



# PHOS4YOU FINAL CONFERENCE

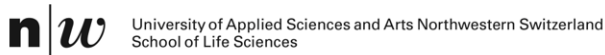
Phosphorus recovery from wastewater:  
 approaches developed within Phos4You

**22<sup>nd</sup> – 23<sup>rd</sup> September 2021**

Essen - Germany & online

Event location: Ruhrturn, Huttropstrasse 60, 45138 Essen

## - Programme -



# Programme 22<sup>nd</sup> September 2021

Moderation: Daniel Frank, DECHEMA e.V.

09:30 Registration and welcome coffee

## 10:00 OPENING

### **Waterboards tackling the circular economy in Germany**

*Uli Paetzel, German Water Association and CEO Emschergenossenschaft Lippeverband*

## 10:30 EUROPEAN CONTEXT OF THE PHOSPHORUS CHALLENGE

### **Conferring the “End-of-Waste” status with the EU fertilising products regulation**

*Ana-Lucia Crisan, EU COM - DG GROW*

### **Opportunities for phosphorus recycling in Europe today and tomorrow**

*Chris Thornton, European Sustainable Phosphorus Platform*

### **Lessons learned from the Phos4You project and introduction to the presented results**

*Marie-Edith Ploteau, Lippeverband*

12:00 Lunch break

## 13:00 URBAN CONTEXT AND DEPLOYMENT OF PHOSPHORUS RECYCLING

### **EuPhoRe® process - Experiences and deployment potential**

*Frank Zepke, EuPhoRe GmbH and Georg Schmelz, Emschergenossenschaft*

### **Bioacidification combined with STRUVIA™ process - Results of demonstration and modelling works**

*Marie-Line Daumer, INRAE and Cédric Mébarki, Véolia*

### **PULSE process - Outcomes of the mobile pilot plant trials**

*Zaheer Shariff, Université de Liège*

### **Tetraphos® process applied to NL and DE sewage sludge ashes - comparative analysis**

*Andreas Rak, REMONDIS Aqua GmbH & Co. KG*

### **PARFORCE process - Results of trials with sewage sludge ashes of Emscher-Lippe-Region**

*Jürgen Eschment, PARFORCE Engineering & Consulting GmbH*

14:30 Coffee break

## 15:00 Scenarios for implementing the mandatory phosphorus recovery in Switzerland

*Anders Nättorp, Fachhochschule Nordwestschweiz*

### **Sewage sludge incineration plant´s operators on the way to recycle phosphorus from sewage sludge ashes in The Netherlands**

*Josien Ruijter, HVC Groep and Luc Sijstermans, Slibverwerking Noord-Brabant*

### **Strategical options for recycling phosphorus from wastewater in the Emscher-Lippe region**

*Dennis Blöhse, Lippeverband*

## 16:30 OUTLOOK

### **Reduce disparities in North-West Europe - Outline of the new INTERREG funding period and opportunities for the circular economy and the recycling of nutrients**

*Mathieu Mori, Joint Secretariat INTERREG North-West Europe*

## 16:45 GET TOGETHER AT RUHRTURM (ENDS AT 18:00)

19:00 Optional: Networking dinner at LUKAS, lake Baldeney, Prinz-Friedrich-Platz 1, 45257 Essen

# Programme 23<sup>rd</sup> September 2021

08:30 Registration and welcome coffee

## 9:00 PHOSPHORUS RECYCLING AND NUTRIENT MANAGEMENT IN THE EU

**Key Note: Perspectives for nutrient management in Europe from the perspective of the Farm-to-Fork Strategy and the Common Agricultural Policy**

*Gijs Schilthuis, EU COM - DG AGRI*

**Panel discussion: What is needed to successfully implement phosphorus recycling?**

*Gijs Schilthuis, EU COM - DG AGRI; Burkhard Teichgräber, Emschergenossenschaft Lippeverband; Marc Collin, Prayon S.A; Ian Marshall, Irish Nutrient Sustainability Platform*

10:30 Coffee break

## 11:00 RURAL CONTEXT AND DEPLOYMENT OF PHOSPHORUS RECYCLING

**Needs for phosphorus removal at small wwtp - Avoidable loads from agglomerations and scattered dwellings not covered yet by the urban wastewater treatment directive**

*Alberto Pistocchi, EU COM - Joint Research Centre*

**Decision-support tool developed to identify the potential application of P recovery solutions at the scale of EU countries**

*Pierre Thiriet, INRAE*

**Recommendations for stakeholders engagement based on Scottish and Irish experiences**

*Tamsyn Kennedy, Scottish Water*

**Development of a crab-carapace based adsorbent for Filtraflo™ P**

*Szabolcs Papp, Environmental Research Institute, University of the Highlands and Islands*

**Phosphorus removal and recovery with STRUVIA™ at a small-scale wwtp**

*Joe Harrington and Ciaran o'Donnell, Munster Technological University*

**Microalgae as a solution for wastewater treatment: knowledge gained from operation at sewage works**

*Ania Escudero and Ole Pahl, Glasgow Caledonian University*

13:00 Lunch break

## 14:00 ASSESSMENT OF PROCESSES AND PRODUCTS

**Trials campaign made with EuPhoRe sewage sludge ashes at a fertiliser mixing plant of the Raiffeisen Hunsrück Handelsgesellschaft mbH**

*Daniel Klein, Emschergenossenschaft*

**Results of the trials campaigns made with phosphate recovered with the PULSE process**

*Hubert Halleux, Prayon S.A.*

**Works and conclusions on methodological aspects for LCA-LCC of P recovery processes**

*Gaspard Chantreain, Université de Liège*

**Recommendations towards EU standards to assess quality of recovered P materials based on Phos4You works**

*Ana Robles Aguilar, Universiteit Gent*

## 15:45 DISCUSSION AND CONCLUSIONS FOR FUTURE PHOSPHORUS STEWARDSHIP

**Moderated discussion with audience**

*Daniel Frank, DECHEMA e.V.*

## 16:15 EXCURSION TO EUPhoRE® DEMONSTRATOR, DINSLAKEN (ENDS AT 19:15)

# Conference materials

**FOR ALL DOCUMENTS PLEASE FOLLOW THE LINK:  
[WWW.NWEUROPE.EU/PHOS4YOU](http://WWW.NWEUROPE.EU/PHOS4YOU)**

The following conference materials are at hand:

- **Technical report of the Phos4You partnership on processes to recover phosphorus from wastewater (en, with abstract in en, de, fr, nl)**
- **Factsheets on 7 phosphorus recovery processes in 4 languages (en, de, fr, nl)**
- **Factsheets on 5 phosphorus products in 4 languages (en, de, fr, nl)**
- **Videos on phosphorus recovery processes demonstrated in Phos4You (en)**

After the Phos4You Final Conference further documents will be at hand:

- **Final report of the Phos4You partnership: deploying phosphorus recycling from wastewater in North-West Europe (en, with abstract in en, de, fr, nl)**
- **Quality assessment of recovered phosphorus materials carried out within the Phos4You project (en)**
- **Presentations held during the final conference in pdf format (en)**