


Prague photo © CzechTourism.com



12th IWA Specialised Conference on Design, Operation and Economics of Large Wastewater Treatment Plants

September 6 – 9, 2015, Prague,
Czech Republic, Diplomat Hotel Prague



First Announcement
& Call for Abstract

WELCOME TO PRAGUE

On behalf of the International Water Association (IWA) and its Specialist Group on Design, Operation and Costs of Large Wastewater Treatment Plants, the Department of Water Technology and Environmental Engineering of the Institute of Chemical Technology, Prague, and the Czech Water Association, it is our pleasure to invite you to join us for the IWA Specialised Conference "Design, Operation and Economics of Large Wastewater Treatment Plants". This conference is the 12th conference in a series when the first one was organised already in 1971 in Vienna. The 2015 Conference is the 3rd one being organised in Prague and the Czech Water Association as a national member of IWA is very glad and proud to be a host of this prestigious conference after 12 long years. The world has changed dramatically during those last years, the number of people involved in the Large Wastewater Treatment Plants (LWWTP) topics has increased significantly and also the amount of information available multiplied several times. There are many new sources of information, not only internet with professional web pages and with wonderful literature searching machines, but also digital journals and books, videoconferences, networking on social nets, etc., etc. This development has created a very strong competition for traditional conferences where people have to travel, very often long trips, to the conference venue, pay the registration fees, pay for more and more expensive hotels, and mainly stay out of the office for several days. In spite of all this drawbacks we are inviting you for a traditional conference where you can listen to live speeches and discuss with your colleagues personally, not only on the screen of your computer. We expect you will come to Prague because we still believe in two strong advantages of traditional conferences, viz.:

- i) Effectiveness of information exchange – the listening and discussion to the authors is still the most rapid and effective way of information exchange when you can be involved in discussion groups of several people and formulate your ideas in interactions with others.
- ii) Social dimension of the conference. The conference visitors can meet and talk with old friends in a friendly atmosphere during the breaks or conference evenings. The new members of the LWWTP community can make very useful contacts for their future career at the conference. Well, you can have some nice chat also on internet but you cannot enjoy the glass of excellent Czech beer with your partner in this way.

You can find on conference web page (www.lwwtp2015.org) some photographs from the last LWWTP conference in Prague in 2003. They document the creative but at the same time very relaxed atmosphere of the conference. We are convinced that we would be able to create again such a friendly environment for you and that few days spent at the conference will be for you a kind of relaxation in your busy everyday life. In this effort we will have one strong supporter, namely, the City of Prague. Prague is one of the most beautiful towns of the world. Prague is known for its historical monuments including the masterpieces of gothic or baroque architecture as well as for its cosy pubs where you can enjoy fabulous Czech beer and unhealthy but very tasty Czech cuisine. Last but not least, Prague has one of the longest tradition in wastewater treatment in Europe and you will be able to visit the historical wastewater treatment plant from 1906.

Let us hope on behalf of the conference organisers that the advantages of our traditional conference will outweigh the discomfort of travelling to Prague. Welcome to Prague in September 2015!



Conference Chairman
Prof. Jiří Wanner, Ph.D., D.Sc.
Institute of Chemical Technology
Prague, Czech Republic



Secretary of Conference SPC
Prof. Dr. Norbert Jardin
Ruhrverband
Essen, Germany

INVITATION TO THE CONFERENCE

BACKGROUND

The conferences on LWWTP are the most traditional specialised conferences organised by IWA specialist groups. The first conference (at that time called “workshop”) was held there and then was repeated in four-year periods in Vienna and since 1987 also in Budapest and Prague. The history of this conference and LWWTP Specialist Group is connected with such famous names as von der Emde, Kroiss or Bode. The conference has been always a good place for meeting with leading experts in the field from Europe, USA and Canada, Australia, South Africa, Latin America, South-East Asia and from many other parts of the world. When this conference was held in Prague in 2003 for last, it was attended by almost 350 people from 37 different countries.

The papers submitted for presentation at the conference are evaluated by the conference Scientific Programme Committee. The SPC of the LWWTP conferences is today a well-established body of internationally recognised specialists in the conference topics. For the Prague conference in 2015 the committee was partially updated by new and younger professionals, which also helped to broaden the expertise of the committee. The main task of the members of the SPC is to guarantee that all papers accepted for both oral and poster presentations will meet the high scientific and technical standards, so typical of this traditional series of conferences.

The lecture programme of the conference is formed from the best papers selected by the Scientific Programme Committee (SPC). The final shape of the programme is done by the conference Management Committee. The Management Committee (MC) of the IWA LWWTP conferences consists of members of the IWA Specialist Group on LWWTP and their assistants from countries hosting the conference series (Austria, Czech Republic, Hungary) who are directly responsible for the whole procedure of setting-up the scientific and technical programme of the conference. The MC selects also the contributions from conference proceedings which will be recommended to editors of Water Science and Technology and Water Practice and Technology journals for further peer review selection procedure.

The Local Organising Committee (LOC) is based on volunteers from Institute of Chemical Technology, Prague, Czech Water Association and on representatives of companies involved in the Czech water industry. The LOC closely cooperates with the local conference professional organiser, the C-IN company.



SCOPE OF THE CONFERENCE

All the conferences on Large Wastewater Treatment Plants (LWWTP) organised since 1971 have been dedicated to the cost-effective solution of practical problems in the design and operation of large wastewater treatment plants. They have been successfully conducted in the form of workshops where an equal amount of time was allotted for presenting the papers and for discussing them together with the issues particularly interesting for large works. The workshop character created in the past a unique and open atmosphere in which experts from all parts of the globe started to become a family. Although times have changed since 1971, we will continue with this tradition. Apart from the main lecture stream several small workshops for the conference participants will be prepared on current topics.

The lecture programme is accompanied by a poster session. The poster session enables to enlarge the number of conference contributions and is always a suitable forum for the discussion and idea exchange of the conference participants with poster authors. To encourage young experts to participate in the poster session, the management committee will select and name the best poster paper of the upcoming conference. The winner of this contest will be announced at the conference closing ceremony.

The conference will start traditionally on Sunday evening by the registration and "Meet and Greet". During the conference evenings we are planning some social activities like "poster party" with the discussion around the exhibited posters or conference gala dinner. The lectures and workshop are scheduled for three days. The fourth day there will be two optional technical tours.



CONFERENCE TOPICS

The conference will focus on all aspects of the design and operation of large wastewater treatment plants including the economical issues. It will bring together mainly operators, designers and consultants on one side with researchers, university teachers, ICA specialists, developers, technology and equipment providers on the other side. Special emphasis will be given to the active participation of young professionals. The conference will provide a forum for idea and opinion exchange and for sharing practical experience.

To find proper solutions for problems related to design, operation and economics of large wastewater treatment plants is a task of steadily growing importance. While at the beginning of the 20th century only less than 15 % of the total population on the globe lived in the towns, in the middle of the century it was already 29 % and in 1985 about 41 %, the estimates for 2020 predict about two thirds of all people living in the towns. Therefore, the wastewater treatment in large wastewater treatment plants is an inseparable part of water management of cities of the future. The effluent from LWWTP is more and more considered to be a source of water rather than a waste discharged just to the receiving waters. Our traditional conference must also reflect this change in the paradigm in the topics discussed in Prague:

1. Design

- wastewater treatment in large cities and sensitive catchment areas
- selection of cost-effective solutions
- appropriate technologies for developing countries
- successful case studies

2. Operation

- nutrient removal
- control of activated sludge separation properties
- instrumentation, control & automation
- management, education and training

3. Sludge handling and its effect on wastewater treatment

- modern approaches to wastewater sludge processing
- effect of reject water on main wastewater treatment line
- optimised use of energy from sludge

4. Cost and energy optimization

- construction and investment
- cost and energy effective operation

5. Innovative wastewater treatment technologies

- mixing and aeration systems
- activated sludge separation
- use of membranes in wastewater treatment
- removal of specific organic compounds (endocrine disruptors, etc.)

6. Large WWTP in “Cities of the Future”

- LWWTP as the condition of the future growth of cities
- effluent from LWWTP as a source of water for municipal use (street cleaning, park watering, water in municipal architecture, water for industry, possible use for the enhancement of ground and surface water resources used for preparation of drinking water)



PARALEL WORKSHOPS

i) History of sanitation and wastewater treatment in large towns

This workshop will be held in cooperation with the European Water Association and its European Technical and Scientific Committee.

ii) Microbiology of activated sludge bulking and foaming

This workshop will be organised together with the Institute of Chemical Technology, Prague. The workshop will be targeted mainly at young water professionals from both practice and universities. There is an intention to apply for some funds from The Visegrad Four.

iii) Demonstration of projects of really large wastewater treatment plants in Russia, South-East Asia and Latin America

For this workshop we would like to invite speakers demonstrating the projects of the biggest plants in the world.

TECHNICAL TOURS

Two post-conference tours are planned for Thursday, September 10, 2015:

i) Historical WWTP of the City of Prague – back to 1906

The historical plant is in a walking distance from the conference hotel. The duration about 4 hours. The visit will be finished by a light lunch in the premises of the old plant. A small extra fee will be charged to the participants. More at: <http://www.staracistirna.cz/ops/en/>

ii) WWTP Pilsen

The visit to the most modern large WWTP in the Czech Republic. The trip by coach (about one hour drive from Prague); after the visit to the plant a lunch in the famous Pilsner Urquell Brewery is planned with possible tour through the brewery. The trip will last for about 8 hours and an extra fee will be charged to the participants. More at: <http://www.prazdrojvisit.cz/en/restaurants/> and <http://www.vodarna.cz/res/data/131/014324.pdf>

CALL FOR ABSTRACTS

You are invited to submit an extended abstract on any of the conference subjects of interest. The selection of papers for oral presentation will be done by the management committee on the basis of evaluation and recommendation of the SPC members. The whole selection procedure will be based on the extended abstract of your contribution. Because of limited space for oral presentations, the papers of still good and acceptable quality will be automatically accepted for poster presentation. The policy of the conference organisers is to reject only really poor papers or papers not related to the conference topics. You can also submit your contribution directly for poster presentation only.

Guidelines

The maximum length of extended abstracts is 4 pages of A4 format (2 pages of text and 2 of attachments). The formal arrangement of your abstract (both for oral and poster presentation) should strictly follow the guidelines for authors that are available at: www.lwwtp2015.org

The abstract which fail to comply with these guidelines will be rejected from further evaluation. The abstract should be submitted on-line via the online submission form.

Deadline for the submission is February 15, 2015. The successful authors will be notified about the acceptance of their manuscript for oral or poster presentation by April 15, 2015.

After the evaluation, selected authors will be asked to provide full papers for their contribution. The maximum length of full papers for oral presentation is 8 pages of A4 format and 4 pages of A4 format for poster presentations. In case of necessity all authors will be asked to adapt their paper according to remarks or recommendations by SPC.

The final deadline for adapted full papers is August 1, 2015.

Conference proceedings and Water Science and Technology / Water Practice and Technology publication

All accepted oral presentations (full papers, 8 pages A4) and full papers of accepted poster presentations (4 pages A4) will be printed in conference proceedings. Proceedings will be handed out to the participants of the conference at their registration. After the conference the editors of a particular issue of Water Science and Technology or Water Practice and Technology journal will make the final selection of best full papers and poster full papers for publication in this IWA journal. As the page limit for each WST/WPT issue is strictly limited, only papers with the highest scientific and technical content will be selected.



IMPORTANT DATES

17

October, 2014

Registration
and abstract submission
opening

15

February, 2015

Extended
abstract submission
deadline

31

March, 2015

Extended
abstract evaluation
deadline

15

April, 2015

Notification
of authors

22

April, 2015

Author's acceptance
deadline

15

May, 2015

Programme
published

31

May, 2015

Early registration
deadline

1

June, 2015

Full papers
submission opened

1

August, 2015

Full papers
submission deadline

GENERAL INFORMATION

Committees

Scientific and Programme Committee

Jiří Wanner, Czech Republic (Chair)
Norbert Jardin, Germany (Secretary)

Harro Bode, Germany
Glen Daigger, USA
George Ekama, South Africa
Wolfgang Günther, Germany
Ulf Jeppsson, Sweden
Jose Jimenez, USA
Andrea Jobbágy, Hungary
Harald Kainz, Austria
Jürg Keller, Australia
Jörg Krampe, Austria
Helmut Kroiss, Austria
Jacek Makinia, Poland
Norbert Matsché, Austria
Fangang Meng, China
Korneliusz Miksch, Poland
Sudhir Murthy, USA
Jan Oleszkiewicz, Canada
Hee-Deung Park, South Korea
Miklos Patziger, Hungary
Helle van der Roest, The Netherlands
Karl-Heinz Rosenwinkel, Germany
Hansruedi Siegrist, Switzerland
László Somlyódy, Hungary
Fabio Tatano, Italy
Zhiguo Yuan, Australia

(This committee is still open for members from Russia, South-East Asia and Latin America.)

Management Committee

Jiří Wanner, Czech Republic (Chair)
Norbert Jardin, Germany (Secretary)

Andrea Jobbágy, Hungary
Jörg Krampe, Austria
Helmut Kroiss, Austria
Miklos Patziger, Hungary
Iveta Růžicková, Czech Republic
Martin Srb, Czech Republic

Local Organising Committee

Iveta Růžicková, ICT Prague (Chair)
Lucie Chovancová, ICT Prague
Iva Johanidesová, ICT Prague
Pavel Kavka, Ondeo
Miroslav Kos, Sweco Hydroprojekt
Jiří Paul, Energie AG Bohemia
Vojtěch Pospíšil, ICT Prague
Bohdan Soukup, Veolia
Martin Srb, Veolia
Jiří Wanner, ICT Prague

REGISTRATION

Registration fees:

	EARLY/HIGH INCOME COUNTRIES (until May 31, 2015)	EARLY/LOW INCOME COUNTRIES (until May 31, 2015)	LATE/HIGH INCOME COUNTRIES	LATE/LOW INCOME COUNTRIES
IWA NONMEMBER	580	460	660	520
MEMBER	480	360	560	420
YWP MEMBER	210	160	280	240
ACCOMPANYING P.	190	140	240	190

ON-LINE REGISTRATION WILL BE OPENED ON FRIDAY OCTOBER 3, 2014

Participants have the opportunity to pre-register and take advantage of the Early rate registration fees until May 31, 2015. Online Registration will be open at www.lwwtp2015.org. Please note that on-line registration is the only possible way.

Delegate registration fee includes:

- Admission to the scientific sessions, exhibition, workshops and poster sessions
- Admission to the welcome reception
- Conference bag – book of proceedings, final programme brochure
- Name bag, certificate of attendance
- Coffee-breaks and lunches

IWA member rates

Discounted Registration is only applicable to current, paid IWA individual members and employees of IWA corporate members.

If you wish to apply for membership and receive registration discount please visit

<http://www.iwahq.org/2n/membership/membership.html>

Membership Type	HIGH INCOME COUNTRIES			LOW INCOME COUNTRIES		
	£	\$	€	£	\$	€
Individual (1yr - 2014)	75	125	99	35	65	50
Individual (3yr - 2014-2016)	225	375	295	105	195	150
*Student/Retired (1yr - 2014)	35	65	49	25	45	35
*Student/Retired (3yr - 2014-2016)	105	195	149	75	135	105

Language

English will be the official language of the conference. No translation service will be provided.

Accommodation

Rooms at special Conference rates are being held in hotels of a different categories. A number of hotels have been pre-booked for the Conference. Rooms will be allocated on a first come first served basis. For further information please contact the Conference Secretariat or check the official Conference website.

Insurance

The Conference organisers cannot accept any liability for personal injuries sustained or loss or damages of property belonging to Conference participants and their accompanying persons, either during or as a result of the Conference. Please check validity of your own insurance.

Invitation letters

The organisers will be pleased to send a letter of invitation to any of registered participants up on request, once the registration fee is cover in full. It is to be understood that such invitation is intended to help you to raise travel funds or obtain a visa. It is not a commitment on the part of the Conference to provide any financial support. You may request such a letter from the Conference Secretariat.



ABOUT PRAGUE

Prague, the capital of the Czech Republic, with more than 1.2 million inhabitants is rich in its beauty and in its unique history since ancient times. For over one thousand years, Prague has been the seat of kings, emperors and presidents. The flavour and beauty of the town are given not only by its location, but also by its unique collection of the artistic monuments from various ages, as well as by its modern life and progressive development. Prague, the centre of industrial, cultural and scientific life, is known for its famous cultural events. The participation at the conference will offer you an opportunity to reveal the real beauty of the town.

Prague is also interesting by its rich history of science and technology. The outstanding personalities are represented, for example, by Johannes Kepler, whose stay in Prague (1600 – 1612) resulted in the discovery of the famous laws of planetary motion, and Christian Doppler – professor of mathematics at Prague Technical University (1835 – 1847), who formulated his well known principle in Prague. Further, Ernst Mach – appointed professor of experimental physics at Prague University in 1867, who spent nearly 30 years in Prague – contributed to the development of several parts of physics. Albert Einstein was without any doubts the most famous physicist who worked in Prague (1911 – 1912). Not to forget chemistry, Jaroslav Heyrovský developed here the method and instrumentation of polarography (Nobel Prize 1957) and Otto Wichterle invented plastic gel eye lenses in 1967.

Prague was one of the first large towns on the European continent equipped with efficient sewerage system with wastewater treatment plant. The system was constructed in the last decade of the 19th century and the wastewater treatment plant was commissioned in 1906. Famous English engineer Sir William H. Lindley, who designed either alone or with his father drinking water supply and sewerage systems for many other European towns, made the design and supervised the constructions works.

In 1953 Prof. Madera, who became later one of the founding fathers of IAWPR (today's IWA), established the Department of Water Technology and Environmental Engineering at the Prague Institute of Chemical Technology. The Department has gained an international reputation especially in the field of activated sludge bulking and foaming control and in the research of activated sludge population dynamics (kinetic and metabolic selection). The Czech Water Association was established in 1993 as the organisation of leading professionals and companies in the field of water quality control, drinking water supply, storm and wastewater collection, treatment and sludge handling.



CONFERENCE VENUE DIPLOMAT HOTEL **** PRAGUE



Source: www.google.cz/maps

The conference will take place in the congress hall and in other in-house facilities of the Diplomat Hotel Prague.

The 4-star Diplomat Hotel is located in Prague's quiet diplomatic quarter, not far from the historic city centre. The 398 rooms and the Hotel conference centre help to make the Hotel one of the most popular venues for conferences in the Golden City. Breathtaking views over the rooftops of Prague are a special luxury of the Diplomat Suite. From the 9th floor wellness area with club atmosphere, even Prague Castle appears near enough to touch.

The culinary spectrum is varied and diverse. The restaurants Loreta and CD Restaurant offer national and international cuisine with an emphasis on seasonal and regional products. The Japanese restaurant Katsura serves the best sushi in Prague. The Hotel Café Klimt is famous for its special coffees as well as its sweet and savoury delicacies.

Extra services such as a business centre, a car rental, a hairdresser and a beauty studio add to the convenience and comfort of the hotel. The concierge will gladly organise airport transfers or sightseeing tours, book tickets for cultural and sports events, or arrange babysitting services for you.



Source: www.diplomathotel-prague.com

Diplomat Hotel Prague

Evropská 15
160 41 Prague 6
Czech Republic



LOCAL ORGANISERS & CONTACT

The Department of Water Technology and Environmental Engineering
of the Prague Institute of Chemical Technology
The Czech Water Association



Scientific and Technical Programme

Prof. Jiří Wanner, Ph.D., D.Sc. (Conference chairman)

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Department of Water Technology and Environmental Engineering
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Conference Secretariat

(Organisational matters and logistics, Registration, Accommodation,
Exhibition ...)



C-IN

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Sponsoring and Exhibition

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