

4th European Sustainable Phosphorus Conference (ESPC4)

with Nutrient Recovery Technology Fair
and 5th European Phosphorus Research Meeting (PERM5)
20 – 22 June 2022, Vienna Austria - and online (hybrid)

Andaz Vienna Am Belvedere (Hyatt), Arsenalstrasse 10, Vienna, Austria.

v12/1/2022 Programme updates and registration <https://phosphorusplatform.eu/espc4>



ESPC4 – Day 1 - Monday 20th June 2022

9h00 – 10h15 – Plenary - Opening and keynotes – Climate, nutrients and eutrophication

- Ⓟ Climate, energy, agriculture: What has to be done about phosphorus and nutrients?
Franz Josef Radermacher, Research Institute for Applied Knowledge Processing (FAWn), Germany
- Ⓟ Interactions between climate change, phosphorus losses and eutrophication:
Wenfeng Liu, China Agricultural University.

10h15 – 11h00 – break – posters – stands - Tech Fair - networking

11h00 – 12h45– Plenary – EU, regional, national and city phosphorus policies

- Ⓟ What the Green Deal means for EU policies on nutrients
Virginijus Sinkevičius European Commissioner for Environment
- Ⓟ Implementation of Germany's 2017 P-recycling regulation and of Switzerland's 2016 P-recycling regulation: **Sibylla Hardmeier, Swiss Federal Office for the Environment (BAFU): Overview of developments, case studies**
- Ⓟ Implementation of Germany's 2017 P-recycling regulation:
Andrea Roskosch, German Federal Environment Agency (UBA)
- Ⓟ Case study Switzerland: **Leo Morf, AWEL Zürich**
- Ⓟ Vision for implementation of the German P-recovery obligation by a regional water operator:
Uli Paetzel, Emschergenossenschaft and Lippeverband
- Ⓟ Case study Switzerland: **Leo Morf, AWEL Zürich**
- Ⓟ Perspectives for nutrient policy and action for the Baltic, **Lotta Ruokanen, HELCOM**
- Ⓟ Towards national phosphorus recycling policy in Austria: **Arabel Amann, TU Vienna**
- Ⓟ Case study: Vienna City (5th), **Florian Huber, Vienna City Administration, with Wien Energie**

14h15 – 15h45 – Parallel sessions

List of speakers currently pending confirmation

- ← **Nutrient recovery operating experience technology showcase**
(companies in ESPP-DPP-NNP Nutrient Recovery [Technology Catalogue](#))
Moderator/rapporteur: Karyn Georges, Isle Utilities & Bertrand Vallet, Eureau
- ← **Phosphorus recovery from ashes**
Moderator/rapporteur: Paulo Pavinato, University of São Paulo & TBD
- ← **Biochars and hydrothermal carbonisation**
Moderator/rapporteur: TBD & TBD

16h30 – 17h45 – Business perspectives for nutrient sustainability

- P Reports from parallel sessions, questions and discussion
- P Business vision statements from nutrient sustainability leading companies
Jean-Christophe Ades, Kemira
Matt Kuzma, Ostara
Wim Moerman, NuReSy
José María Gómez Palacios, Biomasa Peninsular
Henk Aarts, N2 Applied
Hubert Halleux, Marc Sonveaux, Prayon
Marina Ettl, Yara
Matthias Staub, Veolia
- P The fertilisers industry, phosphorus sustainability and the Green Deal
Jacob Hansen, Fertilizers Europe
- P Market perspectives for phosphate fertilisers and other uses of phosphorus, and place of recycling:
Alberto Persona, Principal Analyst Fertecon/HIS

19h00 Evening networking event:

Vienna City Town Hall festivities hall (Rathaus Festsaal)

30'' by metro, 50'' by foot from Andaz hotel.

19h00 Pre-dinner drinks. 20h00 Conference dinner, Viennese music interlude.

22h00 Big John Whitfield & The Vienna Soul Society



ESPC4 – Day 2 - Tuesday 21st June 2022

9h00 – 10h30 – Plenary - EU Policies

- P Implementation of the nutrient loss reduction target set by the Green Deal Farm-to-Fork and Biodiversity Strategies: European Commission, DG Agriculture (tbc)
- P Phosphorus and Organic Farming productivity, Green Deal targets for Organic Farming and perspectives for recycled nutrients
- P Business vision statements from nutrient sustainability leading companies
- P Update on EU water policies, *Michel Sponar, Deputy Head of Unit, Marine Water and Water Industry, European Commission DG Environment*
- P Industry innovation in phosphorus chemistry and sustainability perspectives: *Clariant*
- P Towards an integrated EU approach, the proposed INMAP (EU Integrated Nutrient Management Action Plan).
European Commission DG Environment

11h15 – 12h45 – Parallel sessions

List of speakers currently pending confirmation

- ← **New fertilisers for nutrient sustainability**
Moderator/rapporteur: Alzbeta Klein, International Fertilizer Association & Hans Ingels, Head of Unit Bioeconomy – Chemicals – Cosmetics, European Commission DG GROW
- ← **Emerging nutrient recovery technologies**
Moderator/rapporteur: TBD & TBD
- ← **Policies and regional actions for phosphorus sustainability**
Moderator/rapporteur: Lukas Egle, European Commission JRC (Joint Research Centre) & TBD

14h15 – 15h30 – Plenary – Visions and Actions

- P Reports from parallel sessions, questions and discussion
 - P Vision statements from ESPC4 sponsors
Christian Kabbe, EasyMining
Wolfgang Hofmair, Borealis Group
- Experience and future objectives of the nutrient platforms in Europe and worldwide
- *Chris Thornton, European Sustainable Phosphorus Platform (ESPP)*
 - *Matt Scholz, Arizona State University US Sustainable Phosphorus Alliance*
 - *Jacob Jones, North Carolina State University, for STEPS (US National Science Foundation's new Convergence Research Center for Phosphorus Sustainability)*
 - *Eiji Yamasue, Ritsumeikan University, Japan Phosphorus Industry Development Organisation (PIDO)*
 - *Tabea Knickel, German Phosphorus Platform (DPP)*
 - *Nathalie Tijdink, Netherlands Nutrient Platform*

16h00 – 17h00 – Plenary – Perspectives and Conclusions

- Perspectives for global nutrient management and 'Our Phosphorus Future'
Mahesh Pradhan, United Nations Environment.
- Horizon Europe Mission "Soil Health and Food"
- Panel discussion on perspectives for phosphorus sustainability policies

Tuesday evening social event:

TBC 19h00 – 22h00 The Third Woman – NESTERVAL City Adventure
inspired by the 1949 Movie "The Third Man"

Wednesday 22nd June 2022

- P **Optional excursion:** Vienna municipal sewage treatment works, new sewage sludge incinerator, urban vegetable farmers using waste heat from sludge incinerator. **Max. 80 participants.** Free.
- P **5th Phosphorus in Europe Research Meeting (PERM5):** 9h00 – 16h30, Andaz Vienna Am Belvedere (Hyatt). Programme <https://phosphorusplatform.eu/esp4> NOTE: additional registration fee required.
- P **Young scientists and R&D networks event:** 17h – 18h30 and Wednesday evening social.