

# Programme 3rd European Sustainable Phosphorus Conference 2018

Helsinki, Finlandia Hall, 11-13 June

[www.phosphorusplatform.eu/ESPC3](http://www.phosphorusplatform.eu/ESPC3)

HELSINKI  
11-13 June  
2018



European  
Sustainable  
Phosphorus  
Conference



Monday 11 June				
Monday 11 June	9h15 – 10h45	<b>Opening Plenary</b>		
		Saara Kankaanrinta - Chairman of the Baltic Sea Action Group (BSAG)		
		Jan Vapaavuori - Mayor of Helsinki City		
		Karmenu Vella - European Commissioner for the Environment (video message)		
		Jaana Husu-Kallio - Permanent Secretary at the Ministry of Agriculture and Forestry of Finland - Nutrient circular economy policy of Finland		
		Ludwig Hermann - President European Sustainable Phosphorus Platform (ESPP) - Road from ESPC1 to ESPC3 and conference objectives		
		Petteri Taalas - Secretary general World Meteorological Organization (WMO) - Setting the scene day 1		
	10h20	<b>Success stories</b>		
		Andrea Gysin - Ostara - Struvite phosphorus recovery from sewage works		
		Hannamajja Fontell - Metsä Group / Biolan Oy - From paper pulp mill to garden		
		Kristy Blakeborough-Wesson - SARIA UK - Cat1 animal by-product ashes as fertilisers		
		Benoit Planques - Italtollina - Organic fertilisers and biostimulants to improve plant nutrition		
		<b>Questions and discussion</b>		
	10h45 - 11h15	Break		
	11h15 – 12h30	<b>Plenary – Global challenges</b>		
		Will Brownlie - CEH Edinburgh Our Phosphorus Future (UK NERC - UNEP project) and Scientists' Call		
	Tiffanie Stephani - Fertilizers Europe - Feeding the world			
	Matt Scholz - Sustainable Phosphorus Alliance - View from the Americas, update on actions, in particular on biosolids and manure			
	Sirpa Pietikäinen - Member of the European Parliament - European political perspectives for a sustainable phosphorus future			
	<b>Questions and discussion</b>			
12h30 – 14h00	Lunch			
14h00 – 15h30	<b>Parallel sessions I</b>			
	<b>1. Phosphorus, carbon, nitrogen, climate and food security</b>	<b>2. Nutrient circular economy</b>	<b>3. Phosphorus in agriculture and livestock</b>	
Moderator	Helena Kahiluoto - Lappeenranta University of Technology, Finland	Lassi Linnanen - Lappeenranta University of Technology, Finland	Oscar Schoumans - Wageningen University & Research, Netherlands	
Rapporteur	Anders Nättorp - University of Applied Sciences and Arts Northwestern (FHNW), Switzerland	Geneviève Metson - Linköping University, Sweden	Daniel Frank - German Phosphorus Platform (DPP)	

		<p><b>Paul Withers</b> - Lancaster University UK - The role of phosphorus in the resilience and sustainability of the UK food system</p> <p><b>Jari Liski</b> - Finnish Meteorological Institute - Finnish Carbon Action pilot project</p> <p><b>Janne Helin</b> - Natural Resources Institute Finland (Luke) - Impacts of global food demand and income growth on phosphorus demand</p> <p><b>Juha Helenius</b> - University of Helsinki - Agroecological symbiosis: food system redesign for bioenergy and recycling</p>	<p><b>Fabian Kraus</b> - Kompetenzzentrum Wasser Berlin (KWB) - Comparative Life-Cycle Assessment of phosphorus recovery from wastewater path and phosphate rock based fertilizer production</p> <p><b>Renske Verhulst</b> - Netherlands Nutrient Platform (NNP) - Transition agenda: a multi-stakeholder approach in the Netherlands</p> <p><b>Mathias Bergman</b> - Baltic Sea Action Group (BSAG) - Breakthrough for nutrient cycling business ecosystem</p> <p><b>Gauthier Boels</b> - Yara - Nutrient circular economy: fertilizer company integration in circular value chains</p>	<p><b>Giuliana D'Imporzano</b> - LIFE-DOP project - Nutrient management best practices in dairy production for Italian cheese</p> <p><b>Sari Luostarinen</b> - Natural Resources Institute Finland (Luke) - Tools to calculate manure quantity and quality and to plan regional manure nutrient recycling in Finland</p> <p><b>Arno Rosemarin</b> - Stockholm Environment Institute (SEI) - PEGaSus project Phosphorus efficiency in poultry: bridging the gaps in the phosphorus value chain</p> <p><b>Erik Sindhoj</b> - RISE Agrifood and Bioscience - Baltic experience of slurry acidification</p>
<b>Monday 11 June</b>	15h30 – 16h00	Break		
	16h00 – 17h30	Parallel session reports & plenary on the R&D agenda		
		Plenary reports from parallel sessions and discussions		
	16h30	<p>R&amp;D project presentations</p> <p><b>Hanna Kyllönen</b> - VTT - Decentralised wastewater treatment with full resource recovery</p> <p><b>Marco Michelotti</b> - Prophos - Phosphorus recovery from fire extinguishers</p> <p><b>Anna Mikola</b> - Aalto University - NP Harvest: lime &amp; nitrogen recovery with gas permeable membrane</p> <p><b>Markku Ollikainen</b> - University of Helsinki - Gypsum spreading on fields to reduce phosphorus runoff</p> <p><b>Laura Rossi</b> - Helsinki Region Environmental Services Authority (HSY) - RAVITA thinking outside the recovery box</p> <p><b>Geneviève Metson</b> - Linköping University - Optimizing phosphorus recycling through biogas production in Sweden</p> <p><b>Marissa de Boer</b> - University of Amsterdam - Netherlands phosphorus flows and phosphorus recovery potential</p> <p><b>Jaakko Mäkelä</b> - Pasrea Oy - Heat and ammonia recovery from manure composting</p> <p><b>Laura Van Schöll</b> - NMI BV Netherlands - INTERREG ReNu2Farm project</p>		
		Discussion on R&D needs in Europe and nutrients in EU FP9 (beyond Horizon 2020) - led by <b>Kimo van Dijk</b> - ESPP		
	17h30 – 18h30	Poster session and drinks - networking		
	17h30 – 18h30	Scientists working meeting on Scientists Call and other actions - led by <b>Will Brownlie</b> - CEH Edinburgh (invited only)		
	19h30	Leave to walk to networking dinner, Helsinki City Hall (25 minutes walk)		

Tuesday 12 June			
9h00 – 10h30			
<b>Opening plenary - Addressing eutrophication and restoration</b>			
Jonathan Trent - Adjunct Professor University of California - Setting the Scene day 2			
Tabea Stötter - Rhine Commission - 50 years of restoration			
Monika Stankiewicz - HELCOM - From nutrient removal to nutrient recovery in the Baltic Sea			
Steve Rowe - Newtrient - US dairy industry evaluation catalogue of manure treatment technologies and suppliers (video link)			
10h05			
<b>Success stories:</b>			
Tomasz Wojciechowski - GWDA Poland - Compost in Poland			
Yariv Cohen - Easymining - Ash2Phos: clean commercial phosphorus products from sewage sludge ash			
Juuso Joona - Soilfood - Fertilisers and soil improvers from forestry and food industry side streams			
Wilbert Menkveld - Nijhuis Industries - Ammonia recovery from anaerobic digestion			
Outi Grönfors - Kemira - Energy efficient phosphorus recovery solution at wastewater treatment plants			
<b>Questions and discussion</b>			
10h30-11h00			
Break			
11h00-12h30			
<b>Parallel sessions II</b>			
	<b>4. Ecological nutrient restoration, nutrient recovery from sediments and run-off water</b>	<b>5. Technologies for nutrient recovery from waste waters</b>	<b>6. Policy tools for sustainable use of nutrients</b>
Moderator	John McGrath - Queen's University Belfast	Pertti Keskitalo - Ramboll Global Water, Finland	Beatrice Garske - University of Rostock & Martin Verbeek - Twente Mineral Valley NL
Rapporteur	Stephen Hinton - Swedish Sustainable Economy Foundation (TSSEF)	EurEau European water sector (TBD)	Chris Thornton – European Sustainable Phosphorus Platform (ESPP)
Tuesday 12 June	Leon Korving - Wetsus - Phosphorus removal from diluted sources such as agricultural run-off and sewage effluent	Anders Finnson - Svenskt Vatten (Swedish Water & Wastewater Association) - Swedish strategy for recycling of wastewater resources and EU's waste and recycling hierarchy	Arabel Amann - TU Vienna - Strategies towards a sustainable phosphorus management in Austria
	Esa Salminen - Vahanen Environment - Speeding up the ecological recovery of the Baltic Sea by engineering (EUTROPH 6)	Christian Kabbe - Isle Utilities - From discussion to implementation: the impact of nutrient recovery targets and legal obligations on practical implementation	Stefan Russel - European Environmental Foundation - Development, implementation and management of nutrient circular economy in Poland
	Anne-Mari Ventelä - Pyhäjärvi-instituutti - Lake recovery by cypranid and planktivore fish removal	Mindaugas Šilininkas - Pageldyniu Plantacija: - Nutrient from municipal water treatment sludge recycling into biomass in Lithuania: experience and prospects	Herman Walthaus - Netherlands Ministry of Infrastructure and Water Management - Towards a circular production of biomass and food in the Netherlands
	Ben Simonsson - TeknikMarknad	Esa Nikunen - City of Helsinki - BEST project (Better Efficiency for Industrial Sewage Treatment)	Jessica Stubenrauch - Leipzig and Leibniz Science Campus Phosphorus Research Rostock - Sustainable Phosphorus Governance from a cross-national perspective

12h30-14h00	Lunch
14h00-15h15	Parallel session reports & plenary
	Plenary reports from parallel sessions and discussions
14h30	<b>Success stories</b> <b>Zouhayr Arbib</b> - Micro-algae & bacteria phosphorus recovery ponds since 2011 <b>Miirö Jääskeläinen</b> - Eko Harden - Electrokinetic oxidation and dewatering of sediments in Töölö Bay <b>Bertrand Convers</b> - COOPERL Brittany pig farmers cooperative - Recycling manure to energy and fertilisers <b>Tim Hendrixx</b> - Paques - Operational experience with P, N and organics recovery and various outlets for the recovered products <b>Marco Bonetti</b> - European Commission DG Environment - Status of the Consultative Communication on the Sustainable Use of Phosphorus
	Questions and discussion
15h15-15h45	Break
15h45-17h00	Final plenary
	Final panel discussion
	Conference conclusions by the European Sustainable Phosphorus Platform (ESPP) and Baltic Sea Action Group (BSAG)

## Wednesday 13 June

8h30 – 15h00	<p>Site visits will be arranged at three locations, which are:</p> <ol style="list-style-type: none"> <li>1. Kemira Research Center in Espoo</li> <li>2. Yara Kotkaniemi Research Station</li> <li>3. Helsinki Region Environmental Services HSY sewage works – RAVITA process.</li> </ol> <p>The visits will start on Wednesday around 09h00 and will end by 15h00. The conference participants will receive more information on the sites and will be able to choose, which of them to visit.</p>
--------------	---

**Programme 3rd European Sustainable Phosphorus Conference 2018**  
**Helsinki, Finlandia Hall, 11-13 June [www.phosphorusplatform.eu/ESPC3](http://www.phosphorusplatform.eu/ESPC3)**



Knowledge grows

Programme ESPC3 – version 11/04/2018