

Thursday, 15 September



<b>Track 1</b> <b>WATER UTILITY MANAGEMENT</b>	<b>Track 2</b> <b>WASTEWATER TREATMENT AND RESOURCE RECOVERY</b>	<b>Track 3</b> <b>DRINKING WATER AND POTABLE REUSE</b>	<b>Track 4</b> <b>CITY-SCALE PLANNING AND OPERATIONS</b>	<b>Track 5</b> <b>COMMUNITIES, COMMUNICATION AND PARTNERSHIPS</b>	<b>Track 6</b> <b>WATER RESOURCES AND LARGE- SCALE WATER MANAGEMENT</b>
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# Thursday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:50</b>	
Keynote: Wastewater Gone Viral: Pandemic Signals From the Sewers, <a href="#">Gertjan Medema</a> Panel: <a href="#">Joan Rose</a> , <a href="#">Jay Bhagwan</a> , <a href="#">Jonathan Hoffmann</a> , <a href="#">Lasse Dam Rasmussen</a> , <a href="#">Ana Maria de Roda Husman</a> , <a href="#">Marta Vargha</a>		
<b>Coffee Break</b>	<b>09:50 - 10:30</b>	
<b>Session 1</b>	<b>10:30 - 12:00</b>	
		<p><b>REGULATORS FORUM IV — CLOSING PLENARY: REGULATING WATER SERVICES IN TIMES OF INCREASING NATURAL, SOCIAL, AND ECONOMIC UNCERTAINTY</b></p> <p>Chair: <a href="#">Carlos Díaz</a>, <i>Peru</i></p> <p>The 7th International Water Regulators Forum offers a platform for water sector regulators from all over the world to exchange experiences, transfer skills and build new partnerships. It gathers high-level representatives of regulatory authorities and officials of agencies with regulatory and supervisory functions over the provision of water, sanitation, and drainage services, as well as their peers from public health and environmental regulators. The discussions will focus on how regulatory functions are being supplied in times of increasing natural, social, and economic uncertainty. During the Forum, discussions are structured around highly interactive sessions that combine short inspirational presentations and roundtable discussions led by the speakers.</p> <p><b>Open for all participants</b></p>
		<b>Room A3 Forum</b>
<b>Lunch</b>	<b>12:00 - 13:30</b>	
<b>Session 2</b>	<b>13:30 - 15:00</b>	
		<p><b>REGULATORS FORUM V — COPING WITH UNCERTAINTY: FORWARD-LOOKING APPROACHES TO COPE WITH UNCERTAINTY AND HELP DELIVER REGULATORY MANDATES</b></p> <p>Chair: <a href="#">Jaime Baptista</a>, <i>Portugal</i></p> <p>The 7th International Water Regulators Forum offers a platform for water sector regulators from all over the world to exchange experiences, transfer skills and build new partnerships. It gathers high-level representatives of regulatory authorities and officials of agencies with regulatory and supervisory functions over the provision of water, sanitation, and drainage services, as well as their peers from public health and environmental regulators. The discussions will focus on how regulatory functions are being supplied in times of increasing natural, social, and economic uncertainty. During the Forum, discussions are structured around highly interactive sessions that combine short inspirational presentations and roundtable discussions led by the speakers.</p>
		<b>Room A3 Forum</b>
<b>Break</b>	<b>15:00 - 15:15</b>	
<b>Closing Ceremony</b>	<b>15:15 - 16:45</b>	
Including Poul Harremoës Lecture by Prof. Wolfgang Rauch		
<b>Gala Dinner</b>	<b>Evening</b>	

<b>Keynote Plenary</b>	<b>09:00 - 09:50</b>
Keynote: Wastewater Gone Viral: Pandemic Signals From the Sewers, <a href="#">Gertjan Medema</a> Panel: <a href="#">Joan Rose</a> , <a href="#">Jay Bhagwan</a> , <a href="#">Jonathan Hoffmann</a> , <a href="#">Lasse Dam Rasmussen</a> , <a href="#">Ana Maria de Roda Husman</a> , <a href="#">Marta Vargha</a>	
<b>Coffee Break</b>	<b>09:50 - 10:30</b>
<b>Session 1</b>	<b>10:30 - 12:00</b>

<b>Lunch</b>	<b>12:00 - 13:30</b>
<b>Session 2</b>	<b>13:30 - 15:00</b>

#### CSU RECOGNITION PROGRAMME

Room C1  
Climate Smart

Chair: [Carlos Diaz](#), *International Water Association*

The IWA Climate Smart Utilities Recognition Programme aims to inspire utilities and all their stakeholders to transition to be increasingly Climate Smart and to embrace the cultural shift on three interconnected pillars for action:

- Adaptation: Resilience in the face of climate change is increased.
- Mitigation: GHG emissions are assessed and aim to be reduced.
- Leadership: You are a national, regional, or international champion.

This Recognition Programme builds on the vision endorsement, where utility leaders around the world committed to endorsing a shared vision to build momentum for greater progress. The objective of the programme is to celebrate utilities on the journey to becoming climate smart. This session will showcase adaptation and mitigation actions taken by celebrated utilities according to the framework of IWA Climate Smart Utilities.

Speakers: [Carlos Diaz](#), *Manager Climate Smart Utilities Initiative, IWA (UK)*, [Brenda Apomah](#), *Programmes Officer Climate Smart Utilities Initiative, IWA (UK)*, [Norbert Jardin](#), *Ruhrevband, CEO (DE)*, [Bernat Cami Xavier](#), *Aigües de Barcelona, Climate Action Director (ES)*, [Juan José Iervasi Scokin](#), *AySA, Technical Advisor (AG)*, [Pauline Ottoy](#), *De Watergroep, Program Manager R&D Circular Systems (BE)*, [Reshma Ghisaidoobe](#), *DUNEA DUNIN & WATER (NL)*

<b>Break</b>	<b>15:00 - 15:15</b>
<b>Closing Ceremony</b>	<b>15:15 - 16:45</b>
Including Poul Harremoës Lecture by Prof. Wolfgang Rauch	
<b>Gala Dinner</b>	<b>Evening</b>

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Keynote: Wastewater Gone Viral: Pandemic Signals From the Sewers, <a href="#">Gertjan Medema</a> Panel: <a href="#">Joan Rose</a> , <a href="#">Jay Bhagwan</a> , <a href="#">Jonathan Hoffmann</a> , <a href="#">Lasse Dam Rasmussen</a> , <a href="#">Ana Maria de Roda Husman</a> , <a href="#">Marta Vargha</a>			
<b>Coffee Break</b>	<b>09:50 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>6.13   INTEGRATED ASSESSMENT</b>		<b>Room C2 Technical</b>	<b>2.1.4-1   AEROBIC GRANULAR SLUDGE</b>
<b>Chairs:</b> <a href="#">Markus Starkl</a> , <a href="#">Austria</a> and <a href="#">Carmen Snowdon</a> , <a href="#">United Kingdom</a>			<b>Chairs:</b> <a href="#">Hallvard Ødegaard</a> , <a href="#">Norway</a> and <a href="#">Thiago Bressani Ribeiro</a> , <a href="#">Brazil</a>
The SADC revised protocol: a tool for an integrated climate action in southern Africa, <a href="#">Thomani Manungufala</a> , <a href="#">Parliament of the Republic of South Africa</a> , <a href="#">South Africa</a>			Could the treatment capacity of a continuous wastewater treatment plant be increased with aerobic granular sludge? <a href="#">Laurence Strubbe</a> , <a href="#">Ugent</a> , <a href="#">Belgium</a>
Evolving water resources management in response to socio-economical changes: Japanese experience in modernization over the past century, <a href="#">Mikio Ishiwatari</a> , <a href="#">The University of Tokyo</a> , <a href="#">Japan</a>			Assessing densification performance potential in continuous flow bioreactors — how to predict new hydraulic capacities for WWTPs, <a href="#">Densification Index (DI)</a> and <a href="#">SVI</a> ? <a href="#">Zamir Alam</a> , <a href="#">SUEZ WTS</a> , <a href="#">Canada</a>
Managing stormwater in South African neighbourhoods: when engineers and scientists need social science skills to get their jobs done, <a href="#">Craig Tanyanyiwa</a> , <a href="#">Future Water UCT</a> , <a href="#">South Africa</a>			Diffusion and enzymatic conversion of polymeric substrate in aerobic granular sludge, <a href="#">Merle de Kreuk</a> , <a href="#">TU Delft</a> , <a href="#">Netherlands</a>
Exporting Danish groundwater management to South Africa, <a href="#">Philip Grinder Pedersen</a> , <a href="#">Danish Environmental Protection Agency</a> , <a href="#">Denmark</a>			Results of the first AGS application in the nordic countries, <a href="#">Mark de Blois</a> , <a href="#">H2OLand AB</a> , <a href="#">Sweden</a>
----- POSTERS -----			
Reduction of greenhouse gas emissions from WWTPs, <a href="#">Anna Katrine Vangsgaard</a> , <a href="#">EnviDan</a> , <a href="#">Denmark</a>			
Development of water resources potential map for proper selection of water supply facilities considering regional characteristics in Bangladesh, <a href="#">Kazuyuki Suenaga</a> , <a href="#">Earth System Science</a> , <a href="#">Japan</a>			
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>5.6   INNOVATION &amp; ENTREPRENEURSHIP: DEVELOPING ENTREPRENEURIAL CAPABILITIES FOR THE WATER SECTOR</b>		<b>Room C2 Workshop</b>	<b>2.5   AEROBIC GRANULAR SLUDGE: INTENSIFYING AND GREENING WWTPS</b>
<b>Chairs:</b> <a href="#">Odwa Ntsika Mtembu</a> , <a href="#">South Africa</a> and <a href="#">Mbali Sibiya</a> , <a href="#">South Africa</a>			<b>Chairs:</b> <a href="#">Andreas Giesen</a> , <a href="#">Netherlands</a> , <a href="#">Bryce Figdore</a> , <a href="#">United States</a> and <a href="#">Mark van Loosdrecht</a> , <a href="#">Netherlands</a>
This highly interactive and collaborative training aims at equipping water professionals with the skills to develop entrepreneurial and innovative ideas to tackle challenges in the water sector.			The goal of the workshop is to disseminate current best-practices for AGS in SBR and FT systems and determine needs, and trigger collaboration, for scientific and application research that will enable more practitioners and societies across the globe to benefit from the sustainability advantages.
<b>Speakers:</b> <a href="#">Odwa Ntsika Mtembu</a> , <a href="#">World Merit South Africa (ZA)</a> , <a href="#">Mbali Sibiya</a> , <a href="#">Umgeni Water (ZA)</a> , <a href="#">Jacob Amengor</a> , <a href="#">University of Calgary (CA)</a> & <a href="#">Lee-Ann Modley</a> , <a href="#">University of Johannesburg (ZA)</a>			<b>Speakers:</b> <a href="#">Andreas Giesen</a> , <a href="#">Royal HaskoningDHV (NL)</a> , <a href="#">Mari Winkler</a> , <a href="#">University of Washington (US)</a> , <a href="#">Mark van Loosdrecht</a> , <a href="#">Delft University of Technology (NL)</a> , <a href="#">Bryce Figdore</a> , <a href="#">HDR (US)</a> , <a href="#">Per Overgaard Pedersen</a> , <a href="#">Aarhus ReWater (DK)</a> & <a href="#">Erik Rekswinkel</a> , <a href="#">Water Board Hoogheemraadschap De Stichtse Rijnlanden (NL)</a>
<b>Break</b>	<b>15:00 - 15:15</b>		
<b>Closing Ceremony</b>	<b>15:15 - 16:45</b>		
Including Poul Harremoës Lecture by Prof. Wolfgang Rauch			
<b>Gala Dinner</b>	<b>Evening</b>		

<b>Keynote Plenary</b>	<b>09:00 - 09:50</b>		
Keynote: Wastewater Gone Viral: Pandemic Signals From the Sewers, <a href="#">Gertjan Medema</a> Panel: <a href="#">Joan Rose</a> , <a href="#">Jay Bhagwan</a> , <a href="#">Jonathan Hoffmann</a> , <a href="#">Lasse Dam Rasmussen</a> , <a href="#">Ana Maria de Roda Husman</a> , <a href="#">Marta Vargha</a>			
<b>Coffee Break</b>	<b>09:50 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>2.4.1   DEDICATED TREATMENT</b>	<b>Room B5 a Technical</b>	<b>6.16   HOLISTIC APPROACHES TO SOLVING CONFLICTS ABOUT WATER</b>	<b>Room B5 b Workshop</b>
Chairs: <a href="#">Tom Williams</a> , <i>United Kingdom</i> and <a href="#">Pritha Chatterjee</a> , <i>India</i> METlands: performance of a new intensified nature-based wastewater treatment system, <a href="#">Carlos A. Ramirez-Vargas</a> , <i>Aarhus University, Denmark</i> Factors affecting effluent quality in on-site wastewater treatment systems in cold climate regions, <a href="#">Juho Kinnunen</a> , <i>University of Oulu, Finland</i> Removal of perfluoroalkyl substances (PFass) in industrial runoff water, <a href="#">Eilen Arctander Vik</a> , <i>Aquateam COWI, Norway</i> Scaling-up the production of volatile fatty acid from dairy wastewater, <a href="#">Celia María Castro Barros</a> , <i>CETAQUA (Water Technology Center), Spain</i> ---- POSTERS ---- Pilot-scale recovery of nickel and cobalt from mine drainage water, <a href="#">Malgorzata Szlachta</a> , <i>Geological Survey of Finland, Finland</i> Preliminary results of an on-site pilot-scale experiment to improve tertiary agri-food effluent using customized floating treatment wetlands, <a href="#">Rita Abi Hannal</a> , <i>MT Atlantique, France</i>	Chairs: <a href="#">Ulrike Gayh</a> , <i>Germany</i> and <a href="#">Andrea Gerber</a> , <i>Germany</i> The objective is to develop innovative and sustainable project ideas to solve the most common conflicts related to water issues while considering the economic, social, and environmental aspects. Speakers: <a href="#">Ulrike Gayh</a> , <i>SRH University Heidelberg (DE)</i> , <a href="#">Andreas Gerber</a> , <i>SRH University Heidelberg (DE)</i> & <a href="#">Belen Zevallos</a> , <i>SRH University Heidelberg (DE)</i>		
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>2.3.4   OTHER PHYSICO-CHEMICAL TREATMENT TECHNIQUES</b>	<b>Room B5 a Technical</b>	<b>3.11   MICROBIAL, CHEMICAL, AND BY-PRODUCT RISK AND MANAGEMENT</b>	<b>Room B5 b Technical</b>
Chairs: <a href="#">David Garman</a> , <i>Australia</i> and <a href="#">Joseph Maudjorm</a> , <i>Germany</i> Enhanced phosphorus removal in dewatering filtrate with CO <sub>2</sub> stripping and surface-modification of steel-slag, <a href="#">Junghyeon Kim</a> , <i>Pusan National University, Republic of Korea</i> Molecular two phase properties of water, can this be exploited? <a href="#">Michael Bache</a> , <i>BA Chemical ApS, Denmark</i> Use of Atmospheric Dissolved Air Flotation (DAF) in removal of surfactants, <a href="#">Ali Rostamiranagh</a> , <i>Water and Wastewater Company East Azarbaijan Province, Azerbaijan &amp; Azarbaijan Shahid Madani University, Iran</i>	Chairs: <a href="#">Daisuke Sano</a> , <i>Japan</i> and <a href="#">Mads Koustrup Jørgensen</a> , <i>Denmark</i> Maximum formation potential of trihalomethanes in tap water by heating: monitoring parameter considering household water use, <a href="#">Akifumi Abe</a> , <i>Waterworks Bureau, City of Kawasaki, Japan</i> Development of metabolism-coupled cell-independent anti-acetylcholinesterase assay for evaluating change in toxicity of organophosphorus insecticides during chlorination, <a href="#">Taku Matsushita</a> , <i>Hokkaido University, Japan</i> Optical sensors in turbid waters: Abspectroscopy, a Python toolbox for absorbance-based sensor data, <a href="#">Claudia Cascone</a> , <i>IVL Swedish Environmental Research Institute, Sweden</i> The implication of unmanaged sanitation practices in water bodies: a review from ten Nepalese cities, <a href="#">Jagam Shrestha</a> , <i>Environment and Public Health Organization, Nepal</i> ---- POSTERS ---- What's in your water? Rapid water quality assessment for low resource settings, <a href="#">Esther Shaylor</a> , <i>UNICEF, Denmark</i> Predicting free chlorine residual and disinfection by-products in a water distribution network in southern Quebec with a variable reaction rate model, <a href="#">Faezah Absalan</a> , <i>Polytechnique Montreal, Canada</i>		
<b>Break</b>	<b>15:00 - 15:15</b>		
<b>Closing Ceremony</b>	<b>15:15 - 16:45</b>		
Including Poul Harremoës Lecture by Prof. Wolfgang Rauch			
<b>Gala Dinner</b>	<b>Evening</b>		



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<b>Keynote Plenary</b>	<b>09:00 - 09:50</b>	<p>Keynote: Wastewater Gone Viral: Pandemic Signals From the Sewers, <a href="#">Gertjan Medema</a>            Panel: <a href="#">Joan Rose</a>, <a href="#">Jay Bhagwan</a>, <a href="#">Jonathan Hoffmann</a>, <a href="#">Lasse Dam Rasmussen</a>, <a href="#">Ana Maria de Roda Husman</a>, <a href="#">Marta Vargha</a></p>	
<b>Coffee Break</b>	<b>09:50 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>3.4   LEADING EDGE SAND FILTRATION</b> <b>Chairs:</b> <a href="#">Doris van Halem</a> , <i>Netherlands</i> and <a href="#">Luis Guillermo Romero Esquivel</a> , <i>Costa Rica</i> <p>The objective of the workshop is to identify key opportunities for lifting the design of traditional technologies into the 21st century based on best practises as well as the state-of-the-art in science. Therefore, in this interactive workshop we want to bring together cross-continental practical knowledge and academic insights to formulate the future challenges of sand filters.</p> <p><b>Speakers:</b> <a href="#">Doris van Halem</a>, <i>Delft University of Technology (NL)</i> &amp; <a href="#">Luis Guillermo Romero Esquivel</a>, <i>Technológica de Costa Rica (CR)</i>, <a href="#">Tanvir Ahmed</a>, <i>BUET (BD)</i>, <a href="#">Frank Schoonenberg Kegel</a>, <i>Vitens (NL)</i>, <a href="#">Brent Pieterse</a>, <i>Dunea (NL)</i> &amp; <a href="#">Inês Breda</a>, <i>Silhorko-Eurowater A/S (DK)</i></p>	<b>Room B4 a Workshop</b>	<b>5.5   REACHING OUT FOR THE WATER WISE GENERATION</b> <b>Chairs:</b> <a href="#">Stig Dalum</a> , <i>Denmark</i> and <a href="#">Anna Kristiansson</a> , <i>Sweden</i> <p>While we are focusing on how to share knowledge and to communicate with professionals in the water sector, this workshop will focus on how we can engage the youth to share commitment and enthusiasm to contribute to sustainable development in the water sector.</p> <p>This workshop will draw on experienced school services in utilities in Denmark and Sweden to share our experiences in creating learning environments in close cooperation between utilities and public schools.</p> <p><b>Speakers:</b> <a href="#">Anna Kristiansson</a>, <i>VA SYD and Sweden Water Research (SE)</i>, <a href="#">Stig Graeser Dalum</a>, <i>BIOFOS (DK)</i>, <a href="#">Emillia Dall'Osso</a>, <i>Kretsum/VA SYD, (SE)</i>, <a href="#">Mette Lyng Nielsen</a>, <i>School Coordinator BIOFOS (DE)</i> &amp; <a href="#">Carin Hernqvist</a>, <i>Kretsum/VA SYD, (SE)</i></p>	<b>Room B4 b Workshop</b>
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>3.1   SG HEALTH RELATED WATER MICROBIOLOGY AND WHO WORKSHOP: RECREATIONAL WATER QUALITY TRANSLATING SCIENCE TO POLICY</b> <b>Chairs:</b> <a href="#">Regina Sommer</a> , <i>Austria</i> and <a href="#">Kate Medicott</a> , <i>WHO</i> <p>In this workshop, the requirements of best-practice guideline development will be discussed in the context of the recently released WHO recreational water quality guidelines, in light of the scientific results of recent high-quality reviews on the human health impact of faecal pollution in recreational waters, sand, and harmful algal blooms.</p> <p><b>Speakers:</b> <a href="#">Regina Sommer</a>, <i>Medical University of Vienna (AT)</i>, <a href="#">Kate Medicott</a>, <i>World Health Organization (SZ)</i>, <a href="#">David Kay</a>, <i>CREH (UK)</i>, <a href="#">João Brandão</a>, <i>National Institute of Health Dr. Ricardo Jorge (PT)</i>, <a href="#">Joan Rose</a>, <i>Michigan State University (US)</i>, <a href="#">Anne Roiko</a> &amp; <a href="#">Maja Feder</a>, <i>European Commission</i></p>	<b>Room B4 a Workshop</b>	<b>3.5   AN INNOVATIVE PARADIGM IN WATER INFORMATICS FOR SMART CITY APPLICATIONS</b> <b>Chairs:</b> <a href="#">Amlan Chakrabarti</a> , <i>India</i> and <a href="#">Jyoti Gautam</a> , <i>India</i> <p>Encompassing most of the latest technologies under the roof of Water Informatics and discussion of the case studies.</p> <p><b>Speakers:</b> <a href="#">Amlan Chakrabarti</a>, <i>University of Calcutta (IN)</i>, <a href="#">Jyoti Gautam</a>, <i>AKTU (IN)</i>, <a href="#">Dola Gupta</a>, <i>University of Calcutta (IN)</i></p>	<b>Room B4 b Workshop</b>
<b>Break</b>	<b>15:00 - 15:15</b>		
<b>Closing Ceremony</b>	<b>15:15 - 16:45</b>		
Including Poul Harremoës Lecture by Prof. Wolfgang Rauch			
<b>Gala Dinner</b>	<b>Evening</b>		

<b>Keynote Plenary</b>	<b>09:00 - 09:50</b>		
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<b>Coffee Break</b>	<b>09:50 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>1.3   ADVANCING COASTAL RESILIENCY FOR IMPERILED BARRIER ISLAND SYSTEMS</b>	<b>Room B4 c Workshop</b>	<b>1.4   OPTIMISATION OF WATER DISTRIBUTION NETWORKS</b>	<b>Room B4 d Technical</b>
Chairs: <a href="#">Linda Åmand</a> , <a href="#">Sweden</a> and <a href="#">Hamred Chungani</a> , <a href="#">Kenya</a> The intent of the Resilient Long Beach Island Project, one of four pilot regions within the Mid-Atlantic U.S., was to solidify a shared vision for a resilient barrier island. The project addresses the complexities of striking the delicate balance between protecting coastal communities and enhancing ecosystem services. Technological advancements were made during the course of this dynamic project to best translate complex analyses into user-friendly information to allow stakeholders to make informed decisions. Two specific methods we wish to highlight include the development of an integrated flood model ("Cloudburst"), storm surge and sea level rise, and the preparation of intricate scenario planning typologies illustrating nature-based solutions and community transformation. The project generated several innovative ideas regarding how best to serve a highly vulnerable community as they face present and future climate change related impacts. Speakers: <a href="#">Christian Nyerup Nielsen</a> , <a href="#">Ramboll (DK)</a> & <a href="#">Sophia Ertel</a> , <a href="#">Ramboll Americas (US)</a>		Chairs: <a href="#">Michael Storey</a> , <a href="#">Australia</a> and <a href="#">Athanasios Serafeim</a> , <a href="#">Greece</a> Migration from materials in contact with drinking water — application of non-target screening analysis, <a href="#">Lone Tolstrup Kariby</a> , <a href="#">Hofoer, Denmark</a> Performance evaluation of flow-starved water transmission network, <a href="#">Abhishek Sinha</a> , <a href="#">IIT Bombay, India</a> Real-time software for distribution system operations: an operator-focused design approach, <a href="#">Ian Rodgers</a> , <a href="#">Xylem Inc, United Arab Emirates</a> Decision for hazard ranking of water distribution network using TOPSIS Method, <a href="#">Haekeum Park</a> , <a href="#">University of Seoul, Republic of Korea</a> ---- POSTERS ---- Optimization of electrical energy consumption and reduction of carbon footprint in water supply — AdRA's Case Study, <a href="#">Mafalda Tavares</a> , <a href="#">AdRA-Águas da Região de Aveiro, SA, Portugal</a> Vulnerability of water distribution networks, <a href="#">Richárd Wéber</a> , <a href="#">Budapest University of Technology and Economics, Hungary</a>	
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>1.2   UTILITY EFFICIENCY AND EXCELLENCY</b>	<b>Room B4 c Technical</b>	<b>1.1   ARE YOU ADEQUATELY ASSESSING YOUR WATER LOSSES? LEARN TO USE THE WL PERFORMANCE INDICATORS</b>	<b>Room B4 d Workshop</b>
Chairs: <a href="#">Linda Åmand</a> , <a href="#">Sweden</a> and <a href="#">Hamred Chungani</a> , <a href="#">Kenya</a> Assessing the financial sustainability of water service providers in Kenya, <a href="#">Kelvin Mwangi</a> , <a href="#">Nairobi City Water and Sewerage Company Ltd, Kenya</a> Benchmarking the sewage treatment facilities of Indian cities using a novel index-based approach, <a href="#">Dina Zaman</a> , <a href="#">Indian Institute of Technology Kharagur, India</a> Towards collaborating and integrated water companies, <a href="#">Carl Heyrman</a> , <a href="#">AquaFlanders, Belgium</a> Benchmarking sustainability of European water services, <a href="#">Peter Dane</a> , <a href="#">EBC Foundation, Netherlands</a> ---- POSTERS ---- Alliance for water stewardship: a case study of sustainable water stewards in the northern Italy, <a href="#">Gabriele Andreani</a> , <a href="#">Philip Morris Manufacturing and Technology, Italy</a> Achieving a sustainable step-change in water management in a UK campus environment, <a href="#">James Daly</a> , <a href="#">University of Surrey, United Kingdom</a>		Chairs: <a href="#">Enrique Cabrera</a> , <a href="#">Spain</a> The purpose of the workshop is to promote a better understanding of the proper use of one or more specific PIs when addressing water losses, with regard to the context in which they are being applied. A secondary purpose is for participants to apply that understanding to the updated EU Drinking Water Directive (DWD) for their context. Speakers: <a href="#">Enrique Cabrera</a> , <a href="#">IWA BPA SG Chair</a> , <a href="#">IWA Senior VicePresident</a> , <a href="#">IWA Publishing Chair (ES)</a> , <a href="#">Alan Wyatt</a> , <a href="#">BPA SG MC member (US)</a> & <a href="#">Aleksandar Krstic</a> , <a href="#">BPA SG MC member (RS)</a>	
<b>Break</b>	<b>15:00 - 15:15</b>		
<b>Closing Ceremony</b>	<b>15:15 - 16:45</b>		
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# Thursday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:50</b>		
Keynote: Wastewater Gone Viral: Pandemic Signals From the Sewers, <a href="#">Gertjan Medema</a> Panel: <a href="#">Joan Rose</a> , <a href="#">Jay Bhagwan</a> , <a href="#">Jonathan Hoffmann</a> , <a href="#">Lasse Dam Rasmussen</a> , <a href="#">Ana Maria de Roda Husman</a> , <a href="#">Marta Vargha</a>			
<b>Coffee Break</b>	<b>09:50 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>1.3   COLLABORATION OF WATER UTILITIES AND AUTHORITIES IN CRISIS</b> <b>Room B3 a Workshop</b> <b>Chairs:</b> <a href="#">Riku Vahala</a> , <a href="#">Finland</a> <p>Even in the highly developed Nordic countries with high-level water services, severe failures have challenged the safety of the drinking water services and crisis management processes. Climate change accelerates existing challenges and increases the frequency of disturbances in water production and distribution as well as in wastewater and storm water management. Typical consequences of climate change include flooding, storms, heavy rains, and droughts may lead to uncontrolled discharges of sewage and water contamination, but they also include power and data communication failures.</p> <p>In this workshop, the causes of crisis and outbreak situations as well as the consequences for the reliability of the water services will be analysed and summarised by using four different case examples from the Nordic countries.</p> <p>Short descriptions of new smart tools for risk and crisis management, as well as crisis management processes between authorities, water utilities, and customers, will be presented in a panel discussion by the four countries.</p> <p>Speakers: <a href="#">Riku Vahala</a>, <a href="#">Aalto University (FI)</a>, <a href="#">Ilkka Miettinen</a>, <a href="#">Finnish Institute for Health and Welfare (FI)</a>, <a href="#">Susanne Hyllestad</a>, <a href="#">National Health Institute of Norway (NO)</a>, <a href="#">Birger Wallsten</a>, <a href="#">The Swedish Water and Wastewater Association (SE)</a>, <a href="#">Dorte Skraem</a>, <a href="#">Danish Water and Wastewater Association (DK)</a>, <a href="#">Heli Härkki</a>, <a href="#">HSY (FI)</a>, <a href="#">Riina Liikanen</a>, <a href="#">Vesilaitosyhdistys (FI)</a> &amp; <a href="#">Kjetil Furuberg</a>, <a href="#">Norsk vann BA (NO)</a></p>	<b>4.4.12   TRANSITIONING TO AND IMPLEMENTATION OF SUSTAINABLE AND WATER WISE CITIES</b> <b>Room B3 b Technical</b> <b>Chairs:</b> <a href="#">Ioannis Alexiou</a> , <a href="#">United Kingdom</a> and <a href="#">Martijn Kuller</a> , <a href="#">Canada</a> <p>Long-term performance and geochemical transformations in biochar-amended sand stormwater filtration systems, <a href="#">Maria Dubovik</a>, <a href="#">VTT Technical Research Centre of Finland, Finland</a></p> <p>Grenoble-Alpes Meetrople: a roadmap to a water-wise city, <a href="#">Corinne Trommsdorff</a>, <a href="#">Water Cities, France</a></p> <p>Carbon footprint of drinking water when waterworks transition from traditional to modern waterworks, <a href="#">Berit Godskesen</a>, <a href="#">Fors AJS, Denmark</a></p> <p>Evaluating the water treatment functionality of a retrofitted stormwater detention pond in the Cape Flats, Cape Town, South Africa, <a href="#">Rachelle Schneuwley</a>, <a href="#">University of Cape Town, South Africa</a></p> <p>---- POSTERS ----</p> <p>How GIS supports digital transformation &amp; sustainable management, <a href="#">Christa Campbell</a>, <a href="#">Esri - CA Redlands, United States</a></p> <p>SaNITI — New innovative sanitation game changing strategy to meet water security and SDG goals, <a href="#">Jay Bhagwan</a>, <a href="#">Water Research Commission, South Africa</a></p>		
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>1.14   INTEGRATION OF DECENTRALISED SOLUTIONS IN A CENTRALISED SYSTEM</b> <b>Room B3 a Technical</b> <b>Chairs:</b> <a href="#">Eiman Karar</a> , <a href="#">South Africa</a> and <a href="#">Avinash Vijay</a> , <a href="#">France</a> <p>Can we sum the performance of green infrastructures? The potential of system-based planning, <a href="#">Vincent Pons</a>, <a href="#">Norwegian University of Science and Technology, Norway</a></p> <p>"Water 4 Later" — Collective rainwater storage and reuse, coupled to ASR, within a business park in Keiberg-Vossem, <a href="#">Ian Montauban van Swijndregt</a>, <a href="#">De Watergroep, Belgium</a></p> <p>Cluster-based faecal sludge and septage management in the hilly region: a case study of Uttarakhand, <a href="#">Mahreen Matta</a>, <a href="#">National Institute of Urban Affairs, India</a></p> <p>Hybrid water model: a strategic decision making tool for sustainable water management, <a href="#">Louise Vansacker</a>, <a href="#">De Watergroep, Belgium</a></p> <p>---- POSTERS ----</p> <p>Sustainable water management for Indian cities — a conceptual framework, <a href="#">Suresh Sharma</a>, <a href="#">S P School of Global Management, India</a></p> <p>Mitigation of hospital centralisation caused increases of antibiotic-resistant bacteria in sewers by source treatment utilising peracetic acid, <a href="#">Henrik Andersen</a>, <a href="#">DTU, Denmark</a></p>	<b>4.4.6   HOLISTIC URBAN WATER MANAGEMENT PLANNING</b> <b>Room B3 b Technical</b> <b>Chairs:</b> <a href="#">Nilo Nascimento</a> , <a href="#">Brazil</a> and <a href="#">Dhruv Pasricha</a> , <a href="#">India</a> <p>Developing sustainable and resilient urban wastewater solutions using integrated sewer and treatment system process models, <a href="#">Julian Sandino</a>, <a href="#">Jacobs, United States</a></p> <p>Development of a multi-criteria spatial analysis tool for decision support on the location of blue-green stormwater management infrastructure in canadian context, <a href="#">Sandrine Lacroix</a>, <a href="#">Polytechnique Montreal, Canada</a></p> <p>Integration of snow management decision criteria in a strategic planning tool for green infrastructures, <a href="#">Garance Gougeon</a>, <a href="#">Polytechnique Montreal, Canada</a></p> <p>Positive futures as decision-support tools for urban water planning, <a href="#">Varsha Sivagurunathan</a>, <a href="#">The University of New South Wales, Australia</a></p> <p>---- POSTERS ----</p> <p>Holistic decision-making for planning water supply, urban drainage, wastewater treatment and water reuse through linear optimization by using the urban water mass balance, <a href="#">Timo Christopher Dilly</a>, <a href="#">Technisch Universität Kaiserslautern, Germany</a></p>		
<b>Break</b>	<b>15:00 - 15:15</b>		
<b>Closing Ceremony</b>	<b>15:15 - 16:45</b>		
Including Poul Harremoës Lecture by Prof. Wolfgang Rauch			
<b>Gala Dinner</b>	<b>Evening</b>		



<b>Keynote Plenary</b>	<b>09:00 - 09:50</b>		
Keynote: Wastewater Gone Viral: Pandemic Signals From the Sewers, <a href="#">Gertjan Medema</a> Panel: <a href="#">Joan Rose</a> , <a href="#">Jay Bhagwan</a> , <a href="#">Jonathan Hoffmann</a> , <a href="#">Lasse Dam Rasmussen</a> , <a href="#">Ana Maria de Roda Husman</a> , <a href="#">Marta Vargha</a>			
<b>Coffee Break</b>	<b>09:50 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>2.4   MICROPLASTICS IN WASTEWATER AND BIOSOLIDS</b>	<b>Room B3 c Workshop</b>	<b>6.12   UNFC SYSTEM FOR GROUNDWATER-RESOURCE PROJECTS</b>	<b>Room B3 d Workshop</b>
Chairs: <a href="#">Stefan Kools</a> , <i>Netherlands</i> and <a href="#">Banu Ormeci</a> , <i>Canada</i>  In this session we will gather a global overview of the state-of-technology in sampling and analysis for the aquatic environment, with a perspective from both drinking water and waste water treatment.  Speakers: <a href="#">Stefan Kools</a> , <i>KWR Water Research Institute (NL)</i> , <a href="#">Jan Hofman</a> , <i>Bath University (UK)</i> , <a href="#">Banu Ormeci</a> , <i>Carleton (CA)</i> & <a href="#">Danence Lee</a> , <i>PUB (SG)</i>		Chairs: <a href="#">Kevin Parks</a> , <i>Canada</i> and <a href="#">Klaus Hinsby</a> , <i>Denmark</i>  The purpose of this session is to evaluate the application of the Draft UNFC Specifications for Groundwater through a representative use case based on the GeoERA groundwater projects.  Speakers: <a href="#">Kevin Parks</a> , <i>Deep Time Ltd. (CA)</i> , <a href="#">Klaus Hinsby</a> , <i>GEUS (DK)</i> , <a href="#">Peter van der Keur</a> , <i>GEUS (DK)</i> & <a href="#">Marco Petitta</a> , <i>Sapienza Univ. of Rome (IT)</i>	
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>4.7   SANITATION IN URBAN INFORMAL SETTLEMENTS</b>	<b>Room B3 c Workshop</b>	<b>4.8   ACTIONABLE PATHWAY TO IMPLEMENTATION OF NATURE-BASED SOLUTIONS</b>	<b>Room B3 d Workshop</b>
Chairs: <a href="#">Bo N Jacobsen</a> , <i>Denmark</i>  The workshop will put into focus how to share and transfer knowledge and good experiences from new technical-scientific findings to large-scale practical implementations of sustainable sanitation solutions in urban informal settlements. Linkages to the Congress themes, e.g., Wash and community scale water management, and to the IWA Strategic Plan 2019–24, e.g., providing a targeted platform that helps utilities (and communities) share experiences, recognise and learn from emerging disruption, and adapt and embrace change.  The outcome of the workshop will be documented as a legacy. It is planned to involve an IWA Young Water Professional in the rapporteur process and in writing a blog to share the outcomes.  Speakers: <a href="#">Bo N Jacobsen</a> , <i>Engineers Without Borders &amp; IAWPRC-IAWQ-IWA Member since 1990 (DK)</i> , <a href="#">Hezekiah Pireh</a> , <i>Yirah O. Conteh, Shack/Slum Dwellers International (SDI) (SL)</i> , <a href="#">Jay Bhagwan</a> , <i>Water Research Commission (ZA)</i> , <a href="#">Stuart White</a> , <i>University of Technology Sydney (AU)</i> , <a href="#">Kai Udert</a> , <a href="#">Markus Starkl</a> , <i>BOKU Wien (AT)</i> & <a href="#">James Ebdon</a> , <i>University of Brighton (UK)</i>		Chairs: <a href="#">Maria Dubovik</a> , <i>Finland</i> and <a href="#">Laura Wendling</a> , <i>Finland</i>  The session brings together Europe's leading experts in nature-based solutions design, implementation and impact evaluation. The session presents the components of the NBS implementation cycle and offers participants an opportunity to engage in NBS discussions. Components of the NBS cycle discussed will include the identification of important stakeholders, co-creation, policy contexts, and means to strengthen and upscale nature-based interventions via monitoring and impact assessment. After the session, participants will be able to identify key stakeholders and steps necessary for targeted NBS implementation, performance and impact evaluation, and replication. Local experts can translate the session's learning outcomes to local agendas and decision-making, and replicate the NBS implementation process for the local environmental, social and economic challenges.  Speakers: <a href="#">Maria Dubovik</a> , <i>VTT Technical Research Centre of Finland (FI)</i> & <a href="#">Laura Wendling</a> , <i>VTT Technical Research Centre of Finland (FI)</i> , <a href="#">Margot Olbertz</a> & <a href="#">Pedro Carvalho</a> , <i>Aarhus University (DK)</i>	
<b>Break</b>	<b>15:00 - 15:15</b>		
<b>Closing Ceremony</b>	<b>15:15 - 16:45</b>		
Including Poul Harremoës Lecture by Prof. Wolfgang Rauch			
<b>Gala Dinner</b>	<b>17:30 - 18:20</b>		

# Thursday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:50</b>	<p>Keynote: Wastewater Gone Viral: Pandemic Signals From the Sewers, <a href="#">Gertjan Medema</a>            Panel: <a href="#">Joan Rose</a>, <a href="#">Jay Bhagwan</a>, <a href="#">Jonathan Hoffmann</a>, <a href="#">Lasse Dam Rasmussen</a>, <a href="#">Ana Maria de Roda Husman</a>, <a href="#">Marta Vargha</a></p>	
<b>Coffee Break</b>	<b>09:50 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>6.13   HOW TO OPERATIONALISE INTEGRATED URBAN WATER MANAGEMENT — A FIVE-STEP GUIDE</b>	<b>Room B3 e Workshop</b>	<b>6.19   GOVERNANCE AND TRANSITION TO A CIRCULAR ECONOMY IN PUBLIC WATER SERVICES</b>	<b>Room B3 f Workshop</b>
<p><b>Chairs:</b> <a href="#">Katharine Cross</a>, <i>Australia</i> and <a href="#">Michael Wilson</a>, <i>Australia</i></p> <p>The workshop will be presented through the lens of a "water sensitive city" to draw on a decade's worth of research in this area, as well as a five-step framework to address the urgent urban water challenges.</p> <p><b>Speakers:</b> <a href="#">Katharine Cross</a>, <i>Australian Water Partnership (AU)</i> &amp; <a href="#">Michael Wilson</a>, <i>eWater (AU)</i> &amp; <a href="#">Tony Wong</a>, <i>Monash University (AU)</i></p>		<p><b>Chairs:</b> <a href="#">Jordi Morató</a>, <i>Spain</i> and <a href="#">Nicola Tollin</a>, <i>Denmark</i></p> <p>The workshop will analyse and compare various cases of small and medium-sized water utilities that have worked on their transition to a circular economy within the context of the SDGs.</p> <p><b>Speakers:</b> <a href="#">Jordi Morató</a>, <i>UNESCO Chair on Sustainability - UPC (ES)</i> &amp; <a href="#">Nicola Tollin</a>, <i>University of Southern Denmark (DK)</i>, <a href="#">Jose Luis Martin Bordes</a>, <i>Partnership WOPs Expert</i>, <a href="#">Carlos A. Arias</a>, <i>Univ. Aarhus (DK)</i>, <a href="#">Lykke Leonardsen</a>, <i>Copenhagen Region Municipality (DK)</i> &amp; <a href="#">Rogier van den Berg</a>,</p>	
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>6.16   LIFECYCLE SYSTEM THINKING AND SYSTEM BOUNDARIES FOR SUSTAINABILITY ASSESSMENT OF WATER MANAGEMENT</b>	<b>Room B3 e Workshop</b>	<b>1.4   THE DIGITAL WORKER — CHALLENGES AND LESSONS LEARNED BY INTERNATIONAL UTILITIES</b>	<b>Room B3 f Workshop</b>
<p><b>Chairs:</b> <a href="#">Martin Rygaard</a>, <i>Denmark</i> and <a href="#">Maria Farago</a>, <i>Denmark</i></p> <p>Sustainability Development Goals and Planetary Boundaries are taking water management by storm. In that storm, well-conducted lifecycle assessments (LCA) and cost-benefit analyses can provide quantitative decision support for strategic planners and management as for such support tools, the first step is always a thorough understanding of the water system and its interaction with associated energy, material, and transport systems. In this training session, you will be introduced to the concept of lifecycle systems thinking. We will provide an example based on state-of-the-art water resource recovery. Following the introduction, an interactive session with peers will challenge you to map your own system and identify all links to upstream and downstream processes. The session is a modified version of training sessions successfully held with participants from Argentina, China, Denmark, Egypt, Ghana, Kenya, and South Africa.</p> <p><b>Speakers:</b> <a href="#">Martin Rygaard</a>, <i>Technical University of Denmark (DK)</i> &amp; <a href="#">Maria Farago</a>, <i>Technical University of Denmark (DK)</i></p>		<p><b>Chairs:</b> <a href="#">Cheryl Davis</a>, <i>United States</i> and <a href="#">Lisa Bross</a>, <i>Germany</i></p> <p>The purpose of this workshop is to identify and discuss workforce challenges and lessons learned in relation to issues (e.g., selection of tools, organisational culture, staff training, human resource issues, and IT support) that are key to the effective use of digital tools. A combination of presentations and facilitated discussion will be used to document challenges and lessons learned. Output from this session will be used as the basis for the creation of future reports, presentations, and guidelines for effective use of digital tools by utilities.</p> <p><b>Speakers:</b> <a href="#">Cheryl Davis</a>, <i>Chair of IWA Specialist Group on Sustainability in the Water Sector CKD Consulting (US)</i> &amp; <a href="#">Lisa Bross</a>, <i>WVR (DE)</i>, <a href="#">Nozomi Ishida</a>, <i>Tokyo Metropolitan Government (JP)</i>, <a href="#">Victor Faria</a>, <i>CEDEA (BR)</i> &amp; <a href="#">Juan Iervasi</a>, <i>Agua y Saneamientos Argentinos (AR)</i></p>	
<b>Break</b>	<b>15:00 - 15:15</b>		
<b>Closing Ceremony</b>	<b>15:15 - 16:45</b>		
Including Poul Harremoës Lecture by Prof. Wolfgang Rauch			
<b>Gala Dinner</b>	<b>Evening</b>		

<b>Keynote Plenary</b>	<b>09:00 - 09:50</b>	
<b>Coffee Break</b>	<b>09:50 - 10:30</b>	
<b>Session 1</b>	<b>10:30 - 12:00</b>	
<b>1.5   WATER IN CIRCULAR ECONOMY AND RESILIENCE: AN OPPORTUNITY TO TRANSFORM URBAN WATER SERVICES</b>		<b>Room B3 g Workshop</b>
<p><b>Chairs:</b> <a href="#">Anna Delgado</a>, <i>United States</i></p> <p>The purpose of the workshop is to present the World Bank's Water in Circular Economy and Resilience (WICER) Framework, which aims to establish a common understanding of circular economy and resilience in the urban water sector and to showcase global experiences of different cities in different contexts applying circular economy and resilience principles. The presenters will discuss how to operationalize and mainstream these concepts in urban water, reflecting on their experiences and identifying challenges and opportunities. The purpose of the workshop is also to engage the audience and promote a collaborative discussion to identify challenges and opportunities in the sector and to foster the application of circular solutions in the water sector. The power points and a summary of the workshop will be available on the World Bank's WICER website: <a href="http://www.worldbank.org/wicer">www.worldbank.org/wicer</a>.</p> <p><b>Speakers:</b> <a href="#">Anna Delgado</a>, <i>World Bank (US)</i>, <a href="#">Daniel Nolasco</a>, <i>NOLASCO &amp; Asoc. S.A. (AG)</i>, <a href="#">Jose Luis Valverde</a>, <i>Sociedad Minera Cerro Verde S.A.A. (PR)</i>, <a href="#">Frodo van Oostveen</a>, <i>World Waternet (NL)</i> &amp; <a href="#">Marta Colet Gonzalo</a>, <i>Aguas Andinas (CL)</i></p>		
<b>Lunch</b>	<b>12:00 - 13:30</b>	
<b>Session 2</b>	<b>13:30 - 15:00</b>	

<b>Break</b>	<b>15:00 - 15:15</b>
<b>Closing Ceremony</b>	<b>15:15 - 16:45</b>
<b>Gala Dinner</b>	<b>Evening</b>

# Thursday | Business Forums

## Keynote Plenary 09:00 - 09:50

BUSINESS FORUM ROOM 1 (HALL E)	BUSINESS FORUM ROOM 2 (HALL C)
<p><b>10:30 — 11:15   GRUNDFOS</b></p> <p><b>Creating a digital platform for smart and liveable cities</b></p> <p>Digitalisation is an enabler for smart and liveable cities. Utilising the increasing amount of available data, connecting the dots and leveraging the ability to predict and prioritise, the digital platform created by Grundfos simplifies and optimises daily operations and long-term planning in a proactive, profitable and smart way.</p>	<p><b>10:30 — 11:15   ISKREA</b></p> <p><b>Veitur project. A complete AMI solution for the multiutility connecting electricity, heat, and water metering points within single-point management access</b></p> <p>The session will present a use case in Veitur, Iceland's largest utility company, implementing an AMI solution on a country scale, connecting electricity, heat, and water metering points with single-point management access within Iskraemeco's software suite – SYMBIOT.</p> <p>- <i>Daniele Del Negro, Sales and Business Development Manager</i></p>
<p><b>11:15 — 12:00   KAMSTRUP</b></p> <p><b>Reducing Non-Revenue Water through optimized leak-detection</b></p> <p>Sharing the innovation story on how acoustic leak detecting (ALD) technology was developed, and the value it generates</p> <p>Sharing our "It's time to know" perspectives on how data becomes increasingly important in daily decision making</p> <p>Sharing learnings from practical smart metering cases with focus on measurable results and key learnings</p> <p>- <i>Hans Christian Jørgensen, Head of Solution &amp; Application Management</i></p>	<p><b>11:15 — 12:00   DHI</b></p> <p><b>Water modelling tools – transforming science into practice</b></p> <p>Considering city population projections, it's crucial to efficiently manage water. For cities to be competitive and resilient, sound infrastructure investments and planning are essential. DHI's MIKE tools use industry expertise to create efficient, accurate and resilient urban water solutions. At this Business Forum, DHI's experts will present and discuss case stories based on water modelling that helps cities to implement climate adaptation, achieve energy savings and reduce carbon footprint using the latest MIKE by DHI software technology</p> <p>- <i>Morten Just Kjølby and Aurelien Gasc</i></p>
<p><b>12:15 — 13:00   DENMARK PAVILION</b></p> <p>Climate adaptation - turning necessity into benefits</p> <p>Denmark is surrounded by coast and over time developed world class efficient climate adaption solutions. This seminar addresses top modern ways of securing vital urban infrastructure as well as creating value added projects in close cooperation with various stakeholders to improve city livability.</p> <p>- <i>Bjarne Rasmussen, Engineer, Middelfart Municipality</i>          - <i>Morten Kristensen, Sales Director, Apx10</i>          - <i>Jacob P. Larsen, Director of Urban Water &amp; Infrastructure, WSP Denmark</i></p>	<p><b>13:30 — 14:15   GRUNDFOS</b></p> <p>To be announced later</p>
<p><b>Closing Ceremony 15:15 - 16:45</b></p>	