

**HELSINKI**  
**11-13 June**  
**2018**



**European**  
**Sustainable**  
**Phosphorus**  
**Conference**

# Speakers



**Karmenu Vella**

Commissioner for Environment,  
Maritime Affairs and Fisheries,  
European Commission



**Petteri Taalas**

Secretary General - World  
Meteorological Organization,  
Ph.D. in Meteorology



**Jonathan D. Trent**

UpCycle Systems,  
University of California Santa  
Cruz



**Jan Vapaavuori**

Mayor, City of Helsinki



**Jaana Husu-Kallio**

Permanent Secretary at the  
Ministry of Agriculture and  
Forestry of Finland



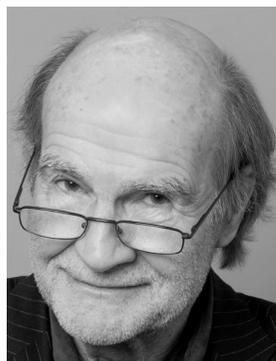
**Sirpa Pietikäinen**

Member of the European  
Parliament



**Saara Kankaanrinta**

Chairman of the board,  
co-founder  
Baltic Sea Action Group



**Ludwig Hermann**

President European Sustainable  
Phosphorus Platform ESPP



**Matt Scholz**

Program Manager  
Sustainable Phosphorus Alliance



**Elisabeth Bömcke**

Agriculture Policy Advisor  
Fertilizers Europe



**Tabea Stötter**

International Commission for the  
Protection of the Rhine (ICPR)



**Sonja van Rensen**

Conference moderator  
Freelance energy, climate and  
environment journalist



## Karmenu Vella

### **Commissioner for Environment, Maritime Affairs and Fisheries, European Commission**

Karmenu Vella has been Commissioner for Environment, Maritime Affairs and Fisheries since 2014. Prior to that, Mr. Vella was Minister for Tourism and Aviation of Malta from 2013 until 2014. From 2010 until 2013 he was Chairman of the Orange Travel Group and from 2008 until 2013 he was the Group Coordinator for the Labour Party Parliamentary Group. From 2008 until 2010 he was the Executive Chairman of Corinthia's Mediterranean Construction Co and from 2001 until 2007 the Executive Chairman of Corinthia Hotels International.

Mr. Vella has been Minister for different sectors of the Maltese government: Tourism Minister (1996–98), Industry Minister (1984–87), and Minister for Public Works (1981–83). Since 1976 he has been Member of the Maltese Parliament. Mr. Vella is of Maltese Nationality.

He earned a Bachelor's degree in Architecture and Civil Engineering and a Masters degree in Tourism Management.



## Petteri Taalas

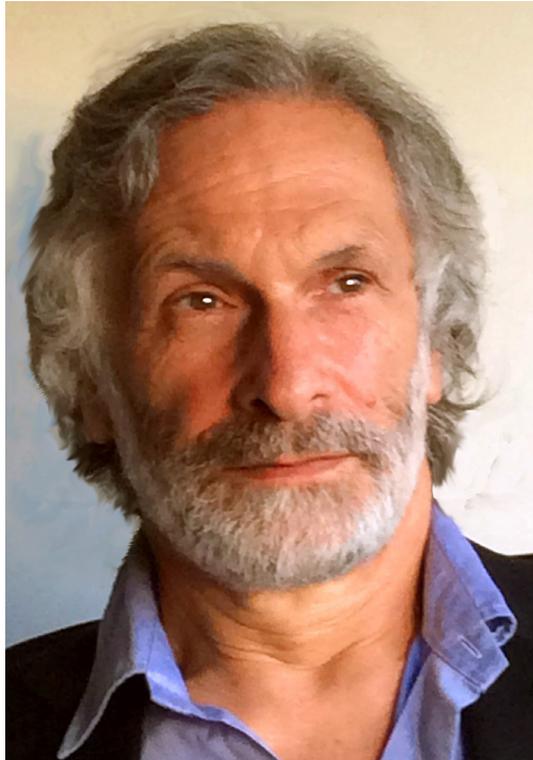
**Secretary General - World Meteorological Organization**  
**Ph.D. in Meteorology**

Climate change has already had a negative impact on global agriculture due to growing amount of extreme weather events, like drought, flooding, coastal inundation and higher evaporation. The sea ecosystems are affected by acidification, coral bleaching and changing ocean currents. Failure in implementation of the Paris Agreement poses a major threat for global nutrition, and lack of nutrients is a potential additional risk.

Director-General of Finnish Meteorological Institute 2002–2005, 2007–15.

Director of Development and Regional Activities department of WMO, Geneva 2005–2007.

Research professor on Remote Sensing/FMI 2000–2002. 50 peer reviewed publications on remote sensing, global change and atmospheric chemistry.



## Jonathan D. Trent

**UpCycle Systems, University of California Santa Cruz**

The UpCycle System focuses on up cycling the manure from pigs, cows, and chickens using anaerobic digesters to make biogas for electricity and heat as well as CO<sub>2</sub> and fertilizer, which are used to grow microalgae used to make feed for livestock and aquaculture. The strategy for implementing, monitoring, and controlling UpCycled Systems will be discussed.

Currently Mr. Jonathan Trent works as a Senior Scientist at NASA Ames Research Center, Adjunct Professor in BioMolecular Engineering at the University of California, Santa Cruz, and a Fellow of the California Academy of Sciences. He earned a PhD at Scripps Institution of Oceanography and conducted research at the Max Planck Institute for Biochemistry in Germany, Århus and Copenhagen Universities in Denmark, University of Paris at Orsay in France, Boyer Center for Molecular Medicine at Yale Medical School and Argonne National Laboratory in the USA.



## Jan Vapaavuori

**Mayor, City of Helsinki**

As the Mayor of Helsinki Mr. Vapaavuori started with building a City Strategy for 2017–2021 that focuses on being the most functional city in the world, including strong emphasis on modern climate responsibility, circular economy and innovation related to this. In whatever it does, Helsinki underlines ecological values and profiles itself as an internationally networked pioneering local implementer of global responsibilities. Also the urban environment has a strong focus in the Strategy: Helsinki cherishes its valuable wildlife and acts to increase the diversity of the urban natural environment, and the ecological quality, accessibility and health effects of green and blue areas will be ensured.

City of Helsinki has already for a decade implemented local Baltic Sea Action Plans and the Baltic Sea Challenge network initiative for reducing the loading of nutrients, hazardous substances and littering to the local waters, and for improving better city planning, construction and maintenance practices with wide networking and awareness raising.



## Jaana Husu-Kallio

**Permanent Secretary at the Ministry of Agriculture and Forestry of Finland**

Introduction to the nutrient circular economy policy in Finland. The view is from the Ministry of Agriculture and Forestry and the Finnish Government.

Since February 2012, Jaana Husu-Kallio has been the Permanent Secretary of the Ministry of Agriculture and Forestry of Finland. Since 2016 she has been a chair of the management board of European Food Safety Authority, a member since 2012.



## Sirpa Pietikäinen

### Member of the European Parliament

I will be discussing how to get from single-use to circular use of resources, and from wasting to saving nutrients. Resource efficiency is the single most important solution to address climate change. We need to manage the same level of production and welfare with a tenth of current resources and a tenth of current emissions. Only then would the level of our ambition be sufficient to begin to slow climate change and manage our use of natural resources within the means of our planet.

Sirpa Pietikäinen was a member of the high-level European Resource Efficiency Platform (EREP), contributing to the platform's manifesto and final policy recommendations that were published in March 2014. She is a shadow rapporteur for the European Parliament 2018 own initiative report on Sustainable Finance. She was also the European Parliament's Rapporteur for the Report on Resource Efficiency: moving towards a circular economy, adopted in July 2015.

She is a frequent key note speaker at various events on all aspects of the circular economy, and has authored various articles on circular economy, both for domestic and international publications.

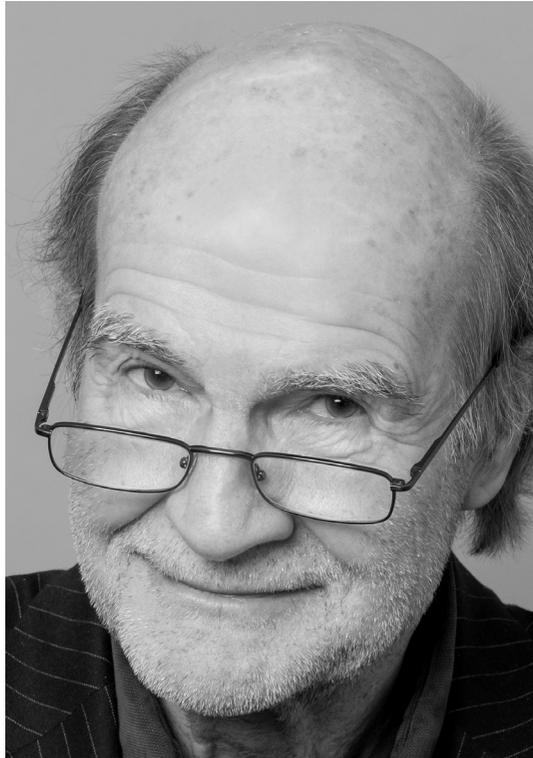


## Saara Kankaanrinta

**Chairman of the board, co-founder  
Baltic Sea Action Group**

BSAG shares a vision and a mission of a sustainable agriculture, including recycled nutrients and soil carbon sequestration. Agriculture and soil can help to curb the climate change and save the Baltic Sea – and support biodiversity.

I am a co-founder of BSAG foundation and Soilfood company. BSAG has catalyzed actions among decision makers, corporations and farmers for the Baltic Sea. I am an owner of two pilot farms where we combine science and practice in studying soil carbon sequestration and nutrient recycling methods. I am a member of a global advisory board for soil carbon sequestration, and a member of a steering group for circular economy of Finland.



## Ludwig Hermann

### **President European Sustainable Phosphorus Platform ESPP**

Ludwig Hermann delivers welcoming address and a brief introduction to the conference objectives and content.

Co-inventor and co-founder of ASH DEC Umwelt AG (2001), started developing the AshDec P-recycling technology in 2004 in cooperation with Federal Institute for Materials Research and Testing, Berlin. Worked 7 years for Outotec as technology and innovations manager focusing on P-recycling, sludge processing, phosphorus processing (mined and recycled materials) and energy efficiency in general.



## Matt Scholz

**Program Manager  
Sustainable Phosphorus Alliance**

Over a period of almost two years now, Dr. Jim Elser and I have been developing a North American analog to the European Sustainable Phosphorus Platform. I will be introducing the platform and providing an overview of some of its activities and resources to the group. I will also provide some context for the North American phosphorus situation.

Prior to this role, my work was in sustainability, though not with respect to nutrient management per se. I have a Master's in Environmental Engineering, and I conducted my PhD and postdoctoral work on the development of algal biofuel processes and the characterization/commoditization of algal biomass. After this, I worked as a Senior Research Scientist for The Sustainability Consortium where, among other activities, I developed supply chain sustainability metrics for Walmart and other retailers.



## Elisabeth Bömcke

**Agriculture Policy Advisor  
Fertilizers Europe**

The European fertilizer industry is committed to collaborating with all those involved in food production chains to increase the efficient use of nutrients and reduce the environmental footprint of food production. This is also why Fertilizers Europe is monitoring the use of mineral fertilizers since 1997. The presentation will aim to give some insight on how fertilization and nutrient management could be affected in the future by the various European legislations.

Before joining Fertilizers Europe in 2016, I was Technical Manager for Tradecorp Europe, a company producing and selling specialty fertilizers (micronutrients and biostimulants). I hold a university degree in Agricultural Sciences from the Gembloux Agricultural University (Belgium).



## Tabea Stötter

### **International Commission for the Protection of the Rhine (ICPR)**

The subject of my speech will be the success story of the Rhine River, especially the phosphorus reduction and ecological quality restoration. The work of the Rhine commission (ICPR) to manage the River Rhine and the ICPR programmes, like the Rhine Action Programme starting 1987, have led to a significant reduction of nutrients and the contamination with other substances. This success story was only possible thanks to the common effort in the whole Rhine catchment.

I am working for the International Commission for the Protection of the Rhine (ICPR) since March 2015. I have a PhD in Climate Sciences from the University of Bern and a MSc in Environmental Geosciences from the University of Basel.

In the ICPR I support the working groups dealing with water quality and emissions. Beside the general monitoring and warning systems these working groups of the ICPR are concerned with micropollutants, new ways of detection and contamination of biota.



## Sonja van Renssen

**Conference moderator**  
**Freelance energy, climate and environment journalist**

Sonja is the Brussels correspondent for Energy Post, an independent platform for European energy news and analysis that she helped found in 2013. She also writes for other publications such as Nature Climate Change, Platts, and ENDS Europe and was the environment correspondent for online broadcaster viEUws.eu from 2010-16.

Sonja regularly moderates high-level debates and conferences on energy, climate and environment. This includes the first two European Sustainable Phosphorus Conferences in 2013 and 2015, respectively, and other events on nutrient management and resource efficiency for organisations from Fertilizers Europe to WWF before and after.

Before going freelance in 2010, Sonja was the lead climate correspondent for environmental news service ENDS Europe for four years. She won a BBC-sponsored “Young Broadcaster of the Year Award” in 2005.

Sonja has an MSc in Science Communication from Imperial College London and a BA in Biological Sciences from the University of Oxford. She grew up in the Netherlands, Japan and Taiwan, and speaks fluent English and Dutch, with a good command of French and German.