

CONFERENCE PROGRAMME

NORDIC WASTEWATER CONFERENCE AARHUS, 10-12 OCTOBER 2017

Leading Nordic event for water professionals – experts and practitioners, managers and operators: utility staff, city planners, researchers, engineers, advisors and others with an interest in wastewater management and climate change adaptation in the Nordic region. Special focus this year on wastewater management in the Baltic Sea Region.



DANVA, SAMORKA, FIWA, Svenskt Vatten, Norsk Vann and IWA invite all water professionals with an interest in wastewater, sewage systems and climate change adaptation to **join us at NORDIWA 10 – 12 October 2017**



Welcome to Aarhus

- Second largest city in Denmark – the "capital" of Jutland and European Capital of Culture 2017
- Mentioned in World Energy Outlook 2016 for its leading wastewater treatment plant Marselisborg Renseanlæg. A WWTP that demonstrates the ability of the water sector to become energy neutral and beyond.
- Renowned for outstanding integrated solutions, where water management, and the opening of Aarhus River to the public, contributes to urban liveability
- A vibrant mix of youthful energy and a blast from the past, selected as a Top Destination – Best in Europe 2016 by Lonely Planet and praised by visitors including Tripadvisor for the city's atmosphere and world-class museums including AROS – Museum of modern art, The Old Town and Moesgaard – museum of ancient history



Who will attend

Participants in the NORDIWA conferences are water professionals – experts and practitioners. NORDIWA is an unique meeting place for utility staff, city planners, researchers, engineers and others with an interest in wastewater management and climate change adaptation in the Nordic region.



Mayor of Aarhus, Jacob Bundsgaard

We look forward to welcoming all of you to Aarhus for the Nordic Wastewater Conference 2017. In Aarhus we view water as a resource that supports our efforts to create a greener and bluer city – a city with plenty

of opportunities for healthy activities in everyday life. Liveability, open spaces, recreational areas and landscapes within reach are indispensable elements of our efforts to adapt Aarhus to climatic change.



CEO of Aarhus Water, Lars Schrøder

Aarhus Vand aims to be among the most advanced water companies in our region. Visitors get a chance to see this for themselves on technical tours at NORDIWA for instance when going to Marselisborg Wastewater Treatment Plant. This plant is in fact a power

station setting new technological and operational standards for energy production from wastewater. Visitors can also experience the results when taking a walk along Aarhus River, re-opened to the public thanks to improved water quality.



CEO of DANVA, Carl-Emil Larsen

Sharing knowledge among the Nordic countries has taken place at NORDIWA conferences since 1989. Learning from advanced water companies with high ambitions and standards gives us all an opportunity to improve our solutions for the benefit of utilities and communities. This will help us all in taking water management to the next level and develop world class solutions in the Nordic region.



CEO of Svenskt Vatten, Anna Linusson

It is time to influence political leadership and consider the whole picture. The challenge of emerging substances cannot be solved only with end of pipe solutions. Focus on producers' responsibility is needed. If we want green pharmacy and

eco design, we should reward this by making it long-term profitable. I hope the conference in Aarhus will contribute to a more proactive approach on this issue.

Conference programme NORDIWA

10 – 12 October 2017

Four main topics

NORDIWA presents a varied and interesting conference programme with four main topics:

1. New approaches to Wastewater treatment – Plants, Processes and Circular Economy

2. Sewer systems – models, management and integrated approaches

3. Adapting to consequences of a changing climate

4. Cross-cutting topics

Conference elements are:

- **Plenary sessions** with presentations and limited room for discussion. These sessions will provide overview and inspiration for the coming days.
- **Conference sessions** with in-depth knowledge about projects and findings, but with little room for discussion.
- **Poster sessions** with quick presentations and room for further discussions for both posters and poster presentations. The subjects of the poster sessions are coordinated with the conference sessions, and posters related to the subject will be shown at the conference sessions.
- **Workshops** facilitate knowledge sharing across countries in the Nordic and Baltic Sea region and across disciplines such as practitioners, researchers and authorities.

There is special focus on water management in the Baltic Sea region and, as a part of the conference, workshops and events are organised by and for Young water Professionals.

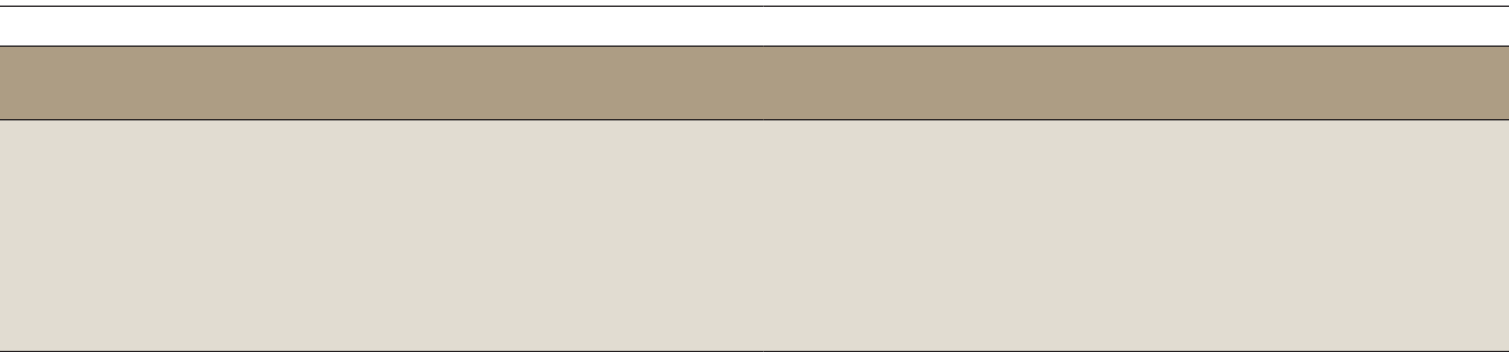


10 OCTOBER 2017

10.00-11.00	Arrival and registration		
11.00-13.00	Opening session Centralværkstedet		
11.00-11.30	Welcome to NORDIWA: Drivers for innovation – The development in the water sector the last 10 years. Carl-Emil Larsen, DANVA		
11.30-12.00	The challenges: Water challenges around the Baltic Sea.		
12.00-12.30	The solutions: IWA activities promoting UN Sustainable Development Goals and securing clean water, adequate sanitation and sustainable cities. Tom Williams, IWA		
12.30-13.00	The actions: Improving cooperation in the water sector, strategies to promote increased innovation and securing funding, Representative of Nordic Council		
13.00-14.00	Lunch at Centralværkstedet		
14.00-14.20	Future WWTP Centralværkstedet	Nordic Innovation (WS) Lokale A – Comwell	Water reuse (WS) Lokale B – Comwell
14.20-14.40	Roadmap to 153% energy self-sufficiency at WWTP Per Overgaard Pedersen, Aarhus Vand A/S	Six guiding principles for radical innovation of WWTPs Mikkel A. Thomassen, Smith Innovatiom	Converting wastewater into fertilizing irrigation Niels Mikkelsen, Minor Change Group Aps
14.40-15.00	Capacity development for the WWTPs in the area of Baltic sea – Case IWAMA Sami Luste, Lahti University of Applied Sciences		Storm water replaces ground water for industrial wash. Christian Lundgaard Jensen, NIRAS
15.00-15.20	Advanced control of WWTPs using fast DNA sequencing Mikkel Stokholm-Bjerregaard, Aalborg University/Krüger A/S		Recovery of water resources from wastewater Sveinung Sægrov/Blanca Silva, NTNU
14.00-15.20	WWTP in regional perspective, drivers in Malmö/Lund aera Ulf Nyberg, VA SYD		Sequential batch passive aeration greywater treatment Marina Bergen Jensen, Univeristy of Copenhagen
15.20-16.00	Coffee break and networking		
16.00-17.30	NEW WWTP Centralværkstedet	Baltic Sea (WS) Lokale A – Comwell	Managing data Lokale B – Comwell
16.00-16.20	Developing tailor-made simulation and process models Eppu Väänänen, Ramboll Finland Oy	Pharmaceuticals in the Baltic Sea region – status report Niina Vieno, Law and Water Ltd	Present status of instrumentation at Swedish WWTPs Linda Åmand, IVL Swedish Environmental Research Institute
16.20-16.40	Denmark's first fully covered wastewater treatment plant Peter Underlin, Hillerød Spildevand		Uncertain reference samples for online sensor calibration Oscar Samuelsson, IVL Svenska Miljöinstitutet
16.40-17.00	Start-up of the new MBBR plant of Ruka Ski Resort Kristian Sahlstedt, Pöyry Finland Oy		Applying big data analytics to sewer network management Tomi Lukkarinen, HSY
17.00-17.20	Higher Environmental Performance in wastewater systems Jan Eilsø Nielsen, Assens Forsyning A/S		Visualization of key data for Greater CPH utilities Sten Lindberg, DHI
19.00-21.00	Reception at AROS		

11 OCTOBER 2017

9.00-9.40	Morning Plenary – New perspectives in Nordic water management Centralværkstedet Chair: Lars Schrøder, Aarhus Vand		
	Anna Linusson , Executive Director, Svenskt Vatten: Producers responsibility as a means to improve Nordic water management: It is time to influence political leadership. The challenge of emerging substances can not only be solved with end of pipe solutions. We need to focus on producers and place responsibility where changes can take place. Petter D. Jenssen , Professor, Norwegian University of Life Sciences: Green cities – resource hubs in a circular economy: How emerging technologies and changed institutions can transform cities from importers of water, food, and energy from rural areas to important suppliers of fertilizer and soil amendment products in greener cities.		
9.40-9.50	Short break – find your next session at Comwell or Centralværkstedet		



Urban Solutions (WS) Lokale C – Comwell	Renewal and maintenance (WS) Lokale D – Comwell
<p>Exit Utopia – Enter The Climate Laboratory Of Denmark Helle Baker, The Climate City, Middelfart Wastewater Utility</p> <p>How climate change can develop the city Esben Ravn Iversen, NIRAS</p> <p>Planning for the future through a Masterplan approach Anders Skovgård Olsen, Krüger A/S</p> <p>How climate adaptation redesigns cities Astrid Kock Grusgaard, Rambøll</p>	<p>Pipe Inspection Thomas B. Moeslund, Aalborg University</p> <p>Using lean to improve the handling of CCTV Morten Hass Rasmussen, EnviDan A/S</p> <p>Automated Image Learning to Improve Sewer Pipeline Inspection Tiia Lampola, Helsinki Region Environmental Services Authority</p> <p>Deterioration modelling of wastewater pipes Jon Røstum, Powel</p>

Cross-sector Cooperation for better adaptation Lokale C – Comwell	Wastewater from industries (WS) Lokale D- Comwell
<p>A new normal? Collaboration as the road to better adaptation Søren Møller Christensen, Rain & Cities</p>	<p>Harnessing industrial CO₂ emissions to neutralize water poll Hans Carlsson, Ramböll Sverige AB</p> <p>The cadmium challenge – a joint adventure Marcus Frenzel and Erik Forsberg, Käppala Association and Swedavia</p>
<p>A bumpy road to climate adaptation Bente Villumsen and Merle Enghoff, KLIKOVAND</p>	<p>Nutrient removal and performance of microscreens for treatment of C-stage MBBR effluent wastewater from a dairy industry Mikael Sjölin, Veolia Water Technologies, Sweden</p>
<p>Transcending sectors – pooling visions and surging ahead Lars Nørgård Holmegaard, Lemvig Water & Wastewater, Denmark</p>	<p>Wastewater from fish processing industries as carbon source Mark de Blois, H2OLAND AB</p> <p>A tool to support upstream work Hans Bertil Wittgren, VA SYD/Sweden Water Research</p>
<p>Climate Proofing at Grundfos, Collaboration Across Klaus E. Christensen and Thomas Møller Schmidt, Grundfos and Viborg Kommune</p>	



11 OCTOBER 2017 – CONTINUED

	Poster Presentation Centralværkstedet	Poster Only Centralværkstedet
9.50-10.10	ICT, MONITERING	
	Monitoring of WWTPs performance by size-exclusion HPLC Alexey Ignatev, University of Jyväskylä MiDAS: database of microorganisms in AS and AD Marta Nierychlo, Aalborg University Process simulation as a method for strategic decision Lorenzo Benedetti, Water Ways d.o.o	A MODEL TO PREDICT PERFORMANCE OF DUAL-MEDIA REACTO Raul Rodriguez, WSP Sverige Predictive control of liquid level of WWTP inlet canal Finn Aakre Haugen, University College of Southeast Norway Advanced process control for biological nutrient removal Åsa Henriksson, Xylem Water Solutions Global Services AB
10.10-10.30	WASTEWATER TREATMENT PROCESSES (NOVEL)	
	Evaluation of model-based design of BNR-processes Sofia Andersson, Stockholm Vatten och Avfall Resource Container as a Seasonal Solution for valorification Mona Arnold, VTT Granular sludge to enhance settleability Lise Havsteen, VandCenter Syd Rotating Belt Filter (RBF) for CEPT Subhash S Rathnaweera, Aquateam COWI Wet Weather Tricking Filters for Improved Energy Footprint Per Henrik Nielsen, VandCenter Syd Phosphorus peaks in MBR effluent after membrane cleaning Sofia Lovisa Andersson, IVL Swedish Environmental Research Institute	Aerobic granular sludge – opportunities and challenges Mark de Blois, H2OLAND Modeling the Selective Retention of Biomass by Hydrocyclones Nerea Uri, VandCenter Syd N-SEP is challenging fundamentals in wastewater treatment Stig Ovar Keller, Norwegian Technology AS Intensification of Nutrient Removal and Energy Reduction Fredrik Åkesson, GE Water & Process Technologies
10.30-10.50	MICROPOLUTANTS	
	New design of the center construction of the clarifier Claes Barlebo, Middelfart Spildevand Removal of metals for improvement of sludge quality Ida Sylwan, Mälardalen University Contribution of heavy metals from clay in wastewater Kyrre Halvorsen, Trondheim kommune Biological removal of emerging micropollutants at 8 °C Antonina Kruglova, Aalto University	
10.50-11.10	PHARMACEUTICALS	
	Fate of pharmaceuticals in sewage and sludge Jörgen Magnér, IVL Swedish Environmental Research Institute Removal of pharmaceuticals at wastewater treatment plants Karolina Furgal, Rambøll	Unique and cost-effective treatment of Hospital Wastewater Bjarne Johannessen, Grundfos BioBooster A/S Removal of antibiotic resistant E. coli in WWTPs Carsten Ulrich Schwermer, Norwegian Insitute for Water Research (NIVA) Characterization of airborne bacteria collected from a munic Jaeyoun Jang, Aarhus University MBBR for removal of pharmaceuticals Elena Torresi, Veolia Water Technology
11.10-11.40	Coffee break and networking	
	Poster Presentation Centralværkstedet	Poster Only Centralværkstedet
11.40-12.00	ADAPTING TO A CHANGING CLIMATE	
	A climate resilient NYC with Blue-Green Infrastructure Maria Facchin Asmussen, Rambøll A/S SPARK-project, Development of the Marselisborg Center Anne Laustsen , Aarhus Vand A/S Soul of Nørrebro – Innovative urban storm water management Michael Fabritius Tengenagel, Rambøll Water Masterplan Fovrfeld Ådal Ulla Lyngs Ladekarl, Niras	Coastal and Climate Mitigation with the Water Family Tree Linne Lauesen, HydroSystems Aps
12.00-12.20	ADAPTING TO A CHANGING CLIMATE	
	Separating rainwater from wastewater Anne Laustsen, Aarhus Vand A/S Life cycle analysis of adsorbents for stormwater treatment Aamir Ilyas, NTNT-Norwegian University of Science & Technology Estimating co-benefits of preventing cities from flooding Camilla K. Damgaard, Niras	

Microplastic Lokale A – Comwell	Digester/Bio gas production Lokale B – Comwell	Flood Protection Lokale C – Comwell	Inflow and hydraulic modelling Lokale D – Comwell
Microplastics in the wastewater cyclewater, sludge and soil Emma Fältström, Sweden Water Research AB	The Powerstep project Dines Thornberg, BIOFOS	A Cross-border Platform for Flood Risk Screening CEO, Morten Revsbæk, SCALGO	Model Predictive Control of Integrated Water Systems Lisbeth Birch Pedersen, DHI
Beltfilter – potential of removing carbon and microplastics Hanne Løkkegaard and Nerea Uri Danish Technolgical Institute and VandCenter Syd	Bergen municipality – Biogas – Experiences Kristine Akervold og Britt Mo, Bergen Municipality	Optimising SUDS ecosystems in urban enviorements Lærke Kit Sangill, VandCenter Syd	Keyzones Sewer David Getreur Jensen, EnviDan A/S
Microplastic removal in Danish wastewater treatment plants Marta Simon, Aalborg University	Sundet resource recovery facility – three years with thermal Anneli Andersson Chan , City of Växjö, Water and Sewerage Dept.	Correlating Climate Proofing Measures in DK-Ringkøbing Henning Lehmann Pedersen, NIRAS	Automatic data-correction of pumping stations Perttu Saarinen, HSY
Removal of microplastics from secondary effluent Julia Talvitie, Aalto university	Recovery of methane from anaerobic digester effluent Hamse Kjerstadius, Lund University	Making the most of Cloudburst Adaptation Strategies Maria Facchin Asmussen, Rambøll A/S	Design and Implementation of an Online Flood Warning System Nikolaj Mølbye, Küger A/S

Micropollutants Lokale A – Comwell	Digester (WS) Lokale B – Comwell	Rain events and stormwater handling Lokale C – Comwell	Weather Forecast models (WS) Lokale D – Comwell
Organic micropollutants in household wastewater Cajsa Wahlberg, Stockholm Vatten och Avfall	Online monitoring of Anaerobic Digesters Søren Jørgensen, NanoNord A/S Alternative temperature control structures of an AD reactor Shadi Attar, University College of Southeast Norway Nitrogen harvesting from reject water – A new energy efficient technology Juho Kaljunen, Aalto University, Finland	New cloudburst roads Julie Linke Bank, VANDVEJEN	Experiences with X-band weatherradar quality in Copenhagen Peter Rasch, InforMetics Urban runoff forecasting with ensemble weather predictions Jonas Wied Pedersen, Department of Environmental Engineering, Technical University of Denmark www.aalborgvejrradar.dk – Cloudburst Documentation Mette Godsk Nicolajsen, Aalborg Kloak
How Efficient is our Upstream Management? Case study Gryaab Ann Mattsson, Gryaab	Influence of calcium nitrate disage on anaerobic digestion Wolfram Franke, Yara International ASA Methane gas production in relation to an extended SRT in AS Niclas Åstrand, Sweco Environment AB	Types of Rain Implemented in Hydraulic Modelling Evaluation Sabah Al-Shididi, Hillerød Forsyning	Vejlby/Risskov – Probability for occurrence of extreme rain Anders Gade, EnviDan A/S Review of spatial rainfall measurements for decision making Peter Rasch, InforMetics

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11 OCTOBER 2017 – CONTINUED

	Poster Presentation Centralværkstedet	Poster Only Centralværkstedet
12.20-12.40	SEWAGE SYSTEMS AND MANAGEMENT	
	<p>Strategic reduction of inflow/infiltration to sewage systems Jan Scheel, NIRAS</p> <p>Using management systems the smart way Marcus Müller, COWI</p> <p>Forecasting inflow using neural networks on rain gauges Peter Rasch, InforMetrics</p> <p>Future-protection of stormwater management in Tarm Julie Lisa Magnussen and Charlotte Sinkbæk Schow, Ringkøbing-Skjern Forsyning and Rambøll</p>	<p>DEM-CFD Simulation of Sediment Transport in Sewers Maryam Alihosseini, Technische Universität Berlin</p> <p>Managing Big Data in future utilities Anja Veldt, ARTOGIS a/s</p> <p>Optimising KPIs, Risk and Cost for Sewer Infrastructure Richard Hawkins, SEAMS</p> <p>Overview of Investment requirements in Næstved Carsten Jakobsen, Krüger A/S</p>
12.40-13.00	SEWAGE SYSTEMS AND MANAGEMENT	
	<p>Modeling and control of pumps with flow equalization Rasmus Jemander, Uppsala University</p> <p>Performance Benchmarking as a tool to improve dialogue Jóannes Jørgen Gaard and Christian Rosen Balder, Miljøstyrelsen and NIRAS</p> <p>Use of a screening method to boost information from CCTV-ins Tiia Lampola, Helsinki Region Environmental Services Authority</p> <p>Quantifying green surface rain runoff in urban catchments Kristoffer Nielsen, Aalborg University</p>	<p>Cross border optimization of wastewater structures Ole Godsk Dalgaard, COWI A/S</p>
13.00-14.00	Lunch at Centralværkstedet	
	Poster Presentation Centralværkstedet	Poster Only Centralværkstedet
14.00-14.20	ENERGY AND GHG	
	<p>Power-to-Gas integrations at wastewater treatment plants Robert Weiss, VTT Technical Research Centre of Finland</p> <p>Low nitrous oxide production in nitrification reactors Qingxian Su, Department of Environmental Engineering, Technical University of Denmark</p> <p>Circular economy in sustainable wastewater management Mia O'Neill, Environmental School of Finland SYKLI</p> <p>Energy savings at a WWTP operated with intermittent aeration Niclas Åstrand, Sweco Environment AB</p>	<p>N2O dynamics: experimental and modelling lab-scale results Carlos Domingo-Felez, DTU – Environment</p> <p>Achieving Energy Savings and More with VFDs James Chalmers, ABB A/S</p>
14.20-14.40	SLUDGE AND CIRCULAR ECONOMY	
	<p>The Circular Economy Approach to Wastewater Treatment Bjarne Bro, Billund Vand</p> <p>Results from Hydro Thermal Carbonisation (HTC) of sludge Erik Odén, C-Green</p> <p>A novel gasification strategy for wastewater sludge Torben Lund Skovhus, VIA University College</p> <p>Strategies for maximising primary sludge hydrolysis rates Elin Ossiansson, VA SYD</p>	
14.40-15.00	ANAMMOX	
	<p>N2O production and mitigation in Partial Nitrification-Anammox Jan-Michael Blum, Technical University of Denmark, Department of Environmental Engineering</p> <p>Mainstream Deammonification with ANITA Mox Process Dora Stefansdottir, Veolia Water Technologies – AnoxKaldnes</p> <p>Anammox process nitrite inhibition and nitrite-adaption Ivar Zekker, University of Tartu</p>	
15.00-15.20	MICROPLAST	
	<p>Plastic free fjords in Denmark Stine Lundbøl Vestergaard, EnviDan A/S</p> <p>Instruments, methods and results for microplastic analysis Sebastian Antonsen, Danish Technological Institute</p>	
15.20-15.50	Coffee break and networking	

Micropollutants Lokale A – Comwell	Digester (WS) Lokale B – Comwell	Rain events and stormwater handling Lokale C – Comwell	Weather Forecast models (WS) Lokale D – Comwell
	<p>High loaded anaerobic digestion with short HRT – pilot trial Erik Lindblom, Stockholm Vatten och Avfall</p> <p>Performance survey of 46 Danish anaerobic digesters Martin Hjorth Andersen, Aalborg University</p> <p>Organic waste to WWTP – is it a good idea? Jacob Kragh Andersen, EnviDan A/S</p>		
<p>Toxicity removal during wastewater treatment Pia Väitalo, Aalto University</p>		<p>Water retention on non-vegetated roofs in nordic climates Vladimir Hamouz, NTNU</p>	

Pharmaceuticals Lokale A – Comwell	Phosphorus recovery Lokale B – Comwell	Pollutants in ecosystems and stormwater Lokale C – Comwell	Decision support Lokale D – Comwell
<p>Pharmaceuticals and micro plastics in waste water treatment Anna Maria Sundin, Swedish Environmental protection agency</p>	<p>Danish phosphorus strategy and P-recovery Linda Bagge, Miljøstyrelsen</p>	<p>Controlling storm water discharge respecting stream capacity Anja Thrane Hejselbæk Thomsen, Orbicon and Aalborg University</p>	<p>Implementation and Experiences of the SSP in Helsinki Region Johanna Castrén, Helsinki Region Environmental Services Authority HSY</p>
<p>Mermis Niels Møller Jensen, Herning Vand</p>	<p>RAVITA- A new method for phosphorus recovery from wastewater Laura Rossi, Helsinki Region Environmental Services Authority HSY</p>	<p>Effects of delayed stormwater on biodiversity in streams Lukasz Koziel, University of Southern Denmark</p>	<p>Pin-sharp prioritizing of sewer rehabilitation tasks Lotte Neve, NIRAS</p>
<p>Clear Waters from Pharmaceuticals, CWPharma Robert Sehlén, Tekniska verken i Linköping AB</p>	<p>Side Stream Hydrolysis and EBPR at Swedish WWTPs Tobias Salmonsson and Stefan Erikstam, Svoa and Kappala</p>	<p>Separation of microplastics in road runoff Daniel Venghaus, TU Berlin, Department of Urban Water Management</p>	<p>Data driven asset management: Operate, maintain or invest? Michael Sønder Jensen, Randers Spildevand</p>
<p>Full-scale treatment of hospital wastewater Ulf Nielsen, DHI</p>	<p>Full scale P-recovery based on struvite production Peter Balslev, Aarhus Vand A/S</p>	<p>Microplastic in Danish storm water ponds Kristina B. Olesen, Department of Civil Engineering, Aalborg University, Denmark</p>	

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	Small treatmentplants (WS) Centralværkstedet	Hydrogen sulphide (WS) Centralværkstedet	Young Water Professionals (Workshop) Centralværkstedet
15.50- 16.10	Reduced environmental impact from small wastewater treatment Ingrid Palmblad Örlander, City of Växjö, Dept. of Water and Sewerage	Novel sensor technology for sulphide monitoring in sewers Ebbe Kruse Vestergaard, Unisense A/S	
16.10- 16.30	MBBR and activated sludge: 1 + 1 = 3? Mark de Blois, H2OLAND AB	Hybrid filter technology for treating sewer odor Asbjørn Haaning Nielsen, Aalborg University	
16.30- 16.50	Effect of screened domestic sewage on receiving waters Guðjón Atli Auðunsson, Innovation Center Iceland	Kinetics of sulfide precipitation using iron salts Bruno Kiilerich, Aalborg University/Grundfos Holding A/S	
16.50- 17.10	Trickling filter disasters at the west coast of Sweden Mark de Blois, H2OLAND AB	In situ assessment of surface pH of corroding sewer pipes Asbjørn Haaning Nielsen, Aalborg University	
19.00	Dinner at Centralværkstedet		

12 OCTOBER 2017

	Wastewater treatment process Lokale A – Comwell
9.00- 9.20	Improving the capacity of Käppala WWTP by using cyclones Sari Vienola, Käppalaförbundet
9.20- 9.40	Long-time experiment with biological active filter (BAF) Christian Baresel, IVL Swedish Environmental Research Institute
9.40- 10.00	Continuous Biofilm Nutrient Removal Process – One Year Of Full Scale Operation Torgeir Saltnes, Hias IKS
10.00- 10.20	Applying a Disruptive Technology: Practical Considerations Per Henrik Nielsen, VandCenter Syd
10.20- 11.00	Coffee break and networking
	Energy efficient/GHG emission Lokale A – Comwell
11.00- 11.20	Käppala WWTP future – Carbon neutral and Energy positive Catharina Grundestam, Käppala Association
11.20- 11.40	Towards GHG-emission compensating WWTPs Jannice Örnmark, Syvab, Himmerfjärdsverket
11.40- 12.00	Modelling nitrous oxide emissions at a full-scale WWTP Kati Blomberg, Aalto University
12.00- 12.20	Climate neutral sidestream control strategies and models Mikkel Holmen Andersen, DHI
11.20- 12.45	Closing of the conference – and welcome to next NORDIWA conference Lokale A – Comwell
12.45- 13.00	Lunch to go
13.00- 16.00	Technical tours Billund Biorefinery • Aalborg WWTP East • Climate change adaptatin tour in Aarhus • Marselisborg WWTP in Aarhus

Anammox Lokale A – Comwell	P-recover workshop (WS) Lokale B – Comwell	Management and legislation to improve climate change adaption (Workshop) Lokale C – Comwell	Hydraulic modelling (WS) Lokale D – Comwell
Four years of piloting-mainstream nitrification-anammox David Gustavsson, Sweden Water Research	Ash2®Phos – Clean commercial products from sludge ash Yariv Cohen, EasyMining Sweden	Sustainability assessment of stormwater management systems Sarah Brudler, DTU Environment/VCS Denmark	Analysis/Plan of Separat- & Centralising of Drainage systems Sabah Al-Shididi, Hillerød Forsyning
Anammox Activity in the Main- and Sidestream at Marselisborg Mikkel Holmen Andersen, DHI	A robust alternative to sustainable phosphorus recycling Mette Dam Jensen, Krüger A/S	FROM WATERWAYS TO SEWAGE TREATMENT FACILITIES Anne Christine Matzon, Horten Law Firm	Continuous measurement of elements for wastewater monitoring Heini Postila, University of Oulu
Full scale operation of DeAmmon® N-removal from reject water Morten Rostad Haugen, Bekkelaget Vann AS	Phosphorus recovery from sludge – a new technology Hanne Løkkegaard and Morten Lykkegaard Christensen, Danish Technolical Institute and Aalborg University	EXPERIENCE WITHIN CLIMATE ADAPTATION Line Markert, Horten Law Firm	Isolating infiltration using neural networks Lasse Børresen, InforMetics
Piloting the ANITAMox – process for reject water treatment Johanna Castrén, Helsinki Region Environmental Services Authority HSY	Slamförbränning med fosfor återvinning Rafea Naif Majeed Al-Sabti, Sandviken Energi Vatten AB		A Novel Approach to Tracking Sewer Inflow and Infiltration Morten Grum, WaterZerv

Managing our wastewater system Lokale B – Comwell	Managing & analyzing climate solutions Lokale C – Comwell
Practical approach to set-up an asset management system Christian Schmidt Berthelsen, BIOFOS	Holistic stormwater and climate adaptation management Charlotte Sinkbæk Schow, Ramboll
Asset Management for 1,500 km Sewer System Benny Nielsen, Herning Water A/S	Assessing profitability of cloudburst management investments Helena Åström, Orbicon A/S
Asset Management in VCS Denmark Arne Svendsen, VCS Denmark	Cloudburst management plan – experience from Herlev Jørn Bjarke Torp Pedersen, Orbicon A/S
Managing our wastewater system – the Sustainability Index Magnus Montelius, Svenskt Vatten	CBA for deciding local flood protection levels Jan Jeppesen, EnviDan A/S

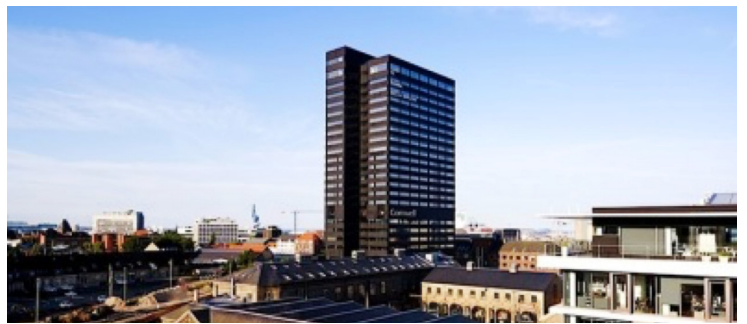
Partnering and cooperation Lokale B – Comwell	Designing innovative water sensitive urban solutions (WSUD)/LAR Lokale C – Comwell
Partnering – a new way of working and innovating Karina Topp, Aarhus Water Ltd.	Safe recreational lake waters Lotte Bjerrum Friis-Holm, Danish Technological Institute
Wastewater treatment 2040 – How to get there? Tor Gunnar Jantsch, Frevar KF	Detention basins in Virum Nina Caspersen, Lyngby Taarbæk Forsyning A/S
MinKloak.dk – a separate sewerage website for citizens and sewer professionals in Aalborg Mette Godsk Nikolajsen, Aalborg Kloak A/S	Future holistic storm water and sewage handling in Aarhus Lene Bassø Duus, Aarhus Vand
	Climate adjustment and CO₂ savings goes hand-in-hand Stella Jensen, Kolding Kommune/BlueKolding

Practical information including price

- Conference Fee – Early Bird Discount until 31 August – 5.495,- DKK
- Standard Conference fee – 5.995 DKK – Conference fee for presenters – 3.995,- DKK
- Conference registration: www.nordiwa.org
- Conference fee includes Opening Reception and Conference Dinner.
- Information about hotel booking and being a tourist in Aarhus: www.visitaarhus.dk/turist-i-aarhus
- Conference language is English

Conference Venue

The conference will be held at the four-star hotel Comwell Aarhus, close to the city centre and central station and Centralværkstedet, former train workshop, praised for its atmosphere and wonderful food. Conference dinner will take place at Centralværkstedet.



Technical tours & Social programme

- On Oct. 12 we organise technical tours with the opportunities to visit wastewater treatment plants in Billund, Aarhus or Aalborg or a Climate tour to different sites in Aarhus.
- Reaching international flights can be combined with a visit to Billund Biorefinery and Aalborg, where busses will take you from the technical tour sites to the nearby airports.
- Marselisborg Wastewater Treatment Plant.
- Billund Biorefinery.
- Aalborg Øst Wastewater Treatment Plant, Environment and Energy Project.
- Climate tour Aarhus.
- Social programme consists of:
 - Day 1: Opening Reception at AROS Art Museum
 - Day 2: Conference Dinner at Centralværkstedet

PROGRAMME COMMITTEE

Daniel Hellström	IWA (Svenskt Vatten)
Anders Finnson	Svenskt Vatten
Helle Kayerød	DANVA
Dorte Skræm	DANVA
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