

2nd IWA Polish Young Water Professionals Conference



Call for Papers

Emerging Technologies
in Water and Wastewater Sector

12 - 14 February 2020 Warsaw, Poland



Organised by:



Faculty of Building
Services, Hydro and
Environmental Engineering

WARSAW UNIVERSITY OF TECHNOLOGY

Warsaw University
of Technology



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POLAND

YOUNG WATER PROFESSIONALS
PROGRAMME

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POLITECHNIKA WARSZAWSKA

Dear young water and senior professionals,

On behalf of the Programme Committee of 2nd IWA Polish YWP 2020 and as the Head of the Department of Water Supply and Wastewater Management at the Faculty of Building Services, Hydro and Environmental Engineering at the Warsaw University of Technology, I would like to welcome you in Warsaw - the capital city of Poland, located at Vistula River.

Every year, the Warsaw University of Technology, the oldest technical university in Poland and one of the largest and highest-ranking in the Central Europe, organizes national and international conferences and meetings.

The Faculty of Building Services, Hydro and Environmental Engineering conducts its educational and scientific mission along with applied research in a wide range of disciplines related to environmental engineering and protection. For over 100 years, the Faculty has been successfully educating highly qualified engineers who can cope with challenges in the water sector.

After the success of the 1st IWA Polish YWP Conference 2017 in Cracow, I would like to invite you to the 2nd IWA Polish YWP Conference 2020. The leading motto of the conference: "Emerging Technologies in Water and Wastewater Sector" emphasizes the practical aspects of the scientific research and technological developments. The conference will provide an excellent opportunity to present the latest concepts and technologies in water and wastewater sectors. Moreover, IWA Polish YWP Conference will develop your water career and will boost the future of the Polish water sector. During free wintertime, we encourage the participants to discover Warsaw!



Prof. Marian Kwietniewski
Head of the Department of Water Supply and Wastewater Management,
Faculty of Building Services, Hydro and Environmental Engineering,
Warsaw University of Technology
Chairman - Programme Committee

Dear Colleagues,

On behalf of IWA POLAND, it is my pleasure to invite you to join us the 2nd IWA Polish Young Water Professionals Conference 2020 to be held in Warsaw, the capital city of Poland.

Particularly, I would like to encourage young water professionals to participate in this event. The YWP conferences provide a unique opportunity to share your knowledge, meet with other YWPs and learn from senior water professionals. The conference will consist of workshops, technical sessions and a poster session, everything in the climate similar to the specialized conferences organized by IWA. So this may be the perfect first step in your professional career!

The main motto of the conference is "Emerging Technologies in Water and Wastewater Sector" in response to the growing demand for more efficient and sustainable solutions for water supply and wastewater disposal. Ultimately, we should achieve the closed water loop with recovery of other resources to be in line with the circular economy concept.

While thinking about this challenge, keep in mind that the innovation in the water sector was born in the city over 130 years ago! Then Warsaw became a member of an elite group of six European cities equipped with modern water supply and sewer systems. I am convinced that the coming conference should refer to this tradition and be held in the spirit of innovation and inspiration for new ideas.

I look forward to seeing you in Warsaw!



Prof. Jacek Małkinia, IWA Fellow
Gdansk University of Technology
Chairman - IWA POLAND
Co-Chairman - Programme Committee

Dear colleagues – young water professionals,

For a few years, we have aimed at building a strong relationship between the IWA members in Poland. The 1st event organized by the IWA Poland for young water professionals was the 8th Eastern European IWA YWP Conference in Gdansk in 2016. Encouraged by positive experiences, we met again in 2017 at the 1st IWA Polish YWP Conference in Cracow. In 2020 we will give you an opportunity to meet other young water professionals in Warsaw.

Warsaw is a European capital, in which tradition interlaces with modernity. It can be seen in the city's architecture, customs and even cuisine. Warsaw has a rich history, beautiful parks, interactive museums, and first of all, wonderful citizens. The city is also known for its great universities and extensive scientific cooperation. We are convinced that at the 2nd Polish IWA Young Water Professionals Conference, you will have a chance to experience it all yourself!

The Organizing Committee will help you find all of the necessary information that you may need. We offer a reduced registration fee for young water professionals and PhD students under 35; an additional reduction is possible for the IWA members.

Many of you who have participated in some previous IWA conferences already know that the conference topics present a high level of scientific interest. Coffee breaks and lunch breaks will be long enough to give you an opportunity to exchange ideas and build a professional network.

Use this chance to join our network of young water professionals. Please, book the middle of February 2020 in your calendar. Looking forward to seeing you all in Warsaw!

D.Sc. (Eng) Monika Żubrowska-Sudoł
Associate Professor
Faculty of Building Services, Hydro and Environmental Engineering,
Warsaw University of Technology
Chairman - Organising Committee



Dear young and senior water professionals,

It is great honor to be involved in the organization of the 2nd IWA Polish YWP Conference 2020, which is going to be held in Warsaw, Poland. The Conference's location is not a coincidence, Warsaw a place with an extensive history, also known as "Phoenix City" because of complete reconstruction after World War II, which had left almost all buildings in ruins. Nowadays, the city is the 8th most-populous in the European Union as well as significant Centre of Research, Development, Innovation and Business. The Old Town of Warsaw was listed as a World Heritage Site by UNESCO. Other main architectural attractions include the Castle Square with the Royal Castle and the iconic King Sigismund's Column, the Wilanów Palace, the Łazienki Palace, St. John's Cathedral, Main Market Square. Moreover, Warsaw became one of the most dynamic and livable metropolitan cities in the Central and Eastern Europe as well as appreciated tourist and business destination.

I'm sure that the meetings during this YWP Conference will be intensive and the debates vivid, that participants will have an opportunity to develop and maintain future cooperation between industry-business and academic research. This time the Programme Committee will be represented by such great scientists, as Prof. Kwietniewski and Prof. Mąkinia, so I have no doubt that we will have a very high level of Conference. Those interested in a cutting edge fundamental applied research and new approaches to planning, design and operations of water and wastewater facilities should consider attending.

I hope this event, similar to 1st IWA Polish YWP Conference 2017, which was held in Cracow, will bring a great success to all participants and will help to develop bridge between IWA and Polish YWP Chapter. We look forward for great participation of the Polish YWPs, but we are open to receive delegates from around Europe and worldwide.

Dr (Eng) Jakub Drewnowski
IWA YWP Polish Chapter Chair
Gdansk University of Technology, Poland
Co-Chairman - Organising Committee



Main topics of the conference

TOPIC 1: Municipal water sector

- ◆ Water quality, resources and its restoration
- ◆ Design, operation, modelling, optimization and management of water supply systems
- ◆ Innovative solutions and technologies in water management
- ◆ Monitoring and control in water supply
- ◆ Energy balance and renewable energy sources in water supply
- ◆ Circular economy in water sector
- ◆ Economics of water sector

TOPIC 2: Municipal wastewater sector

- ◆ Design, operation, modelling, optimization and management of wastewater treatment plants
- ◆ Innovative solutions and technologies in wastewater management
- ◆ Nutrient removal and recovery
- ◆ Anaerobic treatment process
- ◆ Sludge drying and incineration
- ◆ Sewage sludge and waste management
- ◆ Environmental Biotechnology
- ◆ Modern control and monitoring systems in wastewater management
- ◆ Stormwater management
- ◆ Design and operation of sewer systems
- ◆ Energy balance and recovery in wastewater treatment plants
- ◆ Circular economy in wastewater sector
- ◆ Economics of wastewater sector

TOPIC 3: Industrial water and wastewater sector

- ◆ Water quality requirements for special purpose
- ◆ Industrial wastewater quality and management
- ◆ Design, operation, modelling, optimization and management of water and industrial wastewater treatment plants
- ◆ New treatment technologies and engineering systems
- ◆ Nutrient and energy recovery, energy balance
- ◆ Circular economy in industry

Important Information

Active Participants

Young Water Professionals (< 35 years old)

Conference time

12-14 February 2020 (3 days)

Location

Centre for Innovation and Technology Transfer Management of Warsaw University of Technology
ul. Rektorska 4, 00-614 Warsaw

Registration fee

Students, PhD and YWP (up to 35 years old)

- ◆ IWA members - 450 PLN, Non IWA members - 600 PLN Academic (+35 years old) and Industrial Participants
- ◆ IWA members - 450 PLN, Non IWA members - 700 PLN

Registration fee includes: conference proceedings, coffee breaks and lunches. The additional costs such as accommodation, transportation, visa and insurance are not included in the registration fee.

Key Dates

1st June 2019 - Abstracts submission opening.
27th October 2019 - Deadline for abstracts submission.
8th November 2019 - Notification of acceptance, registration opens.
8th December 2019 - Submission of full papers.
26st January 2020 - Registration closes.

Procedure for Submission

Two forms of the active participation will be possible:

- ◆ platform presentation,
- ◆ poster presentation.

Participants are encouraged to submit abstracts of papers in English (but Polish is also acceptable). The abstracts should be limited to two A4 pages, font Arial size 12 pt (including figures and tables). Abstracts must provide a description of the most important achievements to allow for a sound referee review. Abstract should also contain:

- ◆ Author's name, date of birth and affiliation,
- ◆ title of presentation,
- ◆ type of presentation: poster or platform,
- ◆ e-mail, postal address and telephone number of corresponding author.

The abstracts should be submitted online:

<http://iwa-ywp.pl> (in the section SUBMISSION)

Submissions are welcome from 1st June 2019 and must be received before 15th September 2019.

The submitted abstracts will be peer reviewed. A notification of acceptance will be sent before 7th October 2019.

A full manuscript (max. 8 pages) must be submitted to the Organising Committee until 8th December 2019 via e-mail: 2ywp.conference@gmail.com.

The guidelines on a full manuscript format and more information about the conference can be found on the website:

IWA Poland: <http://iwa-ywp.pl> (Conference) and www.iwa-network.org (please see in Events 2020).

At least one author of each selected paper must register and attend the conference to present the paper (poster or platform presentation). The authors cover their own costs (registration fee, travel, accommodation, etc.) to attend the conference.

The best papers will be recommended by Scientific Committee to be also reviewed by IWA and published in the journals: Water Science and Technology, Water Supply and Water Practice and Technology.

Invitation

Personal invitation will be provided on request by the chairman of the Organising Committee - D.Sc.

Monika Żubrowska-Sudoł via email:

2ywp.conference@gmail.com

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IWA YWP POLAND Warsaw 2020



YOUNG WATER PROFESSIONALS



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