



## ecoSTP 2018

JUNE 25<sup>TH</sup> – JUNE 27<sup>TH</sup>, 2018  
WESTERN UNIVERSITY,  
LONDON, ONTARIO, CANADA



## WELCOME TO ECOSTP18 CONFERENCE ECOTECHNOLOGIES FOR WASTEWATER TREATMENT

Following three successful IWA Specialized International Conferences on “Ecotechnologies for Wastewater Treatment (ecoSTP)” in Spain (2012), Italy (2014) and the United Kingdom (2016), we are pleased to announce the 4th ecoSTP conference (IWA ecoSTP18) to be held in London, Ontario, Canada.

The goal of this conference is to facilitate the efficient transfer of knowledge into practice - removing roadblocks between scientific discoveries and commercial implementation, essentially bridging the “valley-of-death” in the innovation cycle.

In cooperation with Western University and Water Environment Federation (WEF), the IWA ecoSTP18 Conference aims to attract a global audience with representation by technology providers, consulting engineering firms, academia, and utilities.

IWA ecoSTP18 will promote discussion and exchange of ideas through a combination of pre-conference workshops and network-centered conference sessions. A number of panels coordinated by visionary leaders will discuss the role of transformative technologies for wastewater treatment.

On behalf of the Organizing and Scientific Committees, we are delighted to invite you to the 4th IWA Specialized International Conference “Ecotechnologies for Wastewater Treatment (IWA ecoSTP18)” to be held in London, Ontario, Canada during June, 2018.

Dr. Ted Mao (Chair)  
Dr. Domenico Santoro (Co-Chair)  
Dr. George Nakhla (Co-Chair)

### Sponsors:



# Program Overview

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## TOPICS

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This conference will focus on innovative wastewater treatment technologies that ultimately enable the emerging paradigm shift from wastewater treatment plants (WWTP) to water resource recovery facilities (WRRF) and alignment with the “the three factories” vision. Accordingly, the conference will be structured to accentuate the following three major themes:

- The Water Factory, with emphasis on water treatment, reclamation and reuse;
- The Energy Factory, with emphasis on energy recovery and the net-zero energy goal;
- The Value Products Factory, with emphasis on resource recovery and value product creation.

Focus will be placed on scientific contributions where good modeling practices and robust experimentation are presented, with the goal of overcoming barriers for technology adoption at full scale. Case studies of successful commercialization will be shared together with best practices and lessons learned. Limitations and new development needs associated with these technologies will also be discussed. Examples of topics discussed in the conference include:

- Emerging technologies for wastewater treatment and reuse (e.g., microsieving, granular sludge, short-cut nutrient removal, etc.);
- Emerging opportunities for resource recovery (e.g., nutrients, valuable organic compounds such as proteins, cellulose and bioplastics, and metals and other value products);
- Strategies for energy optimization, carbon diversion and biogas production;
- Integrated plant-wide assessment, including advanced modeling, optimization and control;
- Microbial ecology and ecotoxicology;
- Greenhouse gas emissions (quantification and management);
- Economic impacts (capital costs, operational costs and economic efficiency).

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## REGISTRATION INFORMATION

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All attendees who wish to attend the conference must complete their registration online before attending the conference - **registration opens December 15, 2017.**

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## IMPORTANT DATES

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<b>September 26, 2017</b>	Call for abstracts
<b>December 27, 2017</b>	Deadline for submission of abstracts
<b>February 25, 2018</b>	Abstract notification and conference program announcement
<b>April 20, 2018</b>	Discounted early registration deadline
<b>April 20, 2018</b>	Accepted oral and poster presentation registration deadline
<b>May 20, 2018</b>	Final conference program announcement

# Plenary Speakers



**Dr. Art K. Umble**

Ph.D., PE, BCEE, WEF Fellow. Vice President, Global Wastewater Practice Leader. MWH now part of Stantec Consulting Services, Inc.



**Professor Damien Batstone**

Deputy Director, Education of the Advanced Water Management Centre and Professor in the School of Chemical Engineering, The University of Queensland



**Dr. James L. Barnard**

Ph.D., IWA Fellow, WEF Fellow, BCEE., Dist MASCE Global Practice & Technology Leader of Advanced Biological Treatment Black & Veatch



**Professor Mark Van Loosdrecht**

Chair Environmental Biotechnology TU-Delft  
Editor-in-Chief Water Research

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## ABOUT LONDON ONTARIO

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The City of London is nestled in the heart of Southwestern Ontario and stands at the forks of the Thames River, just a two-hour drive from Toronto, to the east, and two hours from the Windsor-Detroit border, to the west. London is one of the oldest cities in Canada and the 11th largest, with a population of over 384,000. We are a picturesque community providing a mixture of history and convenience, excitement and contentment, tradition and originality. We are one of those unexpected cities with constant surprises and delights for our visitors. Our tree-lined streets have brought distinction to the name “The Forest City”. London is large enough to provide all the amenities visitors and residents desire, yet retains the friendliness of a smaller community.

Western University is located in the north-end of the City, just 20 minutes from the London International Airport and 10 minutes from downtown London and the bus and train stations. The University provides the perfect setting and facilities for any size gathering, whether it's a group of 50 or 3,000 delegates.

If you are interested in sponsoring ecoSTP 2018, please contact us [info@ecostp2018.com](mailto:info@ecostp2018.com) for our available sponsorships.

#### **CONTACT US**

Questions or Comments about ecoSTP18?

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