, data systems and policy, with solutions adapted to local conditions. The discussion will conclude with priorities for research, investment, data and policy action to support sustainable phosphorus use across Africa.