

INTELLIGENT CONNECTIVITY

Grundfos Forum 2018

Programme-At-A-Glance

DATE	15 AUGUST 2018 (WED)	16 AUGUST 2018 (THURS)
0830	OPENING SPEECH	FUTURE OUTLOOK AND TRENDS TOWARD SMART BUILDINGS
0900		
0930	EMBRACING DIGITAL – MOVING BEYOND THE PUMP	ACTIVITIES @ EXHIBITION
1000	ACTIVITIES @ EXHIBITION	
1030	FUTURE MANUFACTURING - A NEW WORLD OF POSSIBILITIES	ENABLING WATER RESOURCES OF THE FUTURE
1100	STRATEGIES FOR GROWTH – INNOVATION & INVENTING THE FUTURE	BREAKOUT SESSIONS 1-4
1130	OPTIMISING ENERGY – OUR STEPS TO A SUSTAINABLE FUTURE	
1200	ACTIVITIES @ EXHIBITION	ACTIVITIES @ EXHIBITION
1230		
1300	INDUSTRY 4.0 – CONNECTING INTELLIGENTLY	BREAKOUT SESSIONS 1-4
1330	ACTIVITIES @ EXHIBITION	
1400		ACTIVITIES @ EXHIBITION
1430		
1500	BREAKOUT SESSIONS 1-3	BREAKOUT SESSIONS 1-3
1530		
1600		
1630	END OF DAY 1 PROGRAMME	END OF DAY 2 PROGRAMME
1700		
1730	END OF DAY 1 PROGRAMME	END OF DAY 2 PROGRAMME

● Common Sessions ● Breakout Sessions ● Exhibition & Networking

Day 1: Wednesday, 15th August 2018

08:45 – 09:30 **OPENING SPEECH**

Poul Due Jensen, Group Executive Vice President, Sales, Marketing And Service

Auditorium / English & Chinese 中文

09:30 – 10:00

EMBRACING DIGITAL – MOVING BEYOND THE PUMP

Kim Jensen, Group Senior Vice President, Regional Managing Director Asia Pacific

With digitalisation and technology redefining our world, Grundfos has been a leader in embracing the digital movement since the 1990s. Hear how we make digital simple, leverage on data to do things once impossible, redefine business models and value chains, interact and connect with customers seamlessly, enable us to work agilely in connected ways, and create value beyond the pump.

Auditorium / English & Chinese 中文

10:00 – 10:30

ACTIVITIES @ EXHIBITION

10:30 – 11:00

FUTURE MANUFACTURING – A NEW WORLD OF POSSIBILITIES

Peter Krarup, Vice President, Operations (Asia Pacific & China)

Manufacturing is undergoing the industry's greatest change in more than 100 years, due to the advancements in technology. Being the market leader in our industry, hear what Grundfos is doing and how digitalization will enable new opportunities and bring forward change. We will share how we explore new possibilities in terms of design and performance through technology including virtual reality, 3D printing and more.

Auditorium / English & Chinese 中文

11:00 – 11:30

STRATEGIES FOR GROWTH – INNOVATION & INVENTING THE FUTURE

Flemming Hedegaard, Technology and Innovation Director

The term "innovation" can be heard everywhere and for us, it means new ideas and solutions, enabling us to continue to be the leader in advanced pump solutions and also the trendsetter in water technology. See a snapshot of the technologies behind our latest solutions, how technology supports our digital journey and have a glimpse of what you can expect from us in the future.

Auditorium / English & Chinese 中文

11:30 – 12:00

OPTIMISING ENERGY – OUR STEPS TO A SUSTAINABLE FUTURE

Huw Lloyd, Project Manager, Energy Optimisation

Pump systems use massive amounts of energy and money, hence they need to be well integrated with your operations, to provide reliable and maximum performance. Get a true picture of how your pumps can work for you, how your system has the ability to transform, give you control, and do a lot more but with less energy and water.

Auditorium / English & Chinese 中文

12:00 – 13:00

ACTIVITIES @ EXHIBITION

Day 1: Wednesday, 15th August 2018

13:00 – 13:45 **INDUSTRY 4.0 – CONNECTING INTELLIGENTLY**

*Eric Lai, Global Business Director for Machining Industry
Niels Fielsoe Petersen, Director Business Development, Industry
Morten Gylling, Director, Global Multi Stage Program*

The megatrend in the Industry Market in recent years is the movement into the 4th Industrial Revolution (Industry 4.0). This includes cyber-physical systems, the Internet of things (IoT), cloud computing and cognitive computing. See how Grundfos is ready and supporting this trend in industries with intelligent pumps, and also witness the launch of the new generation of CR pump, that truly embraces intelligent connectivity.

Auditorium / English & Chinese 中文

13:45 – 16:00 **ACTIVITIES @ EXHIBITION**

16:00 – 17:30 **BREAKOUT SESSIONS**

EXPLORE HOW GRUNDFOS ISOLUTIONS REDUCE INDUSTRY WATER AND CARBON FOOTPRINTS

UN sustainable development goals 6 and 13 clearly reflect that climate change and water scarcity are two key issues threatening society globally. With a significant percentage of energy and water consumed in industries worldwide, find out how Grundfos intelligent solutions can help industries reduce their carbon and water footprints, to align with global trends and ensure sustainable development.

Breakout Room 1 / English & Chinese 中文

MANAGING WASTEWATER FOR REMOTE AREAS THROUGH TECHNOLOGY

Wastewater is a valuable resource, however it contains many harmful substances and cannot be released back into the environment until it is treated. Join us in this session to see how digitalisation overcomes limitations in providing solutions in remote areas, and how this integrates with modular pumping stations to provide comprehensive solutions.

Breakout Room 2 / English

CONNECTED HOMES

With water being a finite resource that is becoming scarce, saving water has been a major sustainability movement. Join us in this session to know how we have leveraged on technology and the Internet of Things (IOT) in your homes with Smart pumps and connected products, changing our water supply and making it even more sustainable.

Breakout Room 3 / English

END OF DAY 1

Day 2: Thursday, 16th August 2018

08:30 – 09:30 **FUTURE OUTLOOK & TRENDS TOWARD SMART BUILDINGS**

Bent Jensen, Group Senior Vice President, Building Services

Anders Christiansen, Regional Business Director, Building Services (Asia Pacific)

From hotels and hospitals to office towers, airports and even to your home, buildings have vastly different requirements. Get an overview of how we are helping buildings to become sustainable, as well as the impact of digitalisation and the future trends in this industry.

Auditorium / English & Chinese 中文

09:30 – 10:20 **ACTIVITIES @ EXHIBITION**

10:20 – 11:00 **ENABLING WATER RESOURCES OF THE FUTURE**

Marianne Kjeldgaard Knudsen, Senior Director, Digital Offerings (Water Utility)

Chee Meng Tan, Regional Segment Director, Water Utility (Asia Pacific)

By 2030 over a third of the world population will be living in river basins that will have to cope with significant water stress, and public and private sectors are increasingly becoming aware of the challenge and the need to carefully manage water resources. Hear case stories from across the world where we explore solutions to reduce water loss and energy usage, and how digitalisation helps us in our journey to support UN Sustainable Development Goals' 6 & 13.

Auditorium / English & Chinese 中文

11:00 – 12:00 **BREAKOUT SESSIONS**

REACHING A NEW LEVEL OF PERFORMANCE AND CONTROL WITH DISTRIBUTED COOLING SOLUTIONS

Driven by global warming, rising standards of living and urbanisation, there is a rise in cooling needs globally. To meet this demand while ensuring environment sustainability, distributed pumping system is a disrupter in cooling solutions. Join us in this session to hear from experts on how to design the perfect system for your needs, and how this disrupter may help change the energy saving game in the region.

Breakout Room 1 / English & Chinese 中文

CONNECTED SYSTEMS – OPTIMISING WATER SOLUTIONS FOR DRINKING & IRRIGATION NEEDS

Today, submersible pumping is not only about drawing water for irrigation and drinking needs. It is also about interacting with the system to ensure that you always have the most optimized and efficient solution. Join us in this session, to understand how systems can be connected and monitored remotely, and how you can leverage on data to make your system intelligent and intuitive.

Breakout Room 2 / English

INDUSTRY 4.0 – ALL ABOUT TEMPERATURE CONTROL

Riding on the regulations and standards for Industry 4.0, join us in this collaborative session with our partner Miura as we discuss about innovative and intelligent solutions of controlling temperature via boilers with a state of the art modular systems, boiler and steam connectivity. We will also share Miura's multiple installation system and online maintenance, as well as how we can help with optimising your system.

Breakout Room 3 / English

EXPLORE INTELLIGENT BOOSTING SYSTEMS FOR COMMERCIAL BUILDINGS

Commercial and institutional facilities uses a significant amount of water and energy in their daily operations. Owners and managers of these types of facilities are increasingly aware of the need to use water more efficiently to reduce their risk to water shortages. Join us in this session, to see intelligent solutions in our boosters that are designed for optimum transfer and pressure boosting of clean water.

Breakout Room 4 / English

Day 2: Thursday, 16th August 2018

12:00 – 13:30 **ACTIVITIES @ EXHIBITION**

13:30 – 14:30 **BREAKOUT SESSIONS**

SMART SYSTEMS – DEMAND DRIVEN WATER SUPPLY

While demand for clean and safe drinking water increases all over the world, water leakage presents a huge challenge. Join us in this session to see how a process called Demand Driven Distribution can address this issue, and how remote sensors enable intelligent connectivity in this system to deliver significant water leakage savings and reduce energy consumption.

Breakout Room 1 / English & Chinese 中文

OPTIMISING ENERGY – STEPS TOWARDS SMART ENERGY USAGE

Pumps account for 10% of the world's total electrical energy consumption, yet over 90% of them are inefficient. Join us in this session to see how you can contribute to global sustainability by ensuring that your pumps are working at their best. Find out how can you get a full assessment on your pump and get valuable advice on how to get the best out from your pumps and enjoy cost and energy savings.

Breakout Room 2 / English

EXTREME PUMPS FOR EXTREME CONDITIONS

Certain industries requires unique or extreme solutions that can perform and provide protection to employees and the surrounding work environment. With the ability to customize, join us in this session to find out how technology enables us to meet difficult and specific product requirements, and maintain and monitor your system.

Breakout Room 3 / English

CONNECTED BUILDINGS – NEW WAYS OF DESIGN (BIM)

Coming Soon!

Breakout Room 4 / English

14:30 – 16:00 **ACTIVITIES @ EXHIBITION**

Day 2: Thursday, 16th August 2018

16:00 – 17:30 **BREAKOUT SESSIONS**

MANAGING WASTEWATER FOR REMOTE AREAS THROUGH TECHNOLOGY *(repeat)*

Wastewater is a valuable resource, however it contains many harmful substances and cannot be released back into the environment until it is treated. Join us in this session to see how digitalisation overcomes limitations in providing solutions in remote areas, and how this integrates with modular pumping stations to provide comprehensive solutions.

Breakout Room 1 / English & Chinese 中文

EXPLORE THE DIGITAL TOOLBOX

In 2018, the number of internet users has crossed the 4 billion mark. With over half of the world's population now online, join us as we share multiple digital tools that was developed including e-commerce, sizing tools for engineers, an online academy and more to support capability building in this industry, as well as giving you a seamless experience to meet your needs.

Breakout Room 2 / English

CONNECTED HOMES *(repeat)*

With water being a finite resource that is becoming scarce, saving water has been a major sustainability movement. Join us in this session to know how we have leveraged on technology and the Internet of Things (IOT) in your homes with Smart pumps and connected products, changing our water supply and making it even more sustainable.

Breakout Room 3 / English

END OF DAY 2