



European Sustainable
Phosphorus Platform

In partnership /
supported by:



European workshop: Waste water phosphorus removal tomorrow: ambitions and reality

Date/place:

- **Wednesday 9th October**, Liège University (city centre, place du 20 août)
 - back-to-back to ECSM'19 (European Conference on Sludge Management), Liège 6-8 October 2019
- <https://events.uliege.be/ecsm2019/>

University of Liège (Salle Académique, bâtiment A1 central, place du 20 août

https://www.campus.uliege.be/cms/c_1756284/fr/campus-de-liege-centre-ville-zone-du-20-aout) is in Liège historic city centre, <30 mins walk (or <10 mins direct bus) from the rail station (Guillermains), which is 45 mins – one hour direct train from Brussels (Gare de Midi or Centrale) or from Brussels Airport ...

Objectives and content:

In the context of the current revision of EU water policy (Water Framework Directive, Waste Water Treatment Directive), enable dialogue between the water industry, experts and policy makers (EU, national) on perspectives for phosphorus removal:

- low discharge consents
- flexible permitting / emissions trading
- P-removal from small sewage works

Presentations:

Presentations will be **by water companies and sewage treatment operators (presenting results of trials on-site in real operating conditions and experience of operation in sewage works)** and by policy makers, with discussion with panels of experts.

Technology suppliers and RTD projects will be able to present their processes, innovation and research on stands during the day.

Target participants:

- Water companies and utilities, water boards
- Water treatment engineering companies
- Regulators and policy makers: national, regional, European
- Experts, consultants, researchers, stakeholders
- Technology suppliers: P-removal systems, P monitoring equipment ...

To propose a presentation or stand, and to pre-register: contact info@phosphorusplatform.eu



Outline programme

Tue. 8th October - evening (after ECSM) – **networking dinner**

Wed 9th October

9h00 – **three keynotes**, questions, discussion

- keynote – perspectives for phosphorus in the sewage works of the future – optimised energy and resource recovery – from the starting point of today's infrastructure
- keynote – why phosphorus is still critical for EU water quality objectives – progress made in half a century – significance of P in achieving WFD quality objectives across Europe
- keynote - EU water policy update – objectives and status – significance of phosphorus – European Commission (TBC)
- Questions and discussion

10h20 – 10h40 – break

10h40 – **low phosphorus discharge consents**

- Presentation of UK CIP2 trials – 20 different P-removal technologies tested full scale in sewage works – technology providers' claims of 0.1 mgP/l versus reality – which technologies performed best – overall conclusions taken from these trials by the UK regulator
- UK water company - experience of 1 - 2 of the technologies which showed best in the CIP2 trials – results in different operating conditions – challenges – pros and cons - perspectives
- Helsinki Region Environmental Services Authority: the road from 4 mgP/l to 0.1 mgP/l, optimising chemical precipitation, reliability and permitting
- Presentations of experiences from other water operators or utilities across Europe towards low P discharge consents
- Questions and discussions

13h00 – 14h00 lunch

14h00 – **Small sewage works, flexible permitting and emissions trading**

- Practical challenges of P-removal in small sewage works – onsite operators, equipment, monitoring & control, maintenance – costs per kg P removed
- UK water company – experience with catchment permitting with UK regulator – reducing total costs and addressing the small works challenge
- International sewage works operator (TBC) - overview of how permitting works in different countries in Europe (daily maximum, average, different sampling regimes ...) and what are the consequences for water operators and so for the tax payer/consumer
- Questions and discussion
- European Commission (TBC) – overview of relevant output from past/existing EU-funded R&D projects and perspectives for future funding, in particular to support policy objectives
- Panel discussion – what does it all mean for realistic regulation, costs, R&D and technology development – conclusions / where can we go from here and what actions are needed?
 - EUREAU
 - Isle Utilities
 - European Commission (TBC)
 - Kemira
 - researcher – TBC

16h00 – closure ESPP President