

# young waters run deep

4th - 5th  
September  
2024  
FCH BUT  
Brno

4th edition  
Conference programme



The conference "Young waters run deep" is a biannual conference organized by young water professionals for young engineers and university students. In the context of water conferences, it is a **completely unique event** where the main focus is on the integration of **students and recent graduates** into the water sector.

## Organizers



## Záštita



*The event is held under the auspices of the Mayor of Brno, JUDr. Markéta Vaňková.*

## Organizing Committee

Ing. Denisa Čadková  
H<sub>2</sub>Ospodař!

Ing. Filip Harciník  
Severočeské vodovody a kanalizace, a.s.

Mgr. Martina Repková, Ph.D.  
FCH VUT v Brně

Ing. Nikola Salová  
Pražské vodovody a kanalizace, a.s.

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FJFI ČVUT v Praze

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Ing. Anežka Žižková, MBA  
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## Programme Committee

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Ing. Ondřej Doležal  
SEWACO s.r.o.

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Ing. Jindřich Procházka, Ph.D.  
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Ing. Radka Rosenbergová  
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Ing. Petra Vachová  
Veolia Australia and New Zealand

Web - [4th edition Young waters run deep](http://4th.edition.Young.waters.run.deep)  
[Young Water Professionals Czech Republic \(ywp.cz\)](http://YoungWaterProfessionalsCzechRepublic(ywp.cz))

Contacts - organizational information: [info@ywp.cz](mailto:info@ywp.cz)

# Conference programme - day 1

08:00 – 09:00 **Registration**

09:00 – 09:15 **Opening**

- Filip Harciník (YWP CZ), Jiří Paul (CzWA), Vilém Žák (SOVAK ČR)

**1st section**  
09:15 – 10:45

**Water Hydepark**

09:15 – 09:35 **LK - trendsetter in the innovative approach of the Czech water management**  
- Kincl O., Kincl J. (LK Pumpservice)

09:35 – 09:55 **Young Water Professionals Czech Republic and its activities**  
- YWP CZ

09:55 – 10:15 **Young Water Professionals Kosovo and its activities**  
- YWP Kosovo

10:15 – 10:30 **Treatment of Wastewater by Visible-light Photocatalysts based on Graphitic Carbon Nitride and Low-temperature Plasma Generated by Multi-hollow Dielectric Barrier Discharge**  
- Zažímal F. (Masarykova univerzita)

10:30 – 10:45 **Miscanthus x giganteus biochar: Effective pharmaceutical adsorbent from model and hospital wastewater**  
- Burdová H. (FŽP UJEP v Ústí n. L.)

10:45 – 11:15

Coffee break

**2nd section**  
11:15 – 12:45

**Round Table Discussion: Sustainability and future of water sector**

11:15 – 12:45 **Round Table Discussion** (moderated by Martin Srb, CzWA)

12:45 – 14:15

Lunch

**3rd section**  
14:15 – 15:20

**Digitization**

14:15 – 14:35 **Innovation in the cleaning industry or the path to modern and digital solutions**  
- Procházková J. (Xylem)

14:35 – 14:50 **The influence of input rain gauge data on the results of long-term drainage simulation**  
- Novák J. (DHI)

14:50 – 15:05 **Integrated simulation model of a pumping station for virtual commissioning**  
- Krňávek O. (SEWACO)

15:05 – 15:20 **Data processing and analysis for the preparation of a digital model of the Pardubice WWTP**  
- Martínková M. (DHI)

15:20 – 16:10

Poster section with coffee break

**4th section**  
16:10 – 17:15

**Micropollutants**

16:10 – 16:30 **Legislative challenges for a new generation of water managers**  
- Rosenbergová R. (Veolia)

16:30 – 16:45 **Quaternary wastewater treatment using coagulation and ozonation**  
- Jurík J. (STU Bratislava)

16:45 – 17:00 **Modernization of the hospital WWTP or How to capture micropollutants directly at the source of pollution**  
- Kvaček R. (PVK)

17:00 – 17:15 **Removal of PFAS during drinking water treatment – a pilot laboratory experiment**  
- Mečíř F. (FAST VUT v Brně)

17:30 – 18:30

Hike and run with YWP CZ

19:30 – 22:00

Conference dinner

<b>1st section</b> <b>09:00 – 10:20</b>	<b>Water Hydepark</b>
09:00 – 09:20	<b>Current research and development projects</b> - <i>Envipur</i>
09:20 – 09:35	<b>The Two Faces of Small Water Systems - Notes from the WSP</b> - <i>Sochor J. (FTOP VŠCHT v Praze)</i>
09:35 – 09:50	<b>Magnesium in drinking water - importance and possibilities of remineralization</b> - <i>Kvaček R. (PVK)</i>
09:50 – 10:05	<b>Selection of a suitable co-substrate for anaerobic co-fermentation with sewage sludge</b> - <i>Stránský D. (FTOP VŠCHT v Praze)</i>
10:05 – 10:20	<b>The use of biochar as an additional filter material in the technology of wetlands</b> - <i>Lukáč T. (STU Bratislava)</i>
10:20 – 10:40	Coffee break
<b>2nd section</b> <b>10:40 – 11:45</b>	<b>Revitalization</b>
10:40 – 11:00	<b>Water management project from study to service</b> - <i>Unčovský O. (ASIO)</i>
11:00 – 11:15	<b>Improvement of the water management balance in the Velký Bolevecký pond in Pilsen</b> - <i>Gregar M. (Město Plzeň)</i>
11:15 – 11:30	<b>Water treatment plant for replenishment of the Velké Bolevecký pond and its specifics</b> - <i>Hnojna K. (Envi-pur)</i>
11:30 – 11:45	<b>Revitalization of a blind shoulder on the territory of a European important location</b> - <i>Winkler S. (Povodí Labe)</i>
11:45 – 12:00	<b>Closing</b> - <i>YWP CZ</i>
12:00 – 12:30	snack and transfer to the tours
12:30	<b>Tours</b>

We reserve the right to make changes to the programme.

## Posters

- Implementation of Blue-Green Infrastructure Elements into a Mathematical Model** - *Haška A. (VUT v Brně)*
- Removal of Benzophenone-8 from Aqueous Matrix Using Thermally Activated Persulfate**  
- *Kadlecová A. (VŠCHT v Praze)*
- Ammonium and Phosphorus under 1 mg/l? No Problem for Aerobic Granular Sludge Technology**  
- *Majčínová M. (ASIO TECH)*
- Raw Materials Separation from Plastic Recycling WWTP Sludge and Their Further Use** - *Pavlík J. (ASIO TECH)*
- Reconstruction of the Historical Surface at the Fláje Waterworks Site Using Geoinformatics Methods**  
- *Soukup O.*
- Analysis of Pollution in the Sediments of Historical Channels of the Bílina River** - *Suková N. (UJEP v Ústí n. L.)*
- Methods of Activation and Modification of Biochar to Improve the Efficiency of Pharmaceutical Removal from Aqueous Solutions by Adsorption** - *Tulipánová A. (VUT v Brně)*
- Elimination of Phosphorus in Surface Waters Using Solid Sorbents** - *Vokurková K. (VŠCHT v Praze)*



## Award for the best presentation and the best poster

As part of the conference, awards will be given for the best-rated presentation and poster presentation. Conference participants will contribute to the evaluation via **the BestTalk platform**. The awards are supported by the general partner of the conference **LK Pumpservice s.r.o.**

## Hike and run with YWP CZ

Before the conference dinner, there will be a hike and run with the YWP CZ. Meeting place will be at the tram stop Technologický park at 5:30 p.m.

### Hike to viewpoint **Střelecký kopec**:

distance: cca 3 km



### Run:

distance: cca 4 km



## Informal conference dinner

Conference dinner will take place at the Faculty of Chemistry BUT Brno from 19:30 to 22:00. The conference dinner is a great opportunity to meet with the authors of contributions and representatives of partners and to network over good food and drink.

## Tours

As part of the conference, three interesting tours are prepared for the participants on Thursday:

### **WWTP Bílovice nad Svitavou** - capacity: 20 people

- the mechanical-biological wastewater treatment plant was put into operation in 2001 and in 2012 underwent intensification from 4,860 EO to 7,750 EO

### **Tour of the laboratory of environmental technologies and neutralization station FCH BUT**

- capacity: 10 people

- the laboratory of environmental technologies is intended for both teaching and research activities of the Institute of Chemistry and Technology of Environmental Protection FCH BUT
- the FCH BUT neutralization station is intended for cleaning raw wastewater from individual teaching areas (especially laboratories) of the faculty

### **Žlutý kopec Water tanks** - capacity: 30 people, guided tour, entrance fee

- the three reservoirs were built between the 1860s and the second decade of the 20th century and were decommissioned in March 1997

Tours will take place between 12:30 and 16:00. Organizational instructions for tours will be sent to registered participants before the start of the conference.

## Venue

The venue of the conference is the Faculty of Chemistry BUT in Brno.  
Address: FCH VUT v Brně, Purkyňova 464, 612 00, Brno

Transport:

- by car: parking spaces at the Faculty of Chemistry BUT in Brno are accessible from Hudcova Street or Purkyňova Street
- by public transport: tram stop Technologický park or tram stop Hudcova and approx. 10 min walk

## Accommodation

Please note that the conference organizer does not provide or pre-book accommodation for conference participants. It is necessary to arrange accommodation on your own. The conference organizer recommends using [Hotel Palacký Brno](#) and [Hotel Vista](#) located near the conference venue for accommodation.

## Conference fee\*

**Full fee:** 3 025 Kč (2 500 Kč + 525 Kč 21% VAT) / 121 EUR (100 EUR + 21 EUR 21% VAT)

**CzWA member:** 2 420 Kč (2 000 Kč + 420 Kč 21% VAT) / 97 EUR (80 EUR + 17 EUR 21% VAT)

**CzWA member-student - YWP CZ non-member:** 1 815 Kč (1 500 Kč + 315 Kč 21% DPH) / 73 EUR (60 EUR + 13 EUR 21% VAT)

**YWP CZ member - non-student:** 1 210 Kč (1 000 Kč + 210 Kč 21% DPH) / 49 EUR (40 EUR + 9 EUR 21% VAT)

**YWP CZ member - student:** 605 Kč (500 Kč + 105 Kč 21% DPH) / 25 EUR (20 EUR + 5 EUR 21% VAT)

*Only a full-time student without a full-time job is considered as a student.*

Fee includes: entry to the conference program, lunches and coffee breaks during the first two days, entry to informal conference dinner.

Questions regarding the payment of conference fees need to be sent to [czwa@czwa.cz](mailto:czwa@czwa.cz)

\*The fees posted above are generally valid. However, we understand that in certain cases it is not possible to pay these fees in full for various reasons. If you cannot afford to pay this fee in full, write to our contact e-mail and we will try to solve this situation individually, for example by reducing or canceling the conference fee.

## Conference registration

Registration for the conference is possible electronically by filling out the [registration form](#), or you can use the printed application form (see below) and send the completed and scanned form to [info@ywp.cz](mailto:info@ywp.cz).

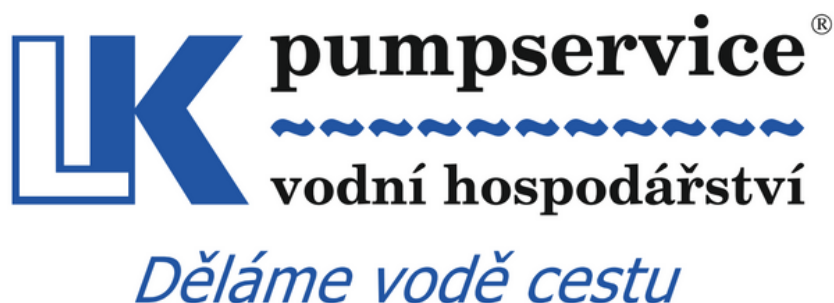
The deadline for registering for the conference is August 23rd, 2024.



# Conference sponsors

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## General sponsor



## Main sponsors



## Sponsors



Závazná přihláška na konferenci

## **Mladá voda břehy mele**

4. - 5. září 2024, Brno

Výše poplatku:

Plný	Člen CzWA	Člen CzWA student - nečlen YWP CZ	Člen YWP CZ - nestudent	Člen YWP CZ - student
3 025 Kč	2 420 Kč	1 815 Kč	1 210 Kč	605 Kč

Přihláška účastníka:

	Jméno, příjmení, titul	Email účastníka	Exkurze	Stravovací omezení	Částka za osobu
1					
2					
3					
4					

Vložené celkem: \_\_\_\_\_

**Potvrzujeme, že jsme uhradili účastnické poplatky**

v celkové výši \_\_\_\_\_ dne: \_\_\_\_\_ z čísla účtu plátce: \_\_\_\_\_

na účet organizátora: **115-410290207/0100, SWIFT: KOMBCZPPXXX, IBAN:CZ9001000001150410290207**  
variabilní symbol: členské číslo nebo IČ společnosti, specifický symbol: 55040924 (uvádějte vždy)

**Údaje do daňového dokladu:**

**jednotlivě za účastníky/společně za organizaci\*** (\*nehodící se škrtněte)

<b>Firma – adresa sídla (v případě samoplátce uvedte adresu trvalého bydliště):</b>	
<b>Tel.:</b>	<b>E-mail:</b>
<b>IČ:</b>	<b>DIČ:</b>

**Ochrana osobních údajů:** Při zpracování osobních údajů dbá pořadatel na dodržování nařízení Evropského parlamentu a Rady (EU) 2016/679 ("GDPR") a dále zákona č.101/2000 Sb., o ochraně osobních údajů, ve znění pozdějších předpisů. Upozorňujeme tímto účastníky, že z akce bude pořizována fotodokumentace za účelem propagace akce na webových stránkách <http://www.czwa.cz/> a <https://ywp.cz>.

**Podpis a razítko organizace:**

**Přihlášku zasílejte na email:**

CzWA service s.r.o., Traťová 574/1, 619 00 Brno  
IČ: 04146212, DIČ: CZ 04146212 tel. +420 737  
508 640, email: [info@ywp.cz](mailto:info@ywp.cz)