



**NERM (Nutrients in Europe Research Meeting)** is organized by ESPP, FERTIMANURE, LEX4BIO, RUSTICA, SEA2LAND, WALNUT, and Biorefine Cluster Europe. It focuses on discussions around **closing nutrient cycles for a sustainable future**, from R&D to implementation.

This year, the conference will host, as a pre-event, a PhD school on the afternoon of April 15<sup>th</sup> at the Catalan Government (Rue de la Loi, 227, 1040 – Brussels), co-organized by the ESNI community and the RecaP Project.

The first part of the event will be focused on the RecaP project, which has been developing innovative techniques for phosphorous management. The project’s PhD students will give pitches on their research topics, followed by different discussion groups on the varied aspects of phosphorous management, from capture to transformation.

The second part of the event will present three discussion groups on the topic of nutrient recovery: can it be done sustainably, how to interact with stakeholders such as farmers and policymakers, and how to bring biobased fertilizers to the market.

PhD EVENT PROGRAMME – APRIL 15 <sup>TH</sup>	
12h30 – 13h00	<b>Registration</b>
<b>Session I: RecaP project</b>	
13h00 – 14h00	<b>PhD pitches (see topics below)</b>
14h00 – 15h00	<b>Discussion in focus groups</b> Group 1 – Capture P (Michela, Lucas & Jessica) Group 2 – Recover P (Salman, Sophie & Yudong) Group 3 – Utilize P (Josephine, Henrique & Juan) Group 4 – Cycle P (Rodrigo, Esmaeel & Harm) Group 5 – Transform P (Sinoxolo, Teodor & Harrie)
15h00 – 15h30	<b>Coffee Break</b>
15h30 – 16h30	<b>Discussion in focus groups</b> Group 1 – How sustainable is nutrient recovery? (Moderator: Prof Jeroen Buysse, Ghent University) Group 2 – How to interact with stakeholders? (Moderator: Prof Erik Meers, Ghent University) Group 3 - How to bring biobased fertilizers to the market? (Moderator: Ana-Marija Spicnagel, IPS)
16h30 – 17h00	<b>Reporting of the discussions and wrap-up of the PhD event</b>



**Session I: 13:00-14:00 – PhD pitches**

Assessment of polymeric materials for P recovery

*Michela Pacchione – Queen’s University Belfast*

Layered double hydroxides as sorbents for phosphate capture and recovery

*Lucas Urbano – University of Southern Denmark*

Prevention of eutrophication through phosphorus recovery from freshwater

*Jessica Papera - Wetsus*

Vivianite crystallization for phosphorus recovery in wastewater treatment plants

*Salman Amjad – University of Southern Denmark*

Exploring barriers in recovering phosphorus from manure via vivianite formation

*Sophie Banke - Wetsus*

Recovery and separation of Fe and P from sludge

*Yudong Zhao – University of Oulu, Finland*

Relating the P speciation of sewage sludge biochars to their fertilizer value

*Josephine Kooij – University of Copenhagen*

Tailored cover crop mixtures for improved soil P exploration and subsequent crop nutrition

*Henrique Rasera Raniro – University of Natural Resources and Life Sciences, Vienna*

How much national cereal demand can recycled P meet?

*Juan Serrano-Gomez – Proman Management GMBH*

Beyond Conveyance: Assessing Process-critical Bacteria Loads from Urban Sewer Systems to WWTPs

*Rodrigo Maia Valença – Aalborg University*

AI-based modeling and optimization for P removal in wastewater treatment plants

*Esmaeel Mohammadi – Krüger A/S Denmark*

Investigating the persistence of Fe-P in lake sediment under sulfidic conditions

*Harm van Kuppevelt – Leibniz Institute for Freshwater Ecology and Inland Fisheries*

Phosphorus use in organic agriculture across the EU+UK

*Sinoxolo Magaya – Vrije Universiteit Amsterdam*

Transforming the EU’s Phosphorus Governance through Intersectoral and Holistic Framings

*Teodor Kalpakchiev – University of Leeds*

Transdisciplinary approaches for addressing the phosphorus challenge

*Harrie L. Mort – University of Leeds*