

weftec[®] 2019
the water quality event[™]



GLOBAL CENTER PROGRAM

WATER ENVIRONMENT TECHNICAL EXHIBITION AND CONFERENCE
MCCORMICK PLACE CHICAGO, ILLINOIS, USA | 21 – 25 SEPTEMBER, 2019



GREELEY AND HANSEN

designing
better urban
environments
worldwide

water wastewater infrastructure

Dedicated to providing sustainable
water resources solutions to
municipalities worldwide.



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GLOBAL CENTER INAUGURATION

Monday, September 23 | 10:00 am - 10:20 am



Dale N. Tasharski
Deputy Director General of
the U.S. & Foreign Commercial
Service International Trade
Administration



Dennis Lee Forsgren, Jr.
Deputy Assistant
Administrator, Office of
Water, U.S. Environmental
Protection Agency (EPA)

DENMARK'S WATER VISION

Monday, September 23 | 10:20 am - 10:30 am



Hon. Lea Wermelin
Minister for the Environment of Denmark

Today more than 800 million people around the world have no access to clean drinking water. In only 12 years, by 2030, 50 percent of us will only have limited access if we do not act. It is an alarming figure that is expected to increase with the rising global temperatures caused by climate change. Therefore, it is important to focus on SDG 6 to promote access to and sustainable management of water and sanitation for all people. Development and application of technological solutions is important to ensure clean water for the global population and in Denmark we have some of the best global water companies that can produce a wide range of technological solutions.

Organized by:
Water Technology Alliance/Consulate General of Denmark
and the Danish Export Association

DRIVING WATER RESILIENT BUSINESS – OUTCOMES OF WORLD WATER WEEK 2019

Monday, September 23 | 10:30 am - 11:00 am

Torgny Holmgren
Executive Director, SIWI

Tom Kunetz
President, WEF (Invited)

The session will share global experiences from Business Leaders meeting at the World Water Week in Stockholm on how to build and finance more robust, forward-thinking and adaptive approaches to address growing water risks. It will also share outcomes of the 2019 World Water Week on the theme Water and Society -Including All, where a special focus was given to young professionals. World Water Week is organized by SIWI.

Organized by:
Stockholm International Water Institute (SIWI)

BREAK

Monday, September 23 | 11:00 am - 11:30 am

WORLD-CLASS WATER CLUSTER

Monday, September 23 | 11:30 am - 12:30 pm

Zuwhan Yun
President of Korea Water Partnership, Director of Operation, Korea Environment Corporation (KECO)

Sally Gutierrez
Action Director, US EPA

J. Lee
Deputy Director, MoE (ROK)

Hein Molenkamp
Managing Director, Water Alliance
PUB/Aqua-Valley (TBC)

The Water cluster becomes a key for the development of water technology and industry. This session shares the current practice and experiences in National Water Cluster (\$230M) in Daegu, Korea.

Organized by:
Ministry of Environment (MoE), Republic of Korea
Korea Water Partnership (KWP)

BREAK

Monday, September 23 | 12:30 pm - 1:00 pm

MONDAY, SEPTEMBER 23

DEALING WITH DECLINING FLOWS: LESSONS FROM JAPAN

Monday, September 23 | 1:00 pm - 2:00 pm

Yosuke Matsumiya
JSWA

Yasuhide Honda
MLIT

Hiroki Itokawa
JS

Akihiro Nagano
SANKI

Liang Zhang
MAEZAWA

Declining flows is the hottest topic in the globe. This session will focus on how the Japanese wastewater industry challenge the declining flows and shrinking customer bases. Four panelists leading Japanese wastewater industry will introduce best practices and discuss the challenges of declining flows and shrinking customer bases. You will get insight from the Ministry, utility partners and Japanese companies.

Organized by:
Japan Sewage Works Association (JSWA)

INDUSTRIAL WATER: CHALLENGES AND OPPORTUNITIES

Monday, September 23 | 2:00 pm - 3:00 pm

Dr. Val S. Frenkel
Vice President of Process Engineering, Greeley and Hansen

Patricia Sinicropi
Executive Director, WaterReuse Association

Wenny Noha
Principal Engineer, PepsiCo

Richard Grubbs
Global Water Leader, Chevron Oil Co

John Campbell
Principal Biotechnologist, Hilmar Cheese Co.

Ray David
Associate, Greeley and Hansen

In this session, industry experts will discuss water management practices for different industries, as well as global industrial water trends, including where we should be focusing our efforts to minimize water use and reduce water footprint. Success stories will be shared along with potential and actual actions to optimize and minimize water use by industry.

Organized by: Greeley and Hansen

PUB, SINGAPORE'S NATIONAL WATER AGENCY, TECHNOLOGY ROADMAP AND UPCOMING INFRASTRUCTURE PROJECTS

Monday, September 23 | 3:00 pm - 4:00 pm

Sok Gek Ang
Senior Manager, PUB Singapore

In this session the PUB, Singapore representative will share their technology needs and project opportunities in areas of Smart Technology, Water Reuse, Resource Recovery, the Water-Waste-Energy Nexus and Smart Grids, etc.

Organized by:
PUB Singapore

LEVERAGING EUROPEAN PARTNERSHIPS TO DRIVE MARKET OPPORTUNITIES

Monday, September 23 | 4:00 pm - 5:00 pm

Dean Amhaus
President & CEO, The Water Council

Beverley Ferrara
European Representative, The Water Council

Katy Sinnott
Vice President, International Business Development Division –
State of Wisconsin

Dr. Miquel Rovira
EURECAT and Catalan Water Partnership

Hein Molenkamp
Managing Director, The Water Alliance

This panel will discuss how the Water Council and WEDC are working with multiple European partners to drive market opportunities, assist with 'soft leading' in the U.S. and build relationships to strengthen water technology deployment.

Organized by:
The Water Council, Milwaukee, WI and the Wisconsin
Economic Development Corporation (WEDC)

GLOBAL COLLABORATION THROUGH INNOVATION

Tuesday, September 24 | 9:00 am - 10:00 am

Dean Amhaus

President & CEO, The Water Council

Hein Molenkamp

Managing Director, The Water Alliance

Jacee Yoon-Jeong Choi

Deputy Manager, Korea Water Cluster (KWC)
Korea Environment Corporation (K-eco)

Sok Gek Ang

Senior Manager Industry and Technology Collaboration
Department, PUB Singapore's National Water Agency

Global Tech Hub Alliance Trial Challenge project and outcomes. Representatives from several global water hubs will discuss international collaboration and how the hubs are helping to match specific water challenges with solutions from around the world. The Global Water Tech Hub Alliance works in two directions: supporting locally developed innovations in reaching out to foreign markets; and helping those seeking solutions to tap into a global pool of innovative technologies.

Organized by:

The Water Council, Milwaukee, WI

IMAGINE H2O ASIA: A BRIDGE FOR WATER STARTUPS TO SINGAPORE AND SOUTHEAST ASIA

Tuesday, September 24 | 10:00 am - 11:00 am

Tom Ferguson

VP Programming, Imagine H2O

Kelly Trott

Senior Director, Imagine H2O

Kelven Lam

Program Manager, Imagine H2O

Dr. Chee Meng Pang

Chief Engineering & Technology Officer, Singapore PUB

Vinod Ramachandran

Global Open Innovations Leader, Suez

Take Ogawa

CEO, Veracet

Brian Moloney

CEO, Stormharvester

Nathan Cai

CEO, MicroHAOPS

Henrik Hagemann

CEO, Puraffinity

John Gradek

CEO, Water Warriors

In 2019, Imagine H2O launched its first regional hub in Singapore to bridge water technology startups to utilities and business across Southeast Asia. In partnership with Enterprise Singapore, SUEZ, PUB, and Moya Asia, Imagine H2O Asia selected eight startups

to participate in the inaugural accelerator. From smart flood control systems to water filtration targeting phosphorus removal, Imagine H2O Asia startups provide a range of solutions to the water challenges facing this fast-growing region. Join us to learn more about Southeast Asia's water innovation priorities and hear pitches from Imagine H2O Asia's startups.

Organized by:

Imagine H2O, Enterprise Singapore

OVERCOMING DESIGN AND CONSTRUCTION ISSUES RELATING TO WATER AND WASTEWATER IN REMOTE LOCATIONS

Tuesday, September 24 | 11:00 am - 12:00 noon

Aaron Sutton

Civil Engineer, GHD

Chris Hertle

Chemical Engineer, Global Water Market Leader, GHD

Bryan Ryley

Construction Manager, GHD

There are specific issues with facilities on islands and other remote locations that require consideration during design and construction to provide a robust outcome.

Some of these include:

- Access to the locations (difficulty to get equipment and people to site)
- Cost to build and install
- Cost to operate and maintain
- Need for modular solutions - manufacture offsite and transport
- Lack of skilled operators and maintenance staff
- Need for appropriate technology for the location and capabilities
- Corrosive environments
- Communications and automation
- Unexploded Ordinances

Panel members have experience troubleshooting, designing, constructing and commissioning water and wastewater facilities on islands such as Guam. In the Commonwealth of the Northern Marianas Islands, in the Great Barrier Reef, in the Torres Strait and at remote indigenous and mining operations.

Organized by: GHD

BREAK

Tuesday, September 24 | 12:00 noon - 1:00 pm

TUESDAY, SEPTEMBER 24

CANADIAN CEO ROUNDTABLE - SMARTER UTILITIES SHAPING THE DIGITAL FUTURE OF WATER

Tuesday, September 24 | 1:00 pm - 2:00 pm

Andrew Macklin

Managing Editor of Water Canada

Mohamad Mahmoud

Co-Founder and CEO of EMAGIN (Ontario)

Ed Quilty

CEO at Aquatic Informatics (British Columbia)

Jodi Glover

Co-Founder and CEO at Realtech

Digitalization is changing how water and wastewater utilities can collect and analyze data. This session will provide examples of how Canadian companies are helping utilities improve water quality, find operational efficiencies, and maintain infrastructure more effectively.

Organized by:

Water Canada and Consulate General of Canada

TOWARD WATER WISE CITIES

Tuesday, September 24 | 2:00 pm - 3:00 pm

Diane d'Arras

IWA President

Sudhir Murthy

IWA Senior Vice President

Krishna R Pagilla

University of Nevada, Reno, Chair of the IWA USA National Committee

Carl-Emil Larsen

CEO of Danva (The Danish Water & Wastewater Association),

Peter Vanrolleghem

Director of Centreau (Canada)

IWA has developed a framework for Waterwise Cities with 17 principles. Water professionals and Cities can share those principles and develop innovative technologies and thinking around them. The 2020 IWA Leading Edge Technology (Reno), the 2020 IWA World Congress (Copenhagen) and the 2022 IWA World Congress (Toronto) will be opportunities for North America to show, to learn and exchange with water professionals and cities from all over the world.

Organized by:

International Water Association (IWA)

SAUDI WATER PARTNERSHIP COMPANY (SWPC) PROGRAM

Tuesday, September 24 | 3:00 pm - 3:30 pm

Abdullah Al-Dhafeeri

Sr. Transaction Specialist, SWPC

Omar Al-Ayoubi

Water Management Lead, SWPC

Saudi Arabia is the largest producer of desalinated water in the world. With a young and growing population, and a strong vision to diversify the economy, the Kingdom presents unparalleled opportunities within the water sector.

In this session, the Saudi Water Partnership Company (SWPC) will provide an overview of the water sector privatization PPP model in Saudi Arabia, along with upcoming opportunities for international collaboration.

Organized by:

Saudi Water Partnership Company (SWPC)

The entire session will be in spanish only, but if necessary all speakers can translate into english and facilitate the discussion of those with limited language command.

OPTIMIZATION OF WASTEWATER TREATMENT AND WATER REUSE IN THE AMERICAS

Tuesday, September 24 | 3:45 pm - 4:30 pm

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José Jimenez

(Municipal Symposium Chair) Brown & Caldwell, Orlando, FL

Diego Rosso

(Conference Chair) University of California, Irvine Germano Salazar-Benites Hampton Roads Sanitation District

In this session the theme of process optimization and energy reduction will be presented. Given the limited time, three short presentations by the organizers will introduce the topic, spanning from nutrient removal, aeration and energy, and water reuse.

The selected topics for presentation are:

1. Nutrient Removal Technologies for Latin America
2. Energy Optimization in Wastewater Treatment Plants
3. SWIFT: An Intelligent Alternative for Water Reuse

Organized by/Organizado por:

José Jimenez (Municipal Symposium Chair) Brown & Caldwell, Orlando, FL

Diego Rosso (Conference Chair) University of California, Irvine Germano Salazar-Benites, Hampton Roads Sanitation District

GLOBAL CENTER RECEPTION

Tuesday, September 24 | 4:30 pm - 6:00 pm

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GREELEY AND HANSEN

OPTIMIZACIÓN DE PLANTAS DE TRATAMIENTO Y VALORIZACIÓN DE RECURSOS EN LAS AMERICAS

Martes, 24 de septiembre | 3:45 pm - 4:30 pm

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En esta sesión se discuten las temáticas de remoción y reutilización de nutrientes, análisis energético y reutilización de agua en plantas de tratamiento y valorización de recursos.

Temas de discusión:

1. Tecnologías de remoción de nutrientes en América Latina
2. Optimización energética en PTAR
3. SWIFT: Una alternativa inteligente para el reuso de agua



Connecting water quality professionals across the globe!

As a leading organization for water quality professionals, the Water Environment Federation (WEF) is committed to supporting the global water community by providing resources and tools needed to effectively educate and train the next generation of water quality stewards.

WEF's Global membership will give you access to people, information, and opportunities that will help strengthen your career—at the click of a button. Global membership allows you to stay informed, enhance your professional network, advance your career, and save money. You'll find substantive information and technical resources, products and services available through WEF's website.

Global members enjoy the following exclusive WEF member benefits:

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- Speaking and publishing opportunities
- Exclusive discounts on WEF publications and meeting registration*

For more information on the Global membership option, please visit us online at www.wef.org. You may also contact our Customer Service team by phone at +1-571-830-1545 or e-mail csc@wef.org.

* Based on program guidelines. Restrictions apply.

