

13TH DWF WATER RESEARCH CONFERENCE PROGRAM



DWF is delighted to invite you to the 13th annual water research conference with focus on climate changes, the latest IPCC report and and dedicated sessions on:

- Drinking water
- Ground water
- Urban water
- Waste water and new technologies
- Session for Young Water Professionals

Please find the program for the day below and sign up on
www.danishwaterforum.dk

Time table:

09.00 – 09.30:	Registration
09.30 – 10.50:	Climate challenges; Outlines of the IPCC 1.5 °C report, impacts and pathways, our present technologies and the SDG's
10.50 – 11.00	Coffee break: Grab and run...
11.00 – 12.10	Parallel sessions:
12.10 – 13.00	Lunch
13.00 – 17.20	5 dedicated parallel sessions on drinking water, urban water, ground water, wastewater and new technologies and Young Water Professional session on IT in the water sector Also Posters and announcements.
17.30 – 18.00	Drinks, snacks and mingling! The Grundfos and NIRAS awards are presented and the conference closes.
18.15	Dinner

AWARD SPONSORS



Members of the Scientific Committee:

Peter Engelund Holm, PLEN, University of Copenhagen, **Bjørn K. Jensen**, GEUS; **Hans Jørgen Albrechtsen**, DTU Environment; **Esben Auken**, Department of Geoscience, Aarhus University; **Jesper Goodley Dannisøe**, DHI; **Marina Bergen Jensen**, IGN, University of Copenhagen; **Torben Lund Skovhus**, VIA University College, **Ole Mark**, DHI; **Hans-Martin Friis Møller**, KALFOR; **Anders Refsgaard**, COWI.

ROOM 1

PLENUM	Theme: Climate changes and sustainability; Diagnostics and outlook / Hans-Martin Friis Møller, Chairman DWF
09.30	Opening of the Conference, Hans-Martin Friis Møller, Chairman of DWF
09.40	1.5 degrees global warming: impacts and pathways, Tina Christensen, DMI
10.00	From better to good enough - an absolute sustainability perspective on our technology, Michael Z Hauschild, DTU Management
10.30	Climate change mitigation and adaptation in the EU/ André Jol, European Environment Agency
10.50	Coffee BREAK

ROOM 1

Session 1

11.00	12.10	Session 1, Towards IWA2020 in Copenhagen
12.10	13.00	Lunch break

CHAIRS: Peter Steen Mikkelsen and Miriam Feilberg

Title	Presented by:
Welcome and purpose of the meeting	Claus Beier, IGN-UPCH and Peter Steen Mikkelsen, DTU Envir
Danish organisation behind the conference and the upcoming Call for content	Peter Steen Mikkelsen, DTU Envir & IWA2020 Steering Committee
The Danish core narrative and tentative plans for themes and summits	Miriam Feilberg, DANVA
The Technical support group (in Danish: Faglig forankringsgruppe) and how to contribute Presentation and discussion of Input received since 1 st meeting at DanskVand conference in November, 2018	
Announcement of WATERMATEX conference in Copenhagen/Lund, September 2018	
Closure and next steps	

Session 2 + 3

13.00	15.00	Session 2: Groundwater I
15.00	15.30	Coffee break
15.30	17.20	Session 3; Groundwater II

Ground Water

CHAIR: Bjørn K. Jensen and Lars Skov Andersen

Title	Presented by:
The Indian Wells Valley basin in California – Danish solutions as part of reaching sustainable water resources management	Max Halkjær, Rambøll
Is one conceptual model sufficient for well capture zone delineation?	Elisa Bjerre, IGN-UCPH
Challenges faced when trying to export the Danish Model of groundwater management to California	Casper B. Mejer, I•GIS*
Investigation and remediation of pesticide point sources in Region Zealand	Nanette Levanius Schouw Christiansen, Region Zealand
Concept for managed aquifer recharge at Pingtan Island	Peter Thomsen, Rambøll
Exploiting flexible meshes for modelling groundwater flow and reactive transport in Quaternary deposits: applications at two Danish sites	Nicola Balbarini, DHI
NoNewBAM: diflufenican degradation and potential leaching	Pedro N. Carvalho, AU Envs
Improving flood risk modelling in a national water resources model for Denmark	Raphael Schneider, GEUS
An integrated modelling framework for nutrient management	Rasmus Rumph Frederiksen

ROOM 2

11.00	12.10	Session 4; Urban water
12.10	13.00	Lunch
13.00	15.00	Session 5; Drinking water I
15.00	15.30	Coffee break
15.30	17.20	Session 6; Drinking water II

Session 4: Urban water:

CHAIR: Marina B. Jensen & Peter E. Holm

Title	Presented by
Quantification of environmental damage and benefit of four different stormwater management systems	Sarah Brudler, Vand Center Syd
Groundwater recharging, erosion control and city greening – a novel nature-based system for road drainage	Alazar Assefa, CPH IGN
Nature enhancing SUDS: A case study on the planning, design, implementation and short-term evaluation of a full-scale bio-SUDS	Rikke J. Monberg, CPH-IGN
The benchmarking testing for GIS-based objective-oriented sub-model screening method	G. Zhao, CPH-IGN
Object based image analysis of WorldView 3 data for use in catchment scale urban hydrologic modelling	Mark Taylor Randall, CPH IGN

Session 5 & 6; Drinking water

CHAIR: Torben Lund Skovhus and Hans-Jørgen Albrechtsen

	Title	Presented by
13:00	The microbiome of bacteria released from pipe biofilm into drinking water, following installation of a hybrid ultrafiltration process in Varberg, Sweden.	Catherina J. Paul, Lund University, Lund Sweden
13:20	Front Loading the Design of PAS Technology	Thomas Aktor, Aktor
13:40	Softening of drinking water - Are other processes in the treatment impacted?	Hans-Jørgen Albrechtsen, DTU Environment
14:00	Performance indicators for the drinking water treatment process. Characteristics, barriers, and full-scale examples	Loren Ramsay, VIA University College
14:20	Manganese removal processes at 10 Danish full-scale drinking water treatment plants	Ines Lousinha Breda, Skanderborg Forsyning A/S
14:40	Stratification of physical parameters in dual media filters at 10 waterworks	Majbritt Lund, VIA University College
15:00-15:30	Coffee Break	
15:30	Development of a water forecasting tool based in Prophet to improve the management of Lorca's water supply system	Antonio Viguera-Rodríguez, Universidad Politécnica de Cartagena (UPCT)
15:50	Campaign Process Analytical Technology - a PAT framework for recovered process-water in the food industry	Peter Bæk Skou, UCPH FOOD
16:10	Valve status identification by temperature modelling in water distribution networks	Jonas Kjeld Kirstein, DTU Envir
16:30	Water management in Kalundborg	Søren T. Nielsen, Kalundborg Forsyning
16:50	Poster presentations	
17:10	European Junior Water Programme	Naomi Timmer, EU JWP
17:20		

ROOM 3

11.00	12.10	Session 7; Wastewater
12.10	13.00	Lunch
13.00	15.00	Session 8; Wastewater and technology
15.00	15.30	Coffee break
15.30	17.20	Session 9 Young Water Professionals

Session 7 & 8: Wastewater

CHAIR: Hans-Martin Friis Møller

Title	Presented by
Full stream active pharmaceutical ingredients removal through ozonation at Kalundborg Utility	Jeppe Bregendahl, Kalundborg Forsyning
Bioreactor with woodchips	Finn Plauborg, Aarhus University, Agroecology
Control of anaerobic digestion for maximal biogas production under dynamic conditions	Borja Valverde-Pérez, DTU Envir.
Phosphorus removal, recovery and reuse by newly developed coated materials for use in decentralized wastewater treatment systems	Carlos A. Arias, Aarhus University, Bioscience
New innovative technology using peracetic acid ensures efficient reduction of antibiotic-resistant bacteria from untreated hospital wastewater	Sabine Lindholst, Technological Institute
Microbial Electrochemical-based Constructed Wetland (METland): test of an innovative setup for wastewater treatment	Carlos Alberto Arias, WATEC, Aarhus University
Strict biological removal of pharmaceuticals in wastewater effluents	Peter Rosborg, Technological Institute
Online sulphide sensor for an efficient and environmental-friendly control of wastewater	Kirsten Habicht, Unisense
UV-C tolerance of microorganisms from food processing water streams	Eirini Vitzilaiou, University of Copenhagen, Food
Abiotic denitrification and Nitrogen recycling using Zero-valent Iron and Zeolite	Adrian F. Florea, CPH PLEN
Absolute sustainability assessment of a Danish water utility company	Morten W. Ryberg, DTU Management
Blue steps towards sustainable development: A project mapping and assessing the sustainability of Danish climate adaptation projects	Hjalte Jomo Danielsen Sørup, DTU Envir.
Unmanned Airborne Vehicles (UAVs) for monitoring Danish streams and optimizing river maintenance	Filippo Bandini, DTU Envir.
An UPLC-QqQ Method for Analyzing Natural Toxins-Pyrrolizidine Alkaloids in Surface Water from a Ragwort Catchment, Vejle-Denmark.	Jawameer Hama, CPH PLEN

Session 9: Young Water Professional Session

Chair:

Title	Presenter
Digitization of the water sector - practical examples from around the world,	Riccardo Sprocati & Jan-Michael Blum, DTU & Envidan
Urban Lab 2018 – Coastal Resilience	Marianne Skov, Rambøll
What is the value of Smart Meter Data?	Martin Møller Værum, Kamstrup
Discovering the Potential of Machine Learning in the Utility Sector	Bolette D. Hansen, AAU & Envidan
Bringing Big Data into the water sector	Charlotte Agata Plum, InforMetics
Workshop: Fast forward	Wadim Baslow, Quercus Group

Posters

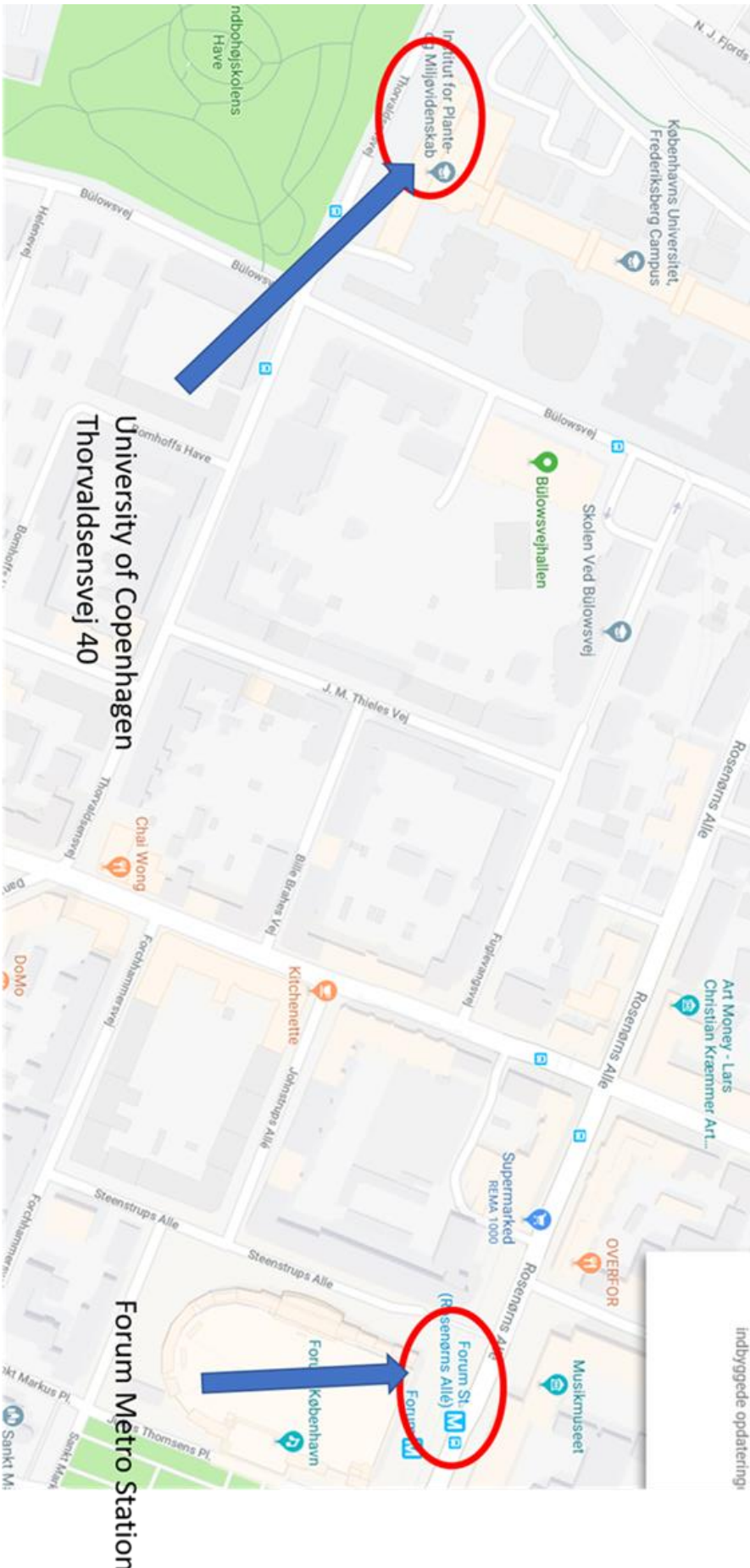
Monitoring of primary treatment: Estimation of the bioavailable organic carbon in wastewater by measuring the total organic solids (TSS) and turbidity	Sofoklis Karvelas, DTU Environment
Water efficient process optimization by applying flotation technology for further reuse of landing water	Michelle L. Rebsdorf, Danish Technological Institute
Aiming for a reduced chloride discharge at Arla DP - Simple means with significant effect	Rune Røjgaard Andreasen, Danish Technological Institute

Announcements

- The Junior Water Program / Naomi Timmer**
 Active in personal development and cooperation programmes in the water sector since 2012 in the Netherlands. The European Junior Water Programme offers you a unique opportunity to boost your career in European water management. A two-year programme for networking, transferring knowledge and the necessary soft skills to work together. Join the programme to work together on a water smart society in Europe! More information at www.juniorwaterprogramme.eu Naomi Timmer is programme manager of the European Junior Water Programme.
- The AVK Tech Challenge 2019; Jesper Goodley Dannisøe, Danish Water Forum**
- Nordic Drinking Water Biofilm Symposium, April 25-26, 2019, VIA University College, Horsens, Denmark**

This event gathers experts from academia and industry working to understand the diverse aspects of how biofilm impacts drinking water including water safety, microbial monitoring and applied biofilm research. We welcome your registration and abstract submissions for before February 28, 2019.

More details on abstract submission, the technical program, social activities and registration can be found on the webpage: <http://bit.ly/2qwTWMj>. Symposium Chairs: Dr. Torben Lund Skovhus and Dr. Catherine Paul, Contact: tols@via.dk or catherine.paul@tvrl.lth.se



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