



## CONFERENCE PROGRAMME

1-2 October 2026, Velké Bílovice



8:00

### Registration

takes place in the entrance hall of the cultural centre

9:00

### Opening and welcome

Petr Hlavínek, Zdeněk Dufek / Programme Committee, BUT FCE AdMaS

### Water Management in 2025

ZD

Chair: Zdeněk Dufek

9:20

### 25 Years of the Městské vody / Urban Water Conference

Petr Hlavínek / BUT FCE IMWM Brno

9:40

### Ministry of the Environment Priorities in the Water Sector

Jaromír Wasserbauer / Ministry of the Environment of the Czech Republic, Section of Technical Environmental Protection

10:00

### Digital Twins of Water-Supply Reservoirs in the Era of Climate Change - Temperature Regime, Substance Loads and the Effectiveness of Adaptation Measures in Water-Supply Reservoir Catchments

Evžen Zeman, Jana Bernsteinová, Maxim Bernstein, Václav Rára, Petr Fučík, Antonín Zajíček, Pavel Tachecí, Jan Špatka, Petr Jiřinec, Eva Ingeduldová, Petr Štěpánek, Jan Vacek, Miroslav Trnka, Milan Fischer, Adam Vizina, Martin Hanel, Martin Pivokoňský / Global Change Research Institute of the CAS, DHI a.s., T. G. Masaryk Water Research Institute, Czech University of Life Sciences Prague, Institute of Hydrology of the CAS, Research Institute for Soil and Water Conservation

10:20

### Study Assessing the Effect of Ammonium Nitrogen Pollution from the Combined Sewerage System of the Town of Mělník on the Pšovka Watercourse

Jan Kinkor, Radovan Haloun, Tomáš Metelka / AQUA PROCON s.r.o.

10:40

### Efficient Work with a Hydraulic Model, Not Only Thanks to the Integration of Operational and GIS Data

David Kolář, Zdeněk Sviták, Milan Suchánek / DHI a.s.

11:00

### Coffee Break

### Water Management in 2025

PH

Chair: Petr Hlavínek

11:20

### Modern Solutions for Long Pressure Mains: Sewerage of the Mladá Boleslav South Area

Tomáš Žitný, Jan Kratěna, František Mádl, Stanislav Malaník / Vodovody a kanalizace Mladá Boleslav, STERPLAN a.s., EuroArmatury s.r.o.

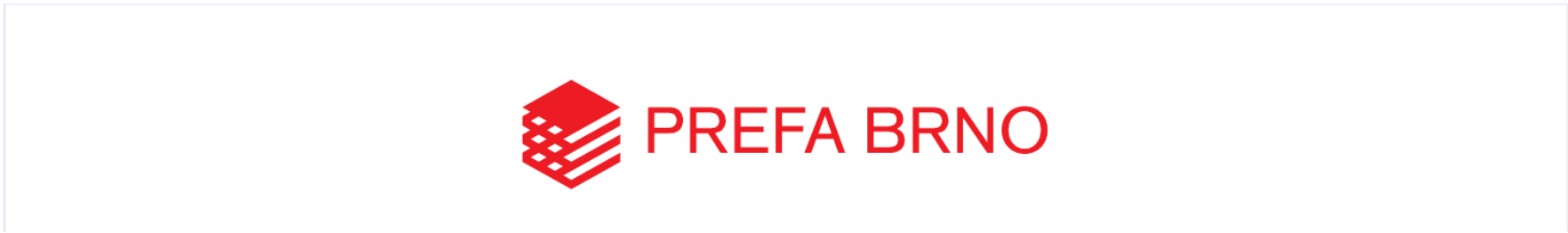
|                                                                                                             |                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11:40                                                                                                       | <b>From Detailed Design Documentation to Implementation Documentation in BIM: What the 3D Model Gave Us in Practice at the Brno-Modřice WWTP - Coordination of Disciplines, Changes and Information Transfer during Implementation Preparation</b><br><i>Lukáš Frýba, Josef Šálek / ARKO TECHNOLOGY, a.s.</i> |
| 12:00                                                                                                       | <b>Valuation of Shares in Water Companies Using the DCF Method</b><br><i>Zdeněk Dufek, Eva Vítková, Lukáš Dřínovský / BUT FCE Brno, STAVEXIS s.r.o.</i>                                                                                                                                                       |
| 12:20                                                                                                       | <b>Runoff from Winter Road Maintenance: Salting versus Infiltration</b><br><i>Richard Kuk / PUDIS a.s.</i>                                                                                                                                                                                                    |
| 12:40                                                                                                       | <b>Mixing Water at the Hodonín Production Plant and the Introduction of Further Environmental Measures at Prefa Brno a.s.</b><br><i>Michal Ševčík / PREFA Brno a.s.</i>                                                                                                                                       |
| 13:00                                                                                                       | <b>Lunch</b>                                                                                                                                                                                                                                                                                                  |
| <b>Sewer Networks, Structures and Materials</b><br><div><div>VH</div><div>Chair: Vladimír Habr</div></div>  |                                                                                                                                                                                                                                                                                                               |
| 14:00                                                                                                       | <b>Low-Temperature HUBER HPS Dryer</b><br><i>Jiří Musil / HUBER CS spol. s r.o.</i>                                                                                                                                                                                                                           |
| 14:15                                                                                                       | <b>Possibilities of Tertiary and Quaternary Wastewater Treatment</b><br><i>Lucie Houdková, Helena Chládková / KUNST spol. s r.o.</i>                                                                                                                                                                          |
| 14:30                                                                                                       | <b>Ductile-Iron Sewerage - A Solution for the Future</b><br><i>Miroslav Pfleger / SAINT-GOBAIN PAM CZ s.r.o.</i>                                                                                                                                                                                              |
| 14:45                                                                                                       | <b>Trenchless Technologies for Utility Networks</b><br><i>Kateřina Vosková / ZEPRIS s.r.o.</i>                                                                                                                                                                                                                |
| 15:00                                                                                                       | <b>Strategic Planning in Water Management: From Operational Data to Investment Decisions</b><br><i>Kateřina Jílková / VODA CZ s.r.o.</i>                                                                                                                                                                      |
| 15:15                                                                                                       | <b>Coffee Break</b>                                                                                                                                                                                                                                                                                           |
| <b>Sewer Networks, Structures and Materials</b><br><div><div>MS</div><div>Chair: Milan Suchánek</div></div> |                                                                                                                                                                                                                                                                                                               |
| 15:45                                                                                                       | <b>Biogenic Sulphate Corrosion of Concrete Structures in Sewer Networks and Possible Protection Methods</b><br><i>Jakub Hejnic, Petr Sýkora, Martin Konečný / PVK a.s., TIBA BETON CZ, s.r.o.</i>                                                                                                             |
| 16:00                                                                                                       | <b>Effective Security of Water Management Facilities and the Use of AI in Water Management</b><br><i>Jiří Holeček / CDC Data</i>                                                                                                                                                                              |
| 16:15                                                                                                       | <b>Stormwater Management in Brno</b><br><i>Vladimír Habr, Radim Vítek / Brněnské vodárny a kanalizace, a.s.</i>                                                                                                                                                                                               |
| 16:30                                                                                                       | <b>Brno, Bauerova II - Water Main Reconstruction, Part I</b><br><i>Michal Úterský, Martin Studený, Jakub Raček / VH atelier s.r.o.</i>                                                                                                                                                                        |

|                                                                                                      |                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16:45                                                                                                | <b>Utilisation of Sewage Sludge from Domestic WWTPs through Composting in Accordance with the Requirements of the Forthcoming Methodological Guideline of the Ministry of the Environment</b><br><i>Tomáš Chorazy, Miloš Rozkošný, Dagmar Juchelková / BUT FCE IMWM Brno, T. G. Masaryk Water Research Institute, VSB</i>                             |
| 19:00                                                                                                | <b>Social Evening with Buffet Refreshments at Lednice Chateau. Music, Tasting of Moravian Wines and a Cultural Programme.</b>                                                                                                                                                                                                                         |
| <div>Sewerage and Wastewater Treatment</div> <div><div>TC</div><div>Chair: Tomáš Chorazy</div></div> |                                                                                                                                                                                                                                                                                                                                                       |
| 14:00                                                                                                | <b>Electroosmotic Sludge Dewatering - Experience from Test Operation</b><br><i>Pavel Mikulášek / VODÁRENSKÁ AKCIOVÁ SPOLEČNOST, a.s., MIVALT s.r.o.</i>                                                                                                                                                                                               |
| 14:15                                                                                                | <b>Machine Learning in the Practice of Small and Medium-Sized WWTPs</b><br><i>Jan Němeček, Jan Hanák, Jan Příkryl / ASIO TECH, spol. s r.o.</i>                                                                                                                                                                                                       |
| 14:30                                                                                                | <b>Phosphorus Removal at WWTPs - A Problem or a "Problem"</b><br><i>Richard Bábiček / Vodovody a kanalizace Hodonín, a.s.</i>                                                                                                                                                                                                                         |
| 14:45                                                                                                | <b>Specifics of Wastewater Management in Sensitive Karst Areas: Centralised and Decentralised Approaches to the Protection of Groundwater and Drinking Water</b><br><i>Jakub Kučera, Karolina Migdał, Jakub Raček, Izabela Piegdoń, Tomáš Macsek, Alice Vagenknechtová, Petr Hlavínek / BUT FCE IMWM Brno, RUT Rzeszow, ALS Czech Republic s.r.o.</i> |
| 15:00                                                                                                | <b>Level of Sanitisation of Sewage Sludge by a Solar Dryer</b><br><i>Jan Ševčík / ZEMSKÝ Rohatec s.r.o.</i>                                                                                                                                                                                                                                           |
| 15:15                                                                                                | <b>Coffee Break</b>                                                                                                                                                                                                                                                                                                                                   |
| <div>Wastewater Treatment</div> <div><div>TM</div><div>Chair: Tomáš Macsek</div></div>               |                                                                                                                                                                                                                                                                                                                                                       |
| 15:45                                                                                                | <b>Occurrence of Pharmaceuticals in the Environment</b><br><i>Alice Bílková, Lucie Vagenknechtová / ALS Czech Republic s.r.o.</i>                                                                                                                                                                                                                     |
| 16:00                                                                                                | <b>Assessment of the Significance of Healthcare Facilities in the Substance Flow of Pharmaceuticals in Wastewater</b><br><i>Tomáš Macsek / BUT FCE IMWM Brno</i>                                                                                                                                                                                      |
| 16:15                                                                                                | <b>Toxicity of Residues and Their Mixtures in Wastewater</b><br><i>Eliška Maršálková / Institute of Botany of the CAS</i>                                                                                                                                                                                                                             |
| 16:30                                                                                                | <b>Technologies for the Decentralised Reduction of Pharmaceutical Residues from Wastewater</b><br><i>Jakub Kučera / BUT FCE IMWM Brno</i>                                                                                                                                                                                                             |
| 16:45                                                                                                | <b>Quaternary Treatment from the Designer's Perspective</b><br><i>Karel Hartig / STERPLAN a.s.</i>                                                                                                                                                                                                                                                    |
| 19:00                                                                                                | <b>Social Evening with Buffet Refreshments at Lednice Chateau. Music, Tasting of Moravian Wines and a Cultural Programme.</b>                                                                                                                                                                                                                         |

|                                                                                                                      |                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9:00                                                                                                                 | <b>Opening of the 2nd Day of the Conference</b>                                                                                                                                                                                                                                                                                               |
| <div>Science, Research</div> <div><div>JR</div><div>Chair: Jakub Raček, Izabela Piegdoń, Karolina Migdał</div></div> |                                                                                                                                                                                                                                                                                                                                               |
| 9:10                                                                                                                 | <b>Engineered Conditioning Solutions</b><br><i>Stefanie Vaghan / Vaughan Company</i>                                                                                                                                                                                                                                                          |
| 9:20                                                                                                                 | <b>Blackout and Crisis Water Supply, Diversification of Water Intakes</b><br><i>Krzysztof Boryczko, Izabela Piegdoń / RUT Rzeszow</i>                                                                                                                                                                                                         |
| 9:40                                                                                                                 | <b>Blue-Green Infrastructure in Austria: Assessing Microbial Quality in Urban Stream Daylighting for Water Reuse</b><br><i>Florian Kretschmer, Helena Galys, Patrick Arthofer / BOKU Wien</i>                                                                                                                                                 |
| 10:00                                                                                                                | <b>From Drinking Water Quality Data to Better Decisions in Water Safety Management</b><br><i>Izabela Piegdoń, Jakub Raček, Barbara Tchórzewska-Cieślak, Krzysztof Boryczko / RUT Rzeszow, BUT FCE IMWM Brno</i>                                                                                                                               |
| 10:20                                                                                                                | <b>Phytoremediation Potential of Vetiveria zizanioides for Boron Removal in Vertical Flow Constructed Wetlands</b><br><i>Karolina Migdał, Pedro Correia, Carlos Ribeiro, Humberto Chaves, Renata Ferreira, Paulina Śliz, Izabela Piegdoń, Jakub Raček, Adelaide Almeida / University of Agriculture in Krakow</i>                             |
| 10:40                                                                                                                | <b>Assessment of the Functioning of Water Distribution Subsystems in Rural Areas in Poland</b><br><i>Tomasz Bergel / University of Agriculture in Krakow</i>                                                                                                                                                                                  |
| 11:00                                                                                                                | <b>Design of Green Processes for Urban Wastewater Treatment</b><br><i>Kiril Lisichkov, Katerina Atkovska, Erhan Mustafa, Ana Naumoska / Univ. Ss. Cyril and Methodius, Skopje</i>                                                                                                                                                             |
| 11:20                                                                                                                | <b>Numerical Assessment of Valve-Induced Water Hammer and Cavitation Risk in Historical Gravity Water-Supply Mains: Towards Safe Manoeuvring Strategies</b><br><i>Pavel Orság, Izabela Piegdoń, Jakub Raček, Kamil Urbanowicz, Stanislav Malaník, Barbara Tchórzewska-Cieślak, Aleš Haška, Petr Hlavínek / BUT FCE IMWM Brno, RUT Rzeszow</i> |
| 11:40                                                                                                                | <b>Vegetation Roofs as a System Solution for Adaptation of an Urban District to Climate Change</b><br><i>Zuzana Vranayova, Daniela Kaposztasova, Marián Vertal / TU Košice</i>                                                                                                                                                                |
| 12:00                                                                                                                | <b>Revitalisation of the City Park in Košice</b><br><i>Martina Zeleňáková et al. / TU Košice</i>                                                                                                                                                                                                                                              |
| 12:20                                                                                                                | <b>The Impact of Green Roofs on the Operation of Sewer Networks</b><br><i>Réka Wittmanová, Samuel Klimík, Andrea Raczková, Štefan Stanko / STU Bratislava</i>                                                                                                                                                                                 |
| 12:40                                                                                                                | <b>Assessment of the Impact of Ballast Water on the Hydraulic Load of a Combined Sewer System</b><br><i>Jaroslav Hrudka, Štefan Stanko, Ivona Škultétyová, Réka Wittmanová / STU Bratislava</i>                                                                                                                                               |
| 13:00                                                                                                                | <b>Sensitivity Analysis of Drainage Design to the Preferences of Decision-Makers</b><br><i>Andrea Racková, Ivona Škultétyová, Jaroslav Hrudka / STU Bratislava</i>                                                                                                                                                                            |
| 13:20                                                                                                                | <b>Lunch</b>                                                                                                                                                                                                                                                                                                                                  |

# CONFERENCE PARTNERS

Main Conference Partner



Conference Partners

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |