



stowa



Ministry of Infrastructure
and Water Management

Removal of Micropollutants from Wastewater – Results of the Dutch Innovation and Implementation Program

When: Wednesday November 8th, Thursday November 9th and Friday November 10th
Where: Aquatech Expo RAI, Amtrium, Entrance L, Europaplein 24, 1078 GZ Amsterdam
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The Dutch Water Partners are exploring innovative technologies for removal of micropollutants from municipal wastewater. Research has been carried out the past five years in an extensive Innovation Program, which was initiated by the Ministry of Infrastructure and Water Management and the Dutch Water Authorities and managed by STOWA. Through this Innovation Program the implementation of innovative full-scale installations to remove micropollutants will be fast-tracked. These technologies are promising because of reductions on CO2-footprint, costs or enhanced effluent quality in respect to proven technologies. In this three-day event we present a first sneak preview of ***the final results of the Dutch Innovation Pilot Program*** and ***the progress of full scale implementation***.

At the Aquatech Expo, the Dutch Approach on reducing the discharge of micropollutants into surface water is presented including technological challenges of implementation. Results of research of more than 15 technologies on demo and pilot scale will be presented. Furthermore research on how to measure the performance of these technologies will be presented with new and specific sampling and measurement methods.

PRELIMINARY PROGRAMME

Wednesday November 8th

- 10.00 – 10.30 Welcome with coffee/tea
- 10.30 – 11.30 Tackling removal of micropollutants: policy meets practice in implementation and innovation
- 11.30 – 12.30 Full scale implementation of Powdered Activated Carbon in Activated Sludge (PACAS)
- 12.15 – 13.15 Lunch
- 13.15 – 13.45 Overview performances innovative adsorption technologies: PAC, GAC and other materials
- 13.45 – 14.40 First results innovative pilot research Powdered Activated Carbon (PAC)
- 14.40 – 15.10 Coffee/Tea break
- 15.10 – 16.10 First results innovative pilot research Granular Activated Carbon (GAC)
- 16.00 – 16.30 First results innovative pilot research new fossil free materials
- 16.45 – 17.00 Closing day 1



Thursday November 9th

10.00 – 10.30 Welcome with coffee/tea

10.30 – 11.00 Overview performances innovative oxidative technologies including combinations

11.00 – 11.40 Full scale implementation of ozone

11.40 – 12.15 First results innovative pilot research: combinations of ozonation and activated carbon

12.15 – 13.15 Lunch

13.15 – 14.00 First results innovative pilot research: combinations of biological degradation and ozonation

14.00 – 15.00 How to measure the performance: an insight on the results of adapted analytical and sampling methods for the removal of micropollutants, PFAS, antibiotic resistance, biological effects, etc.

15.00 – 15.30 Coffee/Tea break

15.30 – 15.50 Quick scan removal of micropollutants through optimized natural systems

15.50 – 16.30 First results innovative pilot research on filtration of wwtp effluents combined with oxidation

16.30 – 16.45 Closing of the event

16.45 – 18.00 Drinks and bites

Friday November 10th

9.30 – 17.00 Bus excursion to full-scale plants in the Netherlands: PACAS plant wwtp Leiden Noord and Ozone plant wwtp Wervershoof (including experiments hall)

Registration

You are welcome to join one or more of these morning or midday sessions for free. Go to <https://www.stowa.nl/agenda/stowa-aquatech-removal-micropollutants-wastewater> for registration. For the bus excursion you have to register separately. A fee of 100 euro for attending the busexcursion has to be paid if you are not an employee of a water authority and in case of no-show.

PLEASE NOTE:

- For this event you must register also for the Aquatech EXPO, register your free visit at <https://www.aquatechtrade.com/amsterdam>
- Admittance to Sessions is not allowed after start-up.
- For lunch you must register (and attend) both morning and afternoon sessions. Admittance to lunch will be checked.

STOWA welcomes all other Dutch and International commercial or non-commercial parties, which have carried out research in the field of removal of micropollutants from municipal wastewater, to give a **POSTERPRESENTATION**, which participants can visit during the event. For more information on selection and presentation of posters please contact Mirabella Mulder of STOWA (mmulder@mirbellamulder.nl).