



ZeroPM

Special Symposium on PFAS elimination from Drinking Water

Including a Technology Demonstration event

Location: BadnerHalle, Kapellenstraße 20-22, 76437 Rastatt, Germany and the German Water Centre (TZW: DVGW-Technologiezentrum Wasser), Karlsruher Straße 84, Karlsruhe, Germany

Date: Wednesday 12th of June and Thursday 13th of June

The H2020 research project ZeroPM: Zero pollution of persistent, mobile substances would like to invite all interested stakeholders to a Special Symposium on PFAS elimination from Drinking Water including a Technology Demonstration Event

ZeroPM interlinks prevention, prioritization and removal strategies to protect the environment and human health from persistent and mobile substances. ZeroPM is developing technical solutions for water and sludge treatment with the goal of keeping the drinking water cycle clean.

The Special Symposium will provide water utilities, academics, policy makers and those working with remediation solutions, the opportunity to:

- Gain knowledge about how PFAS can be removed from drinking water,
- Visit the water works at Rastatt, Germany and see the remediation methods first hand,

The event does not have a registration fee. Buses will be provided to take participants to where they need to go. Details will be provided following the close of registration. An evening dinner will be included for Wednesday 12th of June. Participants will be responsible for the cost of travel to Germany, accommodation and their time

Recommended hotels:

- ibis Styles Rastatt Baden-Baden, Am Schlossplatz 1, 76437 Rastatt.
Please use the code “PFAS Symposium“ when booking
- Best Western Hotel Rastatt, Karlsruher Straße 29, 76437 Rastatt.
Please use the code “PFAS Symposium“ when booking
- Hotel Schwert, Herrenstraße 3a, 76437 Rastatt

For those flying, Frankfurt Airport or Baden Baden Airport are the closest to the venue location.

Registration

Please register here <https://chscxy8zrpd.typeform.com/to/VL8OpobY>

Registration closes on the 17th of May 2024

If you have any questions related to the event, please contact Sarah Hale sarah.hale@tzw.de



Acknowledgement

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Wednesday 12th of June

Lunch: 11.30 – 12.30

Location: BadnerHalle, Kapellenstraße 20-22, 76437 Rastatt

PFAS removal from water

12.30 – 12.45 **Welcome to the event**

Josef Klinger, TZW: DVGW-Technologiezentrum Wasser, Olaf Kasprzyk, Stadtwerke Rastatt

12.45 – 13.10 **The treatment of PFAS contaminated water**

Marcel Riegel, TZW: DVGW-Technologiezentrum Wasser

13.10 – 13.35 **State of the art treatment using granular activated carbon and reactivation**

Marco Müller, Donau Carbon

13.35 – 14.00 **Lewatit® ion exchange resins for PFAS remediation: Challenges and removal**

Dirk Steinhilber, Lanxess

14.00 – 14.25 **ZeroPM treatment approach: Two step treatment with activated carbon and regenerable anion exchanger**

Lukas Lesmeister, TZW: DVGW-Technologiezentrum Wasser

14.25 – 14.50 **Handling a PFAS groundwater contamination – from a water utility's point of view**

Olaf Kasprzyk and Lorena Rodriguez, Stadtwerke Rastatt

15.00 – 16.00 Hotel check in or free time

16.00 – 18.00 Technology demonstration at the Rauental waterworks

Buses will depart from the BadnerHalle at 16.00 to take participants to the waterworks for a guided tour. Activated carbon filtration is used to remove PFAS at the waterworks in Rastatt-Rauental. The treatment facility was installed in 2018 to combat the huge PFAS contamination in the surrounding area due to the application of contaminated biosolids (many people know this as the Rastatt case). Furthermore, pilot plants using activated carbon and / or ion exchange are currently installed at the waterworks.

Buses will depart from the waterworks at 18.00 to take participants back to the dinner venue.

18.30 – late Evening dinner

Contacts



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Thursday 13th of June

Participants will be collected from their hotels and taken to TZW in Karlsruhe. The journey takes around 45 minutes. Please refer to the list of recommended hotels as the bus will be stopping to collect people at these hotels.

The problems with PFAS

- 09.15 – 09.30 **An introduction to the PFAS problem and ZeroPM's approach to solve it**
Sarah Hale, TZW: DVGW-Technologiezentrum Wasser
- 09.30 – 09.55 **PFAS occurrence and monitoring – insights from the NORMAN network**
Ian Allan, The Norwegian Institute for Water Research (NIVA)
- 09.55 – 10.20 **PFAS contamination in the area around Rastatt and Baden-Baden**
Joshua Walter, District Office Rastatt, PFAS Secretariat
- 10.20 – 10.45 **PFAS and sewage treatment plants: point sources and process modification**
Nasos Stasinakis, University of the Aegean

Coffee break

Further PFAS removal from water

- 11.30 – 11.50 **PFAS destruction by electrochemical oxidation in drinking water**
Barbara Behrendt-Fryda, Condias
Lara Stelmaszyk, TZW: DVGW-Technologiezentrum Wasser
- 11.50 – 12.10 **PFAS adsorption on electrically stimulated activated carbon**
Anett Georgi, UFZ-Department Technische Umweltchemie, Leipzig
- 12.10 – 12.30 **Sustainable, effective and validated treatment methods for PFAS contaminated waters**
Helena Hinrichsen, Envytech and the SCENARIOS research project
- 12.30 – 12.50 **PFAS elimination with alternative adsorption materials – laboratory results from the PROMICES research project**
Fiona Rückbeil, Berliner Wasserbetriebe
- 12.50 – 13.10 **Field scale PFAS removal case studies – site specific media selection and system design**
Ronit Erelitzki, Chart Industries
- 13.10 – 13.30 **Take home messages, and close of symposium**
Marcel Riegel, TZW

13.30 – 14.30 Lunch

14.30 – 15.30 Tour of TZW analytical and technical labs

15.30 End of event and transport to train station by taxi (paid for by participants). Trains depart to Frankfurt Airport.



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