

# 2015 BERLIN

European Sustainable  
Phosphorus Conference  
Programme

**NOTE** certain speakers  
are invited and not yet  
confirmed to date

[www.phosphorusplatform.eu/espc2/](http://www.phosphorusplatform.eu/espc2/)

5<sup>th</sup> & 6<sup>th</sup> March 2015  
Berlin

## European Sustainable Phosphorus Conference 2015 Taking P to the next level!

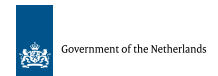
Moderator: **Sonja van Rensen** (freelance journalist Climate, Energy & Environment)

Venue: **Scandic Berlin Potsdamer Platz, Gabriele Tergitpromenade 19, D-10785 Berlin, Germany**

Following the successful first edition of the ESPC (European Sustainable Phosphorus Conference) in Brussels in 2013, and the launch of the European Sustainable Phosphorus Platform, Berlin this March will be the stage for ESPC2. Leading experts and decision makers in the field of phosphorus management will come together to exchange knowledge and experiences and take action. Join us for two days of inspiration and motivation in taking P to the next level!

The conference will showcase phosphorus management success stories and business cases, with presentations and parallel sessions covering the themes below, and working round-tables to enable participants to meet and discuss joint actions and projects.

The organizers would like to thank the following organisations for their substantial financial support of the conference:



## Plenary opening session

09:00 - 09:10	<b>Intro/Welcome</b> <ul style="list-style-type: none"> <li>• Short welcome from conference organisers</li> <li>• Introduction of moderator Sonja van Renssen</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Stefan Gäth</b>, Executive manager of the German Phosphorus Platform</li> <li>• <b>Arnoud Passenier</b>, President of the European Sustainable Phosphorus Platform ESPP</li> </ul>
09:10 - 09:30	<ul style="list-style-type: none"> <li>• Germany's approach to phosphorus as a Critical Raw Material (ProgRes 2.0)</li> <li>• German policy on phosphorus recycling from sewage</li> <li>• Taking knowledge into implementation.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Florian Pronold</b>, Parliamentary State Secretary for the Environment (BMUB)</li> </ul>
09:30 - 09:40	<ul style="list-style-type: none"> <li>• Länder actions on sustainable phosphorus and circular economy</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Martin Kneisel</b>, Ministry of the Environment, Climate Protection and the Energy Sector Baden- Wuerttemberg</li> </ul>

## What since 2013?

09:40 – 10:00	<ul style="list-style-type: none"> <li>• Why the Netherlands are committed to support P sustainability in Europe and worldwide – Netherlands a frontrunner in innovation</li> <li>• Why a European Sustainable Phosphorus Conference</li> <li>• Outcomes of the first European Sustainable Phosphorus Conference (2013): conclusions, actions since</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Wilma Mansveld</b>, via video Netherlands Ministry for the Environment</li> </ul>
10:00 – 10:20	<ul style="list-style-type: none"> <li>• EU work on the sustainable use of phosphorus</li> </ul>	<ul style="list-style-type: none"> <li>• <b>EC DG Environment</b></li> </ul>
10:20 – 10:40	<ul style="list-style-type: none"> <li>• The role of the commission for the transfer of research into innovation</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Luisa Prista</b>, EC DG Research &amp; Innovation</li> </ul>

- 10:40 – 11:00
- Phosphorus sustainability in Europe's leading agriculture exporting country
  - Brittany's experience in sustainable processing and reuse of manure in France's productive agricultural regions
  - **Stéphane Le Foll**, French Minister for Agriculture

11:00 – 11:30 Press conference and Coffee break in exhibition and poster area

### Success stories

- 11:30 – 12:30
- **Rosanna Kleemann (UK)**, Thames Water Utilities, Struvite recovery from wastewater
  - **Alexander Schitkowsky (DE)**, Berlin Water, Berliner Pflanze – A value chain from production to market
  - **Cecilia Bertholds (SE)**, Käppala WWTP, Sewage biosolids reuse in agriculture
  - **Philippe Becquet, (CH)**, DSM, development of phytase in animal feed
  - **Xiangyang Chen (CN)**, Tianshui Sweetest Apples Company, Urine use in fruit production
  - **Violtje Lebuf VCM (BE)**, Manure management in Flanders
  - **WWF**, Baltic farmers prize (video)
- 8 - 10 success stories x 5 mins each*

12:30 – 13:00 Panel discussion of success stories and Q&A. Panellists = the success story presenters

13:00 – 14:00 Lunch in restaurant

## Parallel sessions I

14:00 – 15:30

1 ½ hours

= 3 x 15" talks

plus 45"

discussion

### **P in the environment – Reducing phosphorus losses: big returns on big investments**

Actions and projects addressing eutrophication, river, coastal and marine eutrophication

Marine conventions and watershed management

Success stories in eutrophication restoration

Opportunities for nutrient recovery from eutrophic ecosystems

Solutions for farm level nutrient management and soil erosion prevention

- **Mathias Bergman** (FI), Baltic Sea Action Group: Cost efficient and profitable ways to counteract eutrophication
- **Beata Jurga** (PL), Institute of Soil Science and Plant Cultivation, Polish P index
- **Peter Leinweber** (DE), Rostock P Campus,
- **Kuno Kasak** (EE), Univ. of Tartu (Estonia) Prevention of P losses from agriculture

- Moderator: **Brian Ervine**, Dept. Agriculture Northern Ireland (DARDNI)
- Rapporteur: **Rostock P Campus**

### **P from farm to fork – Phosphorus sustainability and innovation in the agricultural supply and the food industry**

- **Will Brownlie** (submitted) meat in diet and P sustainability

- Agrifirm Netherlands

- Sustainability Consortium [www.sustainabilityconsortium.org](http://www.sustainabilityconsortium.org)

- Moderator: **Rainer Schnee**, Budenheim
- Rapporteur: tbc

### **Phosphorus, global food security, planetary boundaries**

#### **Geopolitical issues, international cooperation, global nutrient governance**

- International Agri-Food Network [www.agrifood.net](http://www.agrifood.net)

- **Felix Ekardt**, P Science Campus Rostock

- **Tim Benton**, UK Champion for Global Food Security

- OCP

- **Arno Rosemarin**, SEI Stockholm Environment Institute

- **Helena Kahiluoto**, LUKE Natural Resources Institute Vantaa

- Moderator: **Lapland Region**
- Rapporteur: **Kimo Van Dijk**, Wageningen UR

15:30 – 16:00 Coffee break

## Parallel sessions II

16:00 – 17:30

1 ½ hours  
 = 3 x 15" talks  
 plus 45"  
 discussion

### Agricultural phosphorus efficiency and sustainable intensification

- **Allan Buckwell**, RISE = sustainable intensification
- **Debbie Mc Connell**, ECIP European Cattle Innovation Partnership (see SCOPE 109)
- **Javier Brañas Lasala**, Fertiberia

- Moderator: **COPA\*COGECA**
- Rapporteur: **IEEP**

### Skill development for closing the P cycle

After a brief presentation that sets the scene of the skill development challenge related to greening the economy and establishing a circular economy, participants will be split in small groups to discuss how to translate this general skill development challenge to « skill development for closing the phosphorus cycle ».

- **Sofie Bouteligier**, OVAM (and on behalf of OECD)

- Moderator: **Stefan Gäth**, DPP
- Rapporteur: **Sofie Bouteligier**, OVAM

### Regions implementing sustainable phosphorus management

National & regional sustainable P policies

- CCME/Ontario Canada
- **Anders Nättorp**, Switzerland
- **Linda Bagge**, Danish EPA

- Moderator: **Diane Duncan**, Scotland – Highlands and Islands Enterprise
- Rapporteur: **Anders Nättorp**, FHNW

17:30 – 19:00 Network drinks in exhibition and poster area – Possibility of side-sessions for company presentations

17:30 – 18:30 **Announcement of establishment of the German Phosphate Platform (DPP) as a not-for-profit association (eV)**

19:00 – 22:00 Network dinner at Scandic Hotel

Dinner speech by MEP – tbc

## Theme discussions

- 8:30 – 10:00 **Tables with c. 15 participants**, enabling people to meet and discuss different themes face-to-face and allowing contacts between suppliers and users of expertise, technology, recycled phosphorus products.
- 10:30 – 12:00 Each table lasts 1 ½ hours then participants move to a new table and same themes are discussed by new participants  
 3 oral presentations x 5 mins max. No beamer, but presenters can distribute photocopies of slides, then discussion  
 Presenters make their talk twice, to two tables of different participants.

	Topic	Short oral intro speakers	Rapporteur	Moderator & convenor
1	<b>Awareness raising</b>	<b>Marissa de Boer</b> , SUSPHOS Video project	<b>Marissa de Boer</b>	<b>Annemiek Strijker</b> , NWP
2	<b>Legal and economic policy options to foster sustainable nutrient management in Europe</b>	<b>Felix Ekardt</b> , FNK, Leipzig / P Campus Rostock <b>Sirja Hukari</b> , FHNW/P-REX policy brief	<b>Stephen Hinton</b> , SSEF (Swedish Sustainable Economy Foundation)	<b>Francesco Presicce</b> , EC DG ENV
3	<b>Bridging the gap between recovery and recycling</b>	<b>Christian Kabbe</b> , Value chains and the eMarket for recovered nutrients <b>Jan Neuber</b> , Otto A. Müller Recycling	<b>Dirk Halet</b> , VLAKWA (Flanders Knowledge Center Water)	<b>Christian Kabbe</b> , P-REX/KWB
4	<b>Perspectives for biological nutrient removal in municipal wastewater and synergy with P recovery</b>	<b>Bernd Heinzmann</b> , Berliner Wasserbetriebe Marc Van Loosdrecht – Beyond ANAMMOX and where does that leave P-recovery?	<b>Wouter de Buck</b> Dutch NP	<b>Christian Schaum</b> , IWA RR group
5	<b>Nutrient recycling in composts and digestates</b>	<b>Fabrizio Adani</b> (Milano) <b>Adrie Veeken</b> (ECN) fertiliser value of digestates	<b>Nico Vanaken</b> OVAM	<b>Stefanie Siebert</b> , ECN
6	<b>Sustainable manure management</b>	<b>Adeline Haumont</b> – AILE France <b>Tarja Haaranen</b> – Ympäristö – from manure to fertilizer factory	French Pork Innovation Centre	<b>Violtje Lebuf</b> , VCM

Topic	Short oral intro speakers	Rapporteur	Moderator & convenor
7 <b>Recovering nutrients in biorefineries and biofuels production</b>	<b>Mette Dam Jensen</b> , Krüger – Denmark biorefinery concepts	<b>Eric Liégeois</b> , EC DG GROW	<b>Erik Meers</b> , Biorefine
8 <b>Nutrient and energy recovery from chicken manures, animal residues</b>	<b>Michael D'Arcy</b> , BHSL, Ireland <b>Gregory Krupnikovs</b> <b>Edward Someus</b> , Terra Humana/Refertil	<b>Emilie Snauwaert</b> , VCM	<b>Ludwig Hermann</b> , Outotec
9 <b>Nutrient recycling in organic farming</b>	<b>Michael Jedelhauser</b> , Ludwig Maximilians Univ., acceptance of recycled P by organic farmers <b>Ola Palm JTI</b> , food waste P for agriculture with full acceptance	Bioland e.V.	<b>Stephanie Fischinger</b> , Bioland e.V.
10 <b>White Phosphorus – a strategic raw material and an opportunity for P recycling?</b>	<b>Carlos Galeano</b> , Phos4Ever User industries	CRU (organisers of the Phosphates 2015 etc. industry conferences)	<b>Willem Schipper</b> , WSC
11 <b>Phosphorus efficiency, what does it mean</b>	<b>Cathal Buckley</b> , TEAGASC, Ireland, P efficiency in 150 N Ireland farms	<b>Laetitia Six</b> , Fertilizers Europe	<b>Antoine Hoxha</b> , FE
12 <b>Plant availability of recovered P products</b>	<b>Bengt Hansen</b> , Kemira, long term availability of iron phosphate <b>Ruben Sakrabani</b> , Cranfield Univ., plant availability of struvite and recovered phosphates	tbc	<b>Chris Dawson</b> , IFS



Topic	Short oral intro speakers	Rapporteur	Moderator & convenor
13 <b>Research integration and implementation agenda for P sustainability – what process to define one (NOT defining research priorities, but method to define them)</b>	<b>John Ingram</b> , Oxford University, Priority research questions for the UK food system <b>Sylvain Pellerin</b> , INRA France, Trends in Phosphorus research over the last four decades – a bibliometric analysis 2013	<b>Tomáš Turecki</b> , EC DG Research & Innovation	<b>Suzanne Faber</b> , Isle Utilities
14 <b>Financial instruments to foster sustainable nutrient management</b>	European Investment Bank	EIB	European Investment Bank (EIB)
15 <b>Sound data alliance – MFAs, MSAs, nutrient flow analyses – data, action hotspots, criticality</b>	Charles Univ. Prague, EU MFA underway on phosphate <b>Marijn van der Velde</b> , JRC, monitoring and modelling	European Environment Agency	<b>Kimo van Dijk</b> , Wageningen UR
16 <b>LCA methodology aspects</b>	Joana Rocha, Chemical Institute, Prague, Czech Republic	tbc	<b>Christian Remy</b> , P-REX
17 <b>Phosphorus resources, supply and demand</b>	<b>Roland Scholz</b> , Global TraPs, stakeholder data needs <b>Arno Rosemarin</b> , Stockholm Environment Institute	<b>Rob de Ruiter</b>	<b>Roland Scholz</b>
08:30 – 12:00	<b>Closed session</b> Working meeting for ESPP members producing or using struvite. REACH (art 2(7)d) registration exemption for recovered substances), waste / product status, elaboration of struvite quality and safety criteria to propose for consideration in the EU Fertiliser Regulation		
12:00 – 13:00	Lunch in restaurant – conclusions of tables on paperboards in exhibition area		

**International perspective**

13:30 – 13:50	A success story of international cooperation (EU countries plus Russia) to protect and restore the Baltic	<b>Monika Stankiewicz</b> , HELCOM (Baltic Sea Commission)
13:50 – 14:10	Global policy experience with nitrogen: INI, Our Nutrient World, UN GPA ... why not also phosphorus?	<b>Will Brownlie</b> on behalf of <b>Mark Sutton</b> , CEH / INI (International Nitrogen Initiative)
14:10 – 14:30	P sustainability research coordination and emerging networks: a North American view	<b>Helen Rowe</b> , NAPPS (North American Partnership for Phosphorus Sustainability)

## Conclusions from sessions, contributions from workshops

14:30 – 14:45	Presentation of conclusions of R&D projects workshop (4th March) by DG Research and how this can fit into H2020 and DG Research orientations	<b>Tomáš Turecki</b> , EC DG Research & Innovation
14:45 – 15:00	Young scientists' vision	1-2 young scientists
15:00 – 15:45	Presentation of key conclusions of parallel sessions = 6 x 5 mins	tbc
15:45 – 17:00	<b>Panel – questions – discussion – conclusions and outcomes</b> Questions: <ul style="list-style-type: none"> <li>• what are the priority areas: social, food, farm, efficiency, eutrophication, reuse /recycling...?</li> <li>• what policies?</li> <li>• what structures for action?</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Max Schulman</b>, MTK/ Copa-Cogeca</li> <li>• <b>Eric Liégeois</b>, EC, DG GROW</li> <li>• <b>David Sears</b>, EESC</li> <li>• <b>Mika Saariaho</b>, Outotec</li> <li>• <b>Luc Bossyns</b>, Aquafin</li> <li>• Greenpeace</li> <li>• Food industry/retail</li> <li>• <b>Jacob Hansen</b>, Fertilizers Europe</li> </ul>
17:00 – 17:15	Closing statement	<b>Janez Potočnik</b> , UNEP
17:15 – 17:30	Acknowledgements. Messages and actions. ESPC3 and Closure.	<b>Arnoud Passenier</b> , ESPP

## “Circular approaches to phosphorus: from research to deployment”

**Workshop organised by the European Commission DG Research & Innovation, the European Sustainable Phosphorus Platform and the P-REX project**

Venue: Federal Institute for Materials Research and Testing (BAM), Unter den Eichen 87, D-12205 Berlin

- 09:00 – 13:00
- Presentation of EU-funded phosphorus recycling and recovery R&D projects
  - Round-table of other projects in this area

- 14:00 – 17:15
- Workshop discussion on ‘Research and Demonstration Needs’
  - Round table on ‘Barriers and pre-conditions for deployment’
- Moderators: **Erik Meers**, BioRefine Cluster,  
**Suzanne Faber**, Isle Utilities UK

**Participation by invitation only!**

## Site visit: Berlin Water WWTP Wasmannsdorf P-recycling from sewage (struvite recovery)

**Site visit limited to 20 participants.**

Starting point 1 p.m. with shuttle at Headquarter of „Berliner Wasserbetriebe“, Judenstraße 1, 10179 Berlin (10 minutes from Alexanderplatz or via subway (U2 direction Ruhleben, station Klosterstraße). Return from Wasmannsdorf at 4:30 p.m.