

Danish Water Forum 17th Water Research Conference

Date: 8 February 2023

Venue: Grundfos Event Hall, Poul Due Jensens Vej 23, 8850 Bjerringbro

EVENT-SPONSOR: GRUNDFOS

Welcome to our 17th conference. Key focus will be on PFAS with both a wider perspective in the morning and with technical sessions in the afternoon, presenting +35 papers.

Time	Topic
09.30	Registration (Coffee-Tea)
10.00	Opening of the conference; Jesper Goodley Dannisoe, DWF secretariat, and Peter E. Holm, DWF Vice-chair
	Plenum presentation: PFAS; Fate and Future
	PFAS is one of the most discussed chemicals recently and the morning plenum session will put focus on the chemical, where it comes from, health aspects and how the chemical and all its derivatives are moving into the legislations. PFAS, which is the overall name given to +1000 different derivatives, is used intensively in a wide range of industries and therefore not easy to substitute: It is in our homes, in our cars, in our mobile phones and unfortunately also in our food!!
10.15	Cleaning of “the forever chemical” in water - perspectives and priorities, Rikke Markfoged, TI
10:35	PFAS in the treatment plants, Nikolaj Mikkelsen, Kalundborg Utility
10:55	PFAS: Technology Horizon Scan & Global Best Practices Study, Lauren Former, Isle Utilities
11:15	Health aspects of PFAS, Susanne Hougaard Bennekou, Danish Patient Safety Authorities (online)
11:35	EU action on PFAS; Joannes Gaard, Danish Ministry of Environment.
12.00	Lunch break
13.00	Start of technical sessions (parallel start): See below
16:30	Drinks and Award Session
17:15	The conference closes

EVENT HALL		
13:00	SESSION 1: PFAS, Fate and treatment: Ida Holm Olesen, Novafos, DWF Board	
13:00	Jan-Max Arana Juve	Size-selective trapping of PFOA in Fe-modified zeolite framework photocatalysts
13:15	Allyson L. Junker	Photocatalytic Membranes for PFAS Removal
13:30	Junying Wen	Comparison of photo-degradability of legacy and emerging PFAS in water
13:45	Sabine Lindholst	How to effectively reduce PFAS discharge – possibilities and challenges
14:00	Dhruv Sharma	LCA of waste handling technologies for PFAS
14:15	Dorte Harrekilde	Remediation technologies for PFAS in groundwater – an overview
14:30-	COFFEE BREAK	

EVENT HALL		
15:00	SESSION 2: Resource recovery from waste water: Ole Mark, Krüger, DWF Board	
15:00	Rune Dall Harpøth	Development of model for optimizing biogas production and reducing methane emissions
15:15	Brian Rosenkrantz Jensen	Integrated steam-drying and pyrolysis of biosolids
15:30	Dennis Severin Hansen	Experiments on Chinese Cabbage Growth and Soil Conditions by Amendment of Sewage Sludge Produced Biochar at Different Temperatures
15:45	Trine Dalkvist	Digital Twins for Water Resource Recovery Facilities (WRRFs) – Lessons learned from full-scale applications
16:00	Jonathan Guld Christensen	ReUse: Re-utilization of Resources from Industrial Waste Streams
16:15	Tanzila Sharke	Selective recovery of phosphorous using activated carbon material impregnated with iron oxide and (electro)chemical regeneration of sorbent active sites
16:30	END OF SESSION	

ROOM 1		
13:00	SESSION 3: Removal of organic micropollutants and toxicity. Chair: Peter E. Holm, Vice-chair DWF	
13:00	Yrsa Larsson	Removal of quaternary ammonium biocides in wastewater treatment - biodegradation, metabolites and sorption
13:15	Kamilla Marie Speht Kaarsholm	Design towards a treatment solution for groundwater entering Grindsted Å
13:30	Vaidotas Kisielius	Nature-based solutions and organic micropollutants: emission and control from different water sources
13:45	Nicolaj Damgaard	Extent and causes of inhibition of microbial activity in wastewater treatment systems caused by persistent and generational pollution
14:00	Adam Hambly	Fluorescence as an online water quality tool in recirculating aquaculture systems
14:30	COFFEE BREAK	

EVENT 4		
	SESSION 4: Groundwater and Evapotranspiration. Chair: Peter Henriksen, WATEC, AU. DWF board member	
13:00	Krzysztof Piotr Kowalski	Opportunities and challenges for analysis of data collected in relation to operation of pump & treat plants
13:15	Seyyed Reza Mashhadi	First borehole nuclear magnetic resonance (BNMR) results from peatlands in Denmark
13:30	Kiril Manevski	Potential of Sentinel 2 + 3 data to estimate evapotranspiration partitions with Two-Source Energy Balance model
13:45	Vita Antoniuk	Water Deficit Index to assess crop drought stress, evapotranspiration, and irrigation recommendations
14:00	Cécile M. M. Kittel	Evapotranspiration and soil moisture modelling at field scale using Copernicus data

14:30	COFFEE BREAK
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	EVENT 4	
	SESSION 5: Drinking water and Flooding. Chair Hans-Jørgen Albrechtsen, DTU, Inês Breda, Eurowater	
15:00	Lisa Vogel	Rotor induced sand filtration – a novel technology for drinking water production at waterworks
15:15	Julie Bruun Jensen	Identification of most efficient filtration materials for removal of problematic pesticides in drinking water
15:30	Pia Jacobsen	Water Living Lab – a large scale test-facility and partnership for innovation
15:45	Lars Skov Andersen	25 years “Danish” water policy dialogue with China
16:00	Pennan Chinnasamy (ONLINE)	Building bottom-up real time decision support system for effective flood and drought forecasting
16:15	Martina Vit	Non-tangible benefits of Nature-based Solutions for hydro-meteorological risk reduction
16:30	END OF SESSION	

	ROOM 1	
	SESSION 6: Sulfides + special. Chair Torben Lund Skovhus, VIA, Christian Schou, Aarhus Vand	
15:00	Morten Lykkegaard Christensen	Lab and pilot scale evaluation of hydrogen sulfide control by electrochemical generation of dissolved ferrous iron
15:15	Fabian Steininger	Microsensor for Direct Detection of Total Dissolved Sulfide (TDS) in Natural and Technical Environments
15:30	Alaa Khalil	Recovery of H ₂ S scavenger chemicals from offshore wastewater using thin-film composite membranes
15:45	Antonio Viguera Rodriguez	Empirical characterization of an axial hydrokinetic turbine-based on SG6043 airfoil designed through BEM theory
16:00	END OF SESSION	

Contact the secretariat for further information at dwf@danishwaterforum.dk

