



BWS 2016 EXPO Innovation Day

Budapest, 29 November 2016

PROGRAMME

Venue: Millenáris Park, ExPodium, Building B (Gallery)

The Sustainable Water Solutions Expo, a co-event of the Budapest Water Summit held between 28-30 November 2016, aims to display internationally recognised water management technologies. Focusing on sustainable, innovative, environment-friendly solutions in the field of drinking water production, water treatment and water supply, the exhibition provides an excellent opportunity for exhibitors to present and discuss their innovative and sustainable technologies.

The second and third day of the Expo (29-30 November) will be open to the public, upon previous registration.

On 29 November, an Innovation Day will be organised, dedicated to present trends and developments of water innovation and to provide a platform for start-ups from Hungary and the neighbouring countries to introduce themselves.

10:20 – 11:30 Session 1: Trends in Water Innovation (Part 1)

- Speakers:**
- Mr Csaba Haranghy**, Chief Executive Officer, Budapest Waterworks, Hungary
Welcome Address
 - Ms Charlina Vitcheva**, Deputy Director-General, Joint Research Centre of the European Commission
Opening Speech
 - Mr Pieter de Jong**, EU Liaison Officer, Wetsus, European Centre of Excellence for Sustainable Water Technology, The Netherlands
Wetsus, a new innovation model, to cooperate & solve global challenges
 - Mr Yossi Yaacoby**, Director of WaTech Division, Mekorot Israel National Water Co., Israel
Connecting water innovation dots

11:30 – 12:30 Session 2: Water start-ups from Hungary

- Presentations:**
- Ms Sarolta Hüttl**, Team Leader, ReHydrant Team, Hungary
ReHydrant project
The ReHydrant Project is an innovative and creative initiative, inspired by the lack of public drinking fountains. These taps, designed by the founders of the project,

The Sustainable Water Solutions Expo is jointly organised by the Ministry of Foreign Affairs and Trade and the Hungarian Water Cluster

Website: www.budapestwatersummit.hu/budapest-water-summit/water-expo/

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transform fire hydrants quickly, easily and inexpensively into drinking fountains without affecting the original function.

Mr Balint Tóth, designer, S'39 Hybrid Design Manufacture, Hungary
Caltrope – The green lace

Its modular system offers an organic and nature-oriented answer to the challenges evoked by sea level rise and land loss.

Mr Csaba Kakas, Co-founder, Inventor & CEO, Hungary
5L project

The team of 5L created a showerhead that uses only 5 litres of water / shower.

Mr Tamás Koncsos, Leader of I-WASP Project, Hungary
iWasp project

I-WASP is a state-of-the-art decision support system for waste water treatment plant operators and decision-makers. The decision support system aims to reduce energy costs by modelling operation scenarios and finding optimal solutions.

10-minute presentations, followed by 5-minute reflections made by the panel members of Trends in Water innovation.

14:30 – 15:15 Session 3: Water start-ups from Central and Eastern European countries (Poland, Slovakia, the Czech Republic)

Presentations: **Ms Petra Bognár, Designer**
Mr Bence Dobos, Designer

*Hiking trail of warm rocks - MOME, Metal Design x Architecture, MA Graduation Project
The aim of the experiment and research project is to use mineral content to build baths and warming units presenting time and multisensorial perception.*

Mr Peter Olos, Project manager, Slovakia
Ekocisticka project

Ecological wastewater treatment plant (EWTP) by root zone method (wetland wastewater treatment system)

Mr Matúš Izakovič, Marketing and technology integration, Heat2go project, Slovakia
heat2go project

Water management in households

Ten-minute presentations followed by 5-minute reflections made by the panel members of Trends of Water innovation.

15:15 – 15:45 Session 4: Trends in Water Innovation (Part 2)

Presentations: **Mr Siegfried Egner**, Head of Department Physical Process Technology, Fraunhofer Institute for Interfacial Engineering, Germany

Towards a self-sustained wastewater treatment plant

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New technical approaches such as electrolytic precipitation of nutrient-salts and their direct winning as fertilizers in combination with advanced high-load bio-reactors and disintegration of the biomass-matrix will allow realizing the vision of a self-sustained wastewater treatment plant. A concept will be presented how a typical plant could be upgraded.

Mr Márton Kenyeres, CEO, Biopolus Technologies Inc., Hungary

How to close circles in the circular economy?

The guiding principles of circular economy are grounded in the study of living systems. Such as in living organisms, the different subsystems of water, food, energy, and waste management are heavily interdependent and cannot be efficiently tackled in isolation. In order to make our current and emerging cities safe and efficient we need to adopt a holistic approach.

15:45 – 16:45 Session 5: Special Water Innovation

Presentations: **Mr Pál Kiss**, CEO, Thermowatt Ltd., Hungary

Innovation in waste-heat utilization - waste heat recovered from wastewater. Using green energy sources and utilizing waste heat are essential to address climate change resulting from increasing gas and oil production and the burning of fossil fuel.

Mr Pál Hoffmann, Tanker Port Ltd., Hungary

Green Island project

The Green Island is a multifunctional and innovative service unit for the shippers, where they can refuel, take wastewater and use other necessary services. The Green Island applies an unexampled technology and it operates in the name of the environmental protection, as it uses solar cells to gain energy, and also takes over and treats some of the environment polluting wastes on the spot.

Mr Jan Krejčík, Vice-president for Urban Water, DHI Group, The Czech Republic
Water 4.0 – Intelligent solutions for water environments

Mr György Sipos, Associate Professor, Department of Physical Geography and Geoinformatics University of Szeged, Hungary
New Hungarian Setup and Operation of the Hungarian Drought Monitoring System

Mr Károly Gombás, Head of Department, North-Transdanubian Water Directorate, Hungary

Reform and harmonised approach on the floodplains - consensus for long-term sustainability

18:00 – 18:30 Water Innovation of the BWS 2016 EXPO - Award Ceremony

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