

NORDIWA

NORDIWA wastewater conference online

28 September – 1 October 2021



Leading Nordic event for water professionals

FIWA, DANVA, Norsk Vann, Samorka and Svenskt Vatten invite all water professionals with an interest in wastewater, sewerage and climate change mitigation and adaptation to join us at NORDIWA 2021.

We and 200 presenters engaged in five parallel tracks, welcome experts and practitioners, managers and operators, city planners, researchers, engineers, advisors and others with an interest in wastewater management, urban drainage and climate adaptation in the Nordic region.

All presentations will be recorded and also available during October and November for the participants at NORDIWA 2021.

www.nordiwa.org #nordiwa2021





Welcome to NORDIWA 2021

We look forward to welcoming all of you to the online format of the Nordic Wastewater Conference 2021. The interest among practitioners, experts and researchers to present and share their latest results, knowledge and experiences, has this pandemic year just been overwhelming. Among all the abstracts we accepted 200 exciting presentations and five workshops. The eagerness to share with others has never been so obvious.

The Nordic Wastewater Conference is now being arranged for the seventeenth time. While longing to meet physically again - we hope to maintain NORDIWA 2021 as a venue for exchanging practical knowledge and the latest information, where participants have the opportunity to network and learn from each other's experiences and practices.

Good news for those who do not have enough split vision to watch five parallel tracks simultaneously - all presentations will be recorded and available to also watch during October and November for participants at NORDIWA 2021.

On behalf of the Programme Committee
Anna Norström, Magnus Bäckström and Anders Finnson
www.svensktvatten.se/om-oss/kontakt/

Svenskt Vatten



Anna Norström



Magnus Bäckström



Anders Finnson



Keynote speakers



Opening of NORDIWA 2021.

Pär Dalhielm, CEO Svenskt Vatten



Future of water, global drivers of change.

Kala Vairavamoorthy, Executive Director
International Water Association



The European Green Deal, the water policy and how it will shape the water industry for the coming decades.

Veronica Manfredi, Director, Quality of Life, Directorate
General for Environment, European Commission



Wastewater-based surveillance of SARS-CoV-2 supports national COVID-19 pandemic response in Finland

Tarja Pitkänen, Chief Specialist, Department of Health
Security, the Finnish Institute for Health and Welfare;
and Associate Professor, Department of Food Hygiene
and Environmental Health, University of Helsinki



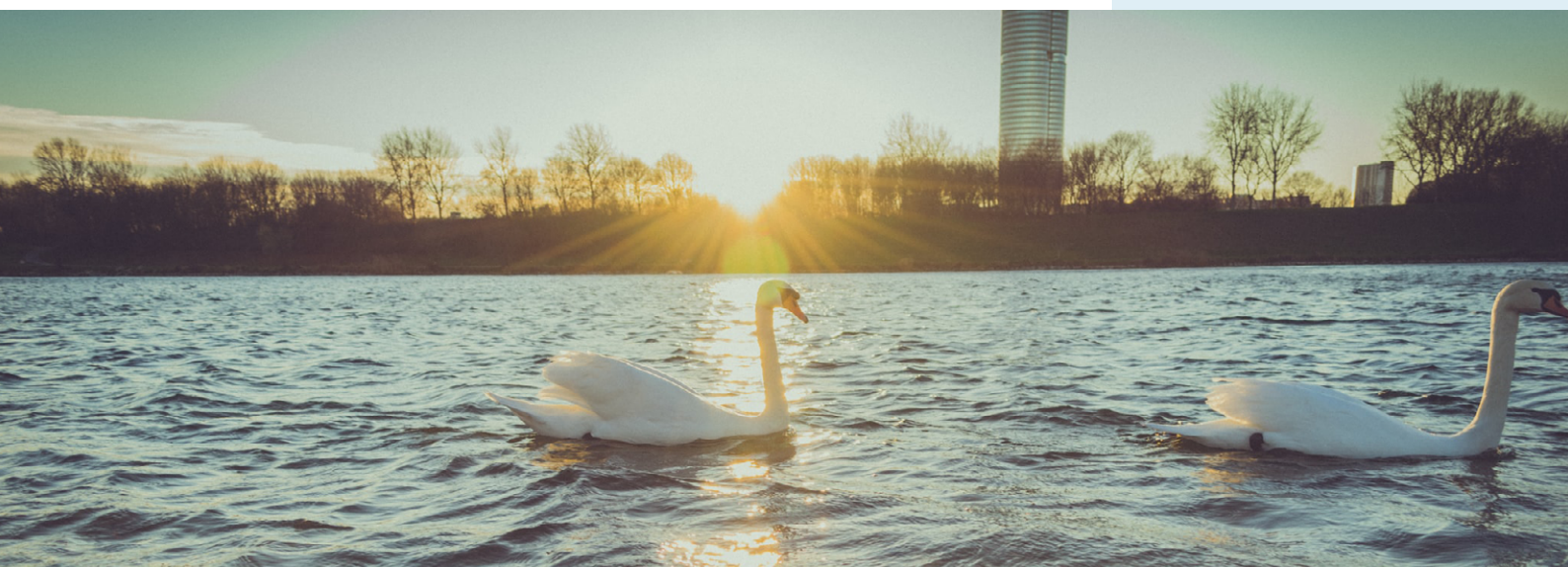
A holistic approach to develop a sustainable concept for a New Sjölanda WWTP in a regional system

Göran Johnsson, project manager VA SYD
Maria Jonstrup, R&D manager, EnviDan AB



Conference Elements

- Opening of the conference and plenary session with keynote speakers, who will illustrate challenges and new development in the water sector.
- Conference sessions with full presentations (15 minutes) and speed talks (5 minutes) highlighting key findings of projects and results. Possibilities for a broad digital interactivity between presenters, participants and moderators.
- All presentations will be recorded and being available during October and November for all the participants at NORDIWA 2021.
- Workshops facilitate knowledge sharing and discussion between the presenters and the participants of the conference.
- Every morning starts with 30 minutes summary of the highlights from the previous day.



Workshops

- Power of positivity - the road towards a Nordic carbon and energy positive future
- The "not so clear" crystal ball - the water resource Recovery Facility of the future must be adaptable
- Paradigm shift within stormwater and cloudburst management
- On-site and fast DNA-analyses of microbial communities for surveillance and control
- From online NORDIWA 2021 to IWA Copenhagen 2022

Young Water Professionals

A special session will be organised for Young Water Professionals in the Nordic region.

Digital technical tour

Gothenburg is celebrating 400 years as a city this year and since 1621 the city has developed into a modern industrialized city with a population of 600 000. In the middle of the 1800's the sewer systems began to be built to transport wastewater from the city center and into the Göta estuary that flows through the city towards the sea.

In 1972 The Rya WWTP was commissioned which included a 130 km tunnel system. Since then the plant has grown and today it serves a population equivalent of 800 000 from eight municipalities. Looking towards the future the population within the region is increasing and more stringent

discharge consents are also expected. To handle our future challenges Gryaab has started an expansion project called New Rya with the objective that new treatment processes will be ready for action in 2036.

Social program

- Welcoming digital reception on Tuesday, 28 September.
- Digital surprises

Digital Exhibition

Showcase of companies and solutions. To enable networking a digital area will be created for exhibitors.

Key dates

- 1 June, registration opens for the conference.
- 21 September, last date for registration.
- 28 September - 1 October, Conference take place.

Programme Committee NORDIWA 2021

Lise Hughes, Aarhus Vand A/S, (IWA) • Miriam Feilberg, DANVA • Marina Graan, Helsinki Region Environmental Services Authority, (IWA)
• Mika Rontu, FIWA • Paula Lindell, FIWA • Fjóla Jóhannesdóttir, Veitur (IWA) • Magnar Sekse, Bergen (IWA) • Arne Haarr, Norsk Vann • Anna Norström, Svenskt Vatten (IWA) • Magnus Bäckström, Svenskt Vatten • Anders Finnson, Svenskt Vatten



Registration and participant fees

Registration

www.nordiwa.org

Category	Fee
Delegates	9 375 SEK (7 500 excl. VAT)
Speaker (Full presenter/Speak talk)	5 625 SEK (4 500 excl. VAT)
Moderator/Workshop	5 625 SEK (4 500 excl. VAT)
Exhibitor package incl 1 person	10 000 SEK (8 000 excl. VAT)
Extra exhibitor (not included in the package)	9 375 SEK (7 500 excl. VAT)
Student	4 994 SEK (3 995 excl. VAT)

Registration includes

- Admission to the digital program with presentations, exhibition and abstracts, available for two months after the conference has taken place.


Exhibitor package includes

- Infopage with text, image and/or film
- Contact information
- Links to the company's social media
- Live chat with the participants
- Live meeting in the exhibitor booth
- Notice of interest from the participants
- 1 registered company representative
- Access to the scientific sessions for 1 registered company representative

Themes at NORDIWA 2021

Main Topics

NORDIWA presents a diverse conference with five main topics

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|---|--|---|---|
|  | 1. Climate challenges, mitigation and adaptation |  | 4. Circular economy, resources and reuse |
|  | 2. Sewer systems, management, models and integrated approaches |  | 5. Sustainable management and communication |
|  | 3. Sustainable wastewater treatment and challenge of micropollutants | | |

For more information and updates
please visit us at nordiwa.org

Tuesday 28 September 2021

09:00	Plenary 09:00-10:30 Chair: Anders Finnson
	Opening of NORDIWA 2021. Pär Dalhielm, CEO Svenskt Vatten
	Future of Water, a climate perspective. Kala Vairavamoorthy, Executive Director International Water Association
	The European Green Deal, the water policy and how it will shape the water industry for the coming decades. Veronica Manfredi, Director, Director, Quality of Life, Directorate General for Environment, European Commission
	Wastewater-based surveillance of SARS-CoV-2 supports national COVID-19 pandemic response in Finland Tarja Pitkänen, Chief Specialist, Department of Health Security, the Finnish Institute for Health and Welfare; and Associate Professor, Department of Food Hygiene and Environmental Health, University of Helsinki
	A holistic approach to develop a sustainable concept for a New Sjölanda WWTP in a regional system Göran Johnsson, project manager VA SYD Maria Jonstrup, R&D manager, EnviDan AB

11:00	Upstream diffuse sources 11:00-12:30 Chair: Per Henrik Nielsen	Communicating risks and opportunities 11:00-12:30 Chair: Fjóra Jóhannesdóttir	Reuse of wastewater 11:00-12:30 Chair: Maj Møller Sørensen	Sewer management to reduce overflow 11:00-12:30 Chair: Peter Underlin	Workshop Power of positivity – the road towards a Nordic carbon and energy positive future 11:00-12:30 Chair: Miriam Feilberg
	New hazardous substances in Finnish wastewater treatment plants Niina Vieno	Stormwater management – get citizens on board! Isabel Seifert-Dähnn	Which Water Source Should be Used for Different Water Usages? Esmeralda Frihammar	Experiences in rising main monitoring in wastewater pumping stations Perttu Saarinen	
	Characteristics of household wastewater in Skarpnäck 2014-2019 Anders Ljung			Managing infiltration and inflow to wastewater systems – Key aspects in a risk-based approach Anna Ohlin Saletti	
	Mapping microplastics in urban waters - flows, solutions, and actor responsibility Emma Fältström	Digitalization – communicating flood and pollution risks to stakeholders Hanna Rissanen	Possibilities of large-scale wastewater reclamation for potable use in Scania, Sweden Olivia Söderman Söderman	Localizing Intruding Rainwater in Separated Sewer Systems Ørjan Heggdal	
	Monitoring micropollutants in wet-weather discharges – what can we learn from the past? Lena Mutzner		Removal of pharmaceutical residues from RO-concentrates from water reuse facility on Gotland island Christian Baresel	Fractionation of Unwanted Water using Machine Learning and Time Series Analysis Christian Svensson	
	Photodegradation of macroplastics into microplastics – a laboratory study of four plastic debris Lisa Öborn	Implementation of Sustainable Drainage Systems - How to change a mindset? Halldora Hreggvidsdottir	Removal of pharmaceutical residues from RO-concentrates from water reuse facility on Gotland island Christian Baresel	The roles of model-based simulation and direct flow measurements in CSO data-analytics Hannes Björninen	

14:00	Asset management tools 14:00-15:30 Chair: Niels Vinderslev Bjerregaard	Enhanced nutrient removal 14:00-15:30 Chair: Dines Thornberg	Upstream point sources 14:00-15:30 Chair: Ann Mattsson	Stormwater pollutants 14:00-15:30 Chair: Asbjørn Haaning Nielsen	Workshop On-site and fast DNA-analyses of microbial communities for surveillance and control 14:00 - 15.30 Chair: Per Halkær
	Rehab-IT: An Asset Management Tool for Renewal Planning Mads Uggerby	Full scale study – Sludge capacity test on sand filter for polishing of municipal wastewater Sofia Bramstedt	Results from testing program for pharmaceuticals at Egaa WWTP and at the hospital of Aarhus, Denmark Laura Bailón Allegue	Removal of particles, heavy metals and detergents from tunnel wash water Hanne Vistnes	
	7 years of experience with Asset Management and long-term operation and invest-ment planning Benny Nielsen	Where did the phosphorus go? Sofia Andersson	Treatment of landfill leachate from PFAS: process selection based on pilot-scale tests Andriy Malovanyy	Occurrence and treatment of microplastics and car tire rubber in stormwater Steen Petersen	
	Asset Management in Swedish Water and Wastewater sector – results from a research a project Magnus Montelius	Densadeg XRC technology to reduce phosphorus discharge from Skanderborg wastewater treatment plant Clara Barret		An overview of continuous stormwater quality monitoring technologies Nikita Razguliaev	
	From key figures to key performance indicators with spatial data Jukka Heinonen	Effect of coagulants agent on sewage water treatment and sludge production: A pilot study Annaliza Cainglet	Innovative technology concept removes and destructs perfluorinated-acids from water Maria Nymann	A large-scale mapping of stormwater runoff from heavily trafficked areas. Case study Gothenburg Helen Galfi	
	From data to optimized asset management Kia Aksela	Effect of VFA rich hydrolysates from different substrates in the denitrification process Andrea Carranza Muñoz	Tire and road wear particles in roadside snow banks: Quantities and dynamics of release Arya Vijayan	Removal of dissolved metals from road runoff – Initial observations and implications for operation Magnus Hallberg	

08:30	Highlights from Day1 08:30-09:00				
09:00	Management for sustainability 09:00-10:30 Chair: Halldóra Hreggviðsdóttir	H2S 09:00-10:30 Chair: Per Henrik Nielsen	Recycling and recovery of nutriens 09:00-10:30 Chair: Torgeir Saltnes	Strategies for digitalisation 09:00-10:30 Chair: Erik Lindblom	Workshop Paradigm shift within stormwater and cloudburst management 09:00-10:30 Chair: Marinette Hagman
	Advanced Hydraulic Representation of Blue Green Infrastructure Jessica Jefferys	Cost efficient and sustainable reduction of hydrogen sulphide Maria Jonstrup	Innovative technology to remove nitrogen and produce climate smart fertilizers Carl-Johan Högberg	Metadata and their role in the digital transformation of Water Resource Recovery Facility operations Oscar Samuelsson	
	Survey on Sustainability and the SDGs Niina Vieno	Novel sensor for hydrogen sulfide monitoring in sewers enables improved odor and corrosion control Søren Porsgaard	Comprehensive nutrient recovery at wastewater treatment plant by RAVITA process Sini Reuna	Catchment overview for cross-boundary corporation flood risks Peter Rasch	
	Swedish utilities and their contributions to the SDG:s – status and recommendations for the future. Magnus Arnell	Sewer Process Modelling as a Tool to Predict and Manage Odour and Corrosion in a Drainage System Esther Vollertsen	Is it safe to use sewage sludge-based fertilizers in agriculture? Katri Senilä	Extreme Weather Layer as a tool towards climate resilient cities Ivar Annus	
	Learning from a resource-recovery game for collaborative urban sanitation planning Jennifer R. McConville	Biological pre-treatment upstream the WWTP – using the sewers as a process volume Mark De Blois	Recovering phosphorus from chemical phosphorus removal sludge: A techno-economic comparison Juho Uz Kurt Kaljunen	VeVa – a Danish water utility association utilising weather radar data for watersector applications Malte Ahm	
	Benefits of water sector integration to energy systems Dominik Franjo Dominković	Advanced digital solution to control hydrogen sulfide in sewers Johan Egsgaard Thomsen	Ash2®Phos: Closing the phosphors cycle: Value added recycling from incinerated sewage sludge Yariv Cohen	Smart Stormwater systems aiding to retrofit urban areas for new climate conditions Nils Kändler	
		Evaluating the effectiveness of lime-based filter-media on sewer air hydrogen sulphide Asbjørn Haaning Nielsen	The Road to Full-Scale Biochar Production Per Henrik Nielsen	Stormwater data management in the Helsinki Capital Region Maiju Happonen	
11:00	An overview of possibilities for resource recycling and recovery 11:00-12:30 Chair: Maj Møller Sørensen	Anammox and Aerobic Granular Sludge 11:00-12:30 Chair: Sofia Andersson	Dealing with uncertainty 11:00-12:30 Chair: Fjóra Jóhannesdóttir	Digital tools 11:00-12:30 Chair: Hannes Björninen	Workshop Young Water Professionals – Knowledge transfer in the Nordic Water Sector 11:00-12:30 Chair: Christoffer Wärrf
	Experimental and desktop assessment of wastewater treatment solutions for resource recovery Herman Helness	Supervising and observing the implementation of granular sludge technology, S::Select® Ditte Marie Hansen	Vital climate change solutions integrated in major Norwegian infrastructure project Jan Scheel	Protection and warning against faecal bacteria and toxic algae in bathing lakes Rikke Markfoged	
	From Urban Biowaste to Animal Feed - Proteins from Biogas Jacob Kragh Andersen		Planning Sustainable Infrastructure using BREEAM Communities Sigurdur Sigmarsson	IoT as an enabler for Distributed Online Monitoring of the Urban Water Cycle Malte Ahm	
	Recommendations for improved life cycle assessments of sewage sludge as fertilizer Magdalena Svanström	Stable operation of the first AGS application in the Nordic countries Mark de Blois	Drilling within Reykjavík’s city limits – improving understanding of groundwater levels and shallow subsurface permeability Sigrún Tómasdóttir	Model predictive control for the sewer system in Kolding, Denmark Nikolaj Mølby	
	Source-separation sanitation systems for Northern Finland – effects on regional nutrient balance Vuokko Laukka	Installation and Start-up of the first MABR Drop In solution in UK Josep Manzano	Citizen science can help solve climate-derived groundwater problems Anja Sloth Ziegler	The Living Digital Twin of the urban drainage system in Odense, Denmark Agnethe Nedergaard Pedersen	
	From WWTP to a WRRF with the Hias Process Torgeir Saltnes	Start-up of partial denitratation-anammox MBBR systems with a partial nitrification-anammox inoculum David J. I. Gustavsson	Monitoring of water runoff from construction sites and in the stormwater system Anton Jacobson	3D Visualization, Cloudburst Modeling and Planning Bo Kempel	
			Multi-objective assessment of nature-based climate adaptation considering future uncertainty Ida Linde Hansen	The Digital Water Cities project Dines Thornberg	
			Challenges of the coastal urban drainage system under climate change in Trelleborg, Sweden Salar Haghighatafshar	Automatic Anomaly Detection for Sewage Network Sensors Peter Rasch	

08:30	Highlights from Day 2 08:30-09:00			
09:00	Micropollutants - an overview 09:00-10:30 Chair: Arne Harr	CCTV and data for asset management 09:00-10:30 Chair: Hans Bäckman	Sludge management 09:00-10:30 Chair: Herman Helness	MBR and membrane based treatment 09:00-10:30 Chair: Marina Graan
	Full scale removal of Active Pharmaceutical Ingredients from wastewater treatment plants Sille Larsen	Digital materials and methods in water distribution and sewage network asset management in Finland Heini Postila	Semi full-scale study - High loaded mesophilic anaerobic digestion of primary sewage sludge Gustav Björk	Stockholm’s Future Wastewater Treatment – long term pilot trials with an MBR process Sofia Lovisa Andersson
	Micropollutant contamination of soil and groundwater at two wastewater drainage fields Rasmus Klapp	Novel Sewer Surveys at HSY Jussi Kuikka	Post-digestion thermal hydrolysis for a more cost-efficient sludge drying and incineration Norman Weisz	Commissioning of Swedens first large scale MBR-process - setbacks and successes Sofia Andersson
		In depth analysis of the features contributing to the performance of sewer deterioration models Bolette Hansen	Modelling of thermophilic digestion and experimental calibration in semi full-scale digestion Ted Lundwall	Testing Membrane-Aerated Biofilm Reactors under Nordic conditions Nerea Uri-Carreño
	Selection of Process Design for Micropollutant Reduction – with Unclear Legal Requirements Jacob Kragh Andersen		Input data induced uncertainty in sewer deterioration models Franz Tscheikner-Gratl	Comparison of sludge management alternatives and resource recovery Blanca Magdalena Gonzalez Silva Blanca Magdalena Gonzalez Silva
	Driving forces for implementation of organic micropollutant removal in Swedish wastewater Maja Ekblad	Wastewater Components Determine Renovation and Maintenance Plans Tomi Lukkarinen		Continuous solids measurements and an optimization control application enhance sludge drying Heli Karaila
				How low can we go? – mesophilic and thermophilic digestion of WWT sludge at short retention times Sofia Andersson
			Circular Economy with Sludge - A Novel Solution Prem Verma	
11:00	Stormwater planning 11:00-12:30 Chair: Lena Blom	Micropollutants with a focus on microplastics and antibiotics 11:00-12:30 Chair: Peter Tychsen	Wastewater treatment 11:00-12:30 Chair: David l’Ons	
	New Tool Enables Early Integration of Nature Based Stormwater Solutions in Urban (re)Developments Sara Maria Lerer	Prevalence of Antibiotic Resistance in Full-Scale Sewage Sludge Treatment Processes Maria Valtari	Effect of cold climate conditions on municipal wastewater treatment in constructed wetlands Lina Büngener	
	Combined impacts of sustainable stormwater systems and climate change on runoff and pollutant loads Nora Sillanpää	Fate and removal efficiency of microplastics in a wastewater treatment plant Rupa Chand	Experiences of low pressure sewer (LPS) systems in Sweden Solveig Johannesdottir	
		Micropollutants and Microplastics in a Membrane BioReactor (MBR) Katja Närhi	Bromma WWTP strikes back Hanna Gottås	
	Mapping land cover with Machine Learning provides new possibilities in surface water planning Morten Revsbæk	Comparison of activated sludge processes for antibiotics removal from wastewater at cold temperature Antonina Kruglova	Characteristics of municipal wastewater in south-west Sweden Mark De Blois	
	Water and climate are carefully orchestrated in the construction of a new urban district Åsa Malmång Pohl	Minimization of plastic emissions from WWT plants through development of biodegradable flocculants Laura Agneessens	Treatment efficiency of small-scale package plants in northern Sweden and Finland Brenda Vidal	
		Redefining boundaries – A Nordic collaboration for streamlined and accessible catchment modelling Hannes Björninen	Sundsvall’s different wastewater management strategies, needs for and effects on advanced treatment Malin Tuve	Factors affecting effluent quality from on-site wastewater treatment systems in Nordic countries Juho Kinnunen
				Joint Procurement of Ferrous Sulphate - Cooperation Between Water Management Utilities Marina Graan

08:30	Highlights from Day 3 08:30-09:00				
09:00	Management of N2O 09:00-10:30 Chair: Anna Mikola	Micropollutants advanced treatment #1 09:00-10:30 Chair: Lise Karstenskov Hughes	Modelling and control #1 09:00-10:30 Chair: Maria Valtari	Performance of stormwater facilities 09:00-10:30 Chair: Nora Sillanpää	Workshop The "not so clear" crystal ball - the water resource Recovery Facility of the future must be adaptable 09:00-10:30 Chair: Dines Thornberg
	N2O Emissions from Danish WWTPs – National Emissions and Reduction Potential Anna Katrine Vangsgaard	Tracking the adsorption profiles of organic micropollutants in a granular activated carbon filter Ellen Edefell	Improving data quality with mass balances and data reconciliation Oscar Samuelsson	Mini-raingardens for managing stormwater from rooftops Johanne Grøndahl Klausen	
	Nitrous Oxide Emissions - Lessons Learned at Ejby Mølle Nerea Uri-Carreño	The challenge of simultaneous removal of pharmaceutical residues and PFAS at Uppsala WWTP Anna Maria Sundin		Roadside trees drink stormwater in innovative solution for urban climate adaptation Esben Ravn Iversen	
	Identifying Nitrous Oxide Emissions in different scenarios in Henriksdal Wastewater Treatment Plant Kristina Stark Fujii	Pilot trials with pulverized activated carbon in combination with Membrane BioReactor (PAC-MBR) Christian Baresel	Integrating COD and SS for prediction of organic micropollutant removal in ozonation of wastewater Rubén Juárez	Occurrence and concentrations of organic micropollutants in bioretention filter media Robert Furén	
	Update for the full-scale testing of N2O mitigation strategies at the Viikinkaari WWTP Kati Blomberg	Direct membrane filtration followed by granular activated carbon filtration for wastewater treatment Simon Gidstedt		Applicability of using sedimentation and membrane filtration for stormwater treatment Saida Kaykhaili	
	Quantification and reduction of nitrous oxide emissions from Wastewater Treatment plants Anders Lynggaard-Jensen	Large-scale pilot tests using an MBR-GAC configuration for micropollutant removal at Syvab Ross Roberts	Plant-wide dynamic WWTP modelling for sustainability evaluation of phosphorus removal techniques Magnus Rahmberg	This carpark is also a retention basin for rainwater Esben Ravn Iversen	
	Nitrous oxide emissions and carbon harvesting by prefiltration. Case of Avedøre WWTP (VARGA project) Artur Tomasz Mielczarek	Comparison of UV-H2O2 and ozone oxidation for the removal of pharmaceutical residues Anneli Andersson Chan		Efficient dewatering of sediment from rainwater basins Simon Østergaard Jensen	
			Evaluation of the hydraulic capacity and maintenance of nine rain gardens in Oslo Nevedda Sivakumar		
11:00	Micropollutants advanced treatment #2 11:00-12:30 Chair: Peter Tychsen	Wastewater and the climate, our contribution to lowering global emissions 11:00-12:30 Chair: Lovisa Gelotte	Modelling and control #2 11:00-12:30 Chair: Oscar Samuelsson	Stormwater management in a challenging cold climate 11:00-12:30 Chair: Lena Blom	Workshop From online NORDIWA 2021 to IWA Copenhagen 2022 11:00-12:30 Chair: Miriam Feilberg
	Removal of micropollutants from wastewater effluent using a mobile pilot E-peroxone and ozonation Majid Mustafa	ARES Active Reduction of Emissions from wastewater Systems Per Henrik Nielsen	The AMOZONE O3 digital twin of the Linköping WWTP, Sweden: prediction of pharmaceuticals removal Giacomo Bellandi	Improving winter environmental practices: Urban snow management tool (SMT) Jiri Marsalek	
	Can bromate reduction in anoxic MBBRs enable ozonation of bromide rich-wastewater in coastal areas? Per Falås	Carbon footprint assessment of wastewater treatment plants: Case studies from Finland Alexis Awaitey		Retention of snowmelt and rain from extensive green roofs during the snow-covered period Bent Braskerud	
	Tracking 14C-labeled micropollutants to separate degradation from adsorption in carbon filters Alexander Betsholtz	Greenhouse gases - How do we deal with them? Mikkel Algren Stokholm-Bjerregaard	Flexible Management of WRRF Objectives Using Nonlinear Model Predictive Aeration Control Peter Alexander Stentoft	Variability of the hydrologic performance of green infrastructures due to Swedish climatic regimes Ivan Mantilla	
	Ozonation of xenobiotic compounds from wastewater containing bromide Sille Larsen	Greenhouse Gas Reduction through Holistic Approach to Sludge Digestion Jan Høgh	Continuous Optimization of an Industrial Symbiosis using real-time online measurements Sille Larsen		
12:30	Closing remarks 12:30-12:45				