



# Initial Bulletin

International Commission on Large Dams

85<sup>th</sup>

July 3–7, 2017, Prague  
Czech Republic

**Annual Meeting  
of International Commission  
on Large Dams**





## Czech National Committee on Large Dams

Thakurova 2077/7, 160 00 Prague 6, Czech Republic  
E-mail: [secretary@czcold.cz](mailto:secretary@czcold.cz)  
[www.czcold.cz](http://www.czcold.cz)

## Meeting Secretariat

**GUARANT International spol. s r.o.**  
Na Pankráci 17, 140 21 Prague 4, Czech Republic  
Tel: +420 284 001 444  
Fax: +420 284 001 448  
E-mail: [icold2017@guarant.cz](mailto:icold2017@guarant.cz)  
[www.icold.2017.cz](http://www.icold.2017.cz)

Photographs of the dams are from the archives of the relevant River Authorities

# Invitation

**Dear colleagues, members of ICOLD and friends of dam engineering and associated disciplines.**

For the first time in its history the ICOLD Annual Meeting will be held in Prague.

On behalf of the Czech National Committee on Large Dams, one of the founding members of ICOLD in the early thirties, let me introduce what will be on the agenda of ICOLD 2017 Annual Meeting, which is to be held in the charming capital of the Czech Republic.

During your visit to the Czech Republic on the occasion of the ICOLD 2017 Annual Meeting you will have an opportunity to attend the technical part of the Annual Meeting as well as to learn more about the history and present time of dams and experience the cultural and social life of our country.

The key event of the technical agenda of the Annual Meeting will be a one day symposium called “Knowledge Based Dam Engineering“. Other important items on the agenda will be the discussions of the Technical Committees, Working Groups, regional clubs and other groups of ICOLD. The venue – Clarion Congress Hotel Prague – and its surroundings will offer a pleasant working environment for all the events held as part of the technical programme of the Annual Meeting.

The traditional technical tours, from which the participants can choose, will be directed to three regions of the Czech Republic. The participants will visit dams and other places of interest in each of these three regions. The tours will include past and present examples of dam engineering and construction in the Czech Republic.

At present World Register of Dams includes 118 structures located in the Czech Republic.

The history of dam construction on the territory of what is now the Czech Republic dates back to the thirteenth century. Eight big reservoirs, which are on the ICOLD list, have survived since Middle Ages (structures built from 1272 to 1590) and are still in operation. Some systems of lakes, particularly in South Bohemia, built in medieval times are now protected natural reserves together with the landscape that surrounds them.

Late in the nineteenth and mainly in the twentieth century modern dams were built with multipurpose reservoirs. In the first period from 1850 to 1940 thirty two dams were built. After WWII seventy eight dams were built from 1943 to 1997, which are in the ICOLD World Register of Dams.

As part of the ICOLD Annual Meeting Prague 2017 we are preparing post study tours for those interested in learning more about other regions of the Czech Republic where there are many cultural and technical sites of interest. The post study tours will lead to five regions of the Czech Republic.

Ladies and Gentlemen, we are looking forward to meeting you at the technical and social events in the contemporary and historic parts of Prague during the warm summer month – in the region with a long tradition of water management which is often referred to as the “Roof of Europe“. We will share our experience with you and we will be interested in and inspired by your achievements in the design, engineering, construction and operation of dams.

We are looking forward to a friendly atmosphere of traditional annual meeting of the ICOLD family. We most cordially invite you to participate in this event.

**Ladislav Satrapa**

*Chairman, Czech National Committee on Large Dams*



## Prague



Prague is the capital and largest city of the Czech Republic. It is the 14<sup>th</sup> largest city in the European Union. Situated in the north-west of the country on the Vltava River, the city is home to about 1.24 million people. The city has a temperate climate, with warm summers and chilly winters.

Prague is a City of a Hundred Spires, a UNESCO monument and one of the most beautiful cities in the world.

During the thousand years of its existence, the city grew from a settlement stretching from Prague Castle in the north to the fort of Vyšehrad in the south, becoming the multicultural capital of a modern European state, the Czech Republic.

Founded during the Romanesque and flourishing by the Gothic, Renaissance and Baroque eras, Prague was not only the capital of the Czech state, but also the seat of two Holy Roman Emperors and thus also the capital of the Holy Roman Empire. It was an important city to the Habsburg Monarchy and its Austro-Hungarian Empire.

Prague is traditionally one of the cultural centres of Europe, hosting many cultural events.

A walk through Prague is like reliving the history of Europe, as well as the evolution of culture brought about by various reformers, artists, rulers and politicians.

The Old Town Hall with the famous Prague Astronomical Clock. The winding lanes of the Jewish Quarter, which you know from the novels of Franz Kafka, steeped in the legend of the Golem.

Cafes enticing you to come and have a seat, boutiques and sight-seeing cruises on the Vltava.

The Gothic Charles Bridge and Church of St. Nicholas in the Lesser Town, the most beautiful Baroque church in Prague.

The Palace Gardens set away from the bustle of the city, Petřín with a lookout tower reminiscent of a small Eiffel Tower and Prague Castle...

Each of Prague's districts has its own characteristic atmosphere and unique charm.

Prague presents itself as a changeable city, which likes to alternate styles: it is romantic and successful, ancient and modern, but above all it is a city that is cosmopolitan through and through, and is used to welcoming foreigners.

Prague is served by Václav Havel Airport, the biggest airport in the Czech Republic and one of the biggest airports in central and eastern Europe.

### Get to know it in person!



# Program of the 2017 Annual Meeting of ICOLD

## Sunday, July 2

- Arrival
- Registration

## Monday, July 3

- Meeting of Technical Committee Chairmen
- YEF Meeting
- Technical Cttees Workshops
- Welcome reception/Exhibition opens

## Tuesday, July 4

- Meeting of Technical Committees
- Regional Clubs
- Exhibition continues
- YEF' Social

## Wednesday, July 5

- Symposium: Knowledge Based Dam Engineering
- Exhibiton ends
- Cultural Event at Rudolfinum

## Thursday, July 6

- Technical Tours

## Friday, July 7

- 85<sup>th</sup> General Assembly
- Technical Cttees Workshops
- Farewell Dinner

## Saturday, July 8

- Departure, post-meeting study tours



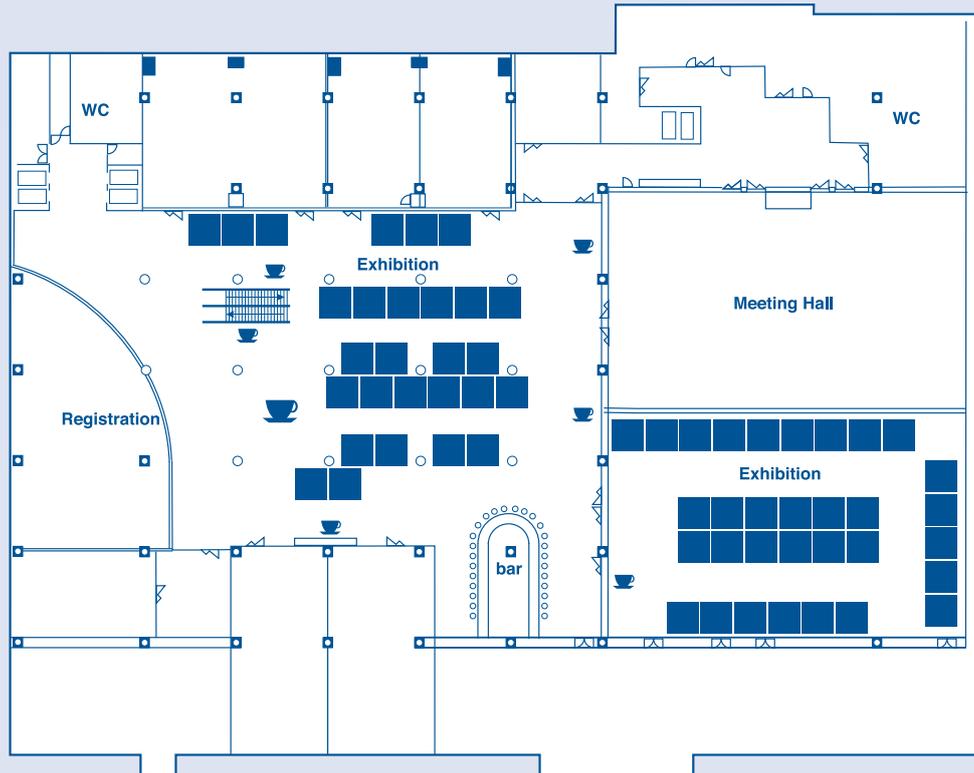


## Exhibition

During the ICOLD Annual Meeting the technical will be held at the Clarion Congress Hotel.

The exhibition will provide the opportunity for companies to showcase achievements in the field of dam constructions and management, to present their achievements and new technologies.

60 booths are available for the exhibitors.



## Clarion Congress Hotel Meeting Venue and Headquarters Hotel

Clarion Congress Hotel Prague is situated in a modern part of Prague – Vysočany, just 15 minutes from the historical centre of Prague. The excellent transport accessibility and perfect service facilities make it popular both with individual visitors and business clients.

Clarion Congress Hotel will serve as the venue for ICOLD Committee Meeting, Symposium, Workshops, Exhibition and General Assembly.

Clarion Congress Hotel Prague offers stylish accommodation in 534 Standard or Executive rooms and 25 deluxe Suites, as well as 8 barrier-free rooms. All rooms provide free internet connection.

The hotel offers unique congress facilities for up to 2,500 persons covering an area of over 4,000 m<sup>2</sup>. All 27 halls and adaptable meeting rooms are equipped with state-of-the-art conference technology designed for all types of events. The main congress hall affords a capacity of almost 2,000 delegates.

Hotel services include nonstop-reception, concierge, internet corner with printer, free Wi-Fi connection in the hotel lobby, room service, Wellness & Fitness and professional catering services.

## Social Programme

On Wednesday evening the participants of the Annual Meeting can attend a concert of classical music performed by the Prague Radio Symphony Orchestra (Symfonický orchestr Českého rozhlasu) at Dvořák Hall of Prague Rudolfinum – a building dedicated to music.

### The Prague Radio Symphony Orchestra (Symfonický orchestr Českého Rozhlasu)



The Prague Radio Symphony Orchestra (SOČR) is one of the leading and oldest Czech orchestras. Its inventive approach to the choice of programme and ever increasing artistic value has helped the orchestra to earn a prestigious position on the Czech classical concert scene. It also receives many invitations to perform in concert halls abroad. Its history dates back to 1926 and it is linked with the first radio broadcasts of the radio station Radiojournal. After 1945 the orchestra was transformed into a big symphony orchestra. From 1985 to 2011 the Orchestra was headed by the conductor Vladimír Válek, who is now its honourable Principal Conductor. His systematic artistic work with the Orchestra has delivered its very high professional standards. Since the 2011–2012 season the post of the Orchestra Artistic Director was taken by Ondřej Lenárd.

The artistic credit of the orchestra is documented by a positive response to their foreign trips both from the audience and the art critics. The orchestra regularly performs around Europe; they also play in Japan, South Korea, China, Taiwan and U.S.

### Rudolfinum Concert Hall

The building of Rudolfinum is one of the most valuable examples of Prague cultural heritage. The building in Neo-Renaissance architecture is located on the embankment of the River Vltava and, since its opening in 1885, it has always been associated with music and the arts. Today the building houses the Czech Philharmonic Orchestra and the Rudolfinum Gallery; there is also a stylish cafe. The grand building of Rudolfinum was built in 1876–1884 and its architects were Josef Zítěk and Josef Schulz. It was designed as a multifunctional centre for arts where exhibitions could be held and concerts performed. Rudolfinum has succeeded in this mission and it still serves this purpose even in the 21<sup>st</sup> Century.





## Technical Tours

### TT1 – Slapy Dam

Konopiště château – Slapy Dam – boat trip



The first part of this tour takes you to the baroque style château Konopiště, which was founded in the manner of French fortresses and is famous for extensive hunting and weapons collections. The principal point of this tour is 67,5m high concrete gravity dam Slapy with 144 MW installed capacity, which is vital part of Vltava dams cascade. The tour will conclude in a boat trip presenting beauties of Vltava river and also other dams as the boat passes through several locks on its way to Prague.

### TT2 – Nechranice Dam

Nechranice Dam – City of Most – Fláje Dam



The tour will take you to the 47,5m high earthfilled dam Nechranice, which was built on the river Ohře between years 1961–1968 and with crest length over 3,2km it is the longest dam in the Czech Republic. The lake of Most and the gothic church of Assumption of the Virgin Mary from 16<sup>th</sup> century, which was transported in one piece on rails to the distance of 841.1 meters in 1975, will be presented on the way to the next dam. The tour ends on a 49,5m high Noetzli type buttress dam Fláje.

### TT3 – Pařížov Dam

Pařížov Dam – Kutná Hora Town – Vrchlice Dam



The tour begins at 31m high masonry dam Pařížov, which in 2013 celebrated 100 years in operation. The dam presents an example of historical structure adaptation to the needs of 21<sup>st</sup> century. The program will continue with sightseeing tour of Kutná Hora town, which has been on the UNESCO list of cultural heritage sights since 1995. Part of the tour is a visit to St. Barbara's Church, originally gothic style double-arched flying buttresses cathedral, and to Sedlec Ossuary, which contains over forty thousands skeletons. The tour ends on a 40,8m high concrete arch dam Vrchlice.

### TT4 – Mšeno Dam

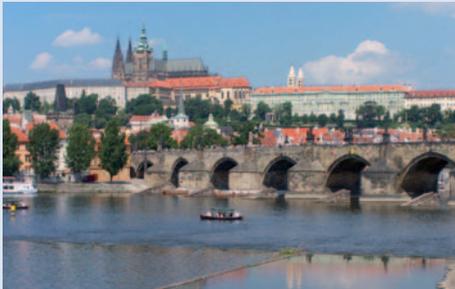
Mšeno Dam – Josefův Důl Dam – Jablonec nad Nisou Town



Mšeno Dam located in a mountain region of northern part of the Czech Republic is a 15,8m high masonry dam built in years 1906–1908 and also starting point of this tour. Mšeno dam together with several other dams in this region were designed according to a concept introduced by Professor Otto Intze. The dam is located within the town Jablonec nad Nisou which is famous for its glass and artificial jewellery production. The tour ends at 44m high asphalt-concrete face earthfill dam Josefův Důl.

## Accompanying Persons Tours

### AP1 – Prague Tour with Boat Trip



This guided tour will introduce the capital of Czech Republic – City of the hundred spires Prague. Your stroll will take you through Downtown, where you can see historical sites and even shopping areas. You will recognize the former Prague's Jewish ghetto, Old Town and New Town. Your lunch will be served on comfortable boat during two hours river cruise.

### AP2 – Český Krumlov – UNESCO



Český Krumlov, a medieval town in South Bohemia, retains its fairytale-like atmosphere to these days and is well-deserving of its inclusion on UNESCO's list of cultural heritage sites. Our guide will lead you through the narrow, winding streets of the historical center, filled with Gothic, Renaissance, and Baroque buildings.

### AP3 – Karlovy Vary and Moser Factory



Karlovy Vary is the best known spa town in the Czech Republic. Its history begins in the 14<sup>th</sup> century, at the time of the reign of Charles IV. Karlovy Vary became famous thanks to the local manufacturing of world renowned Moser crystal, Carlsbad porcelain, the herb liqueur Becherovka or healing powers of the local springs.

### AP4 – Pilsen and Pilsner Urquell Brewery



The Pilsener style beer has been brewed in Plzeň since medieval times and the first written records about the brewing go back to very foundation of this Bohemian city. You will visit the Pilsner Urquell brewery. There you will watch a film and learn about the history and secrets behind making the legendary lager. You will also be guided through the modern bottling plant and the historic brewery cellars, where you have the chance to taste unfiltered and unpasteurized Pilsner Urquell on tap straight from oak lager barrels.



## Study Tours

### ST A – Prague – Olomouc – Ostrava



- Day 1** Departure from Prague, visit of Želivka – Švihov earthfill dam and reservoir, which is the most important source of drinking water for Prague. Next stop is the town of Žďár nad Sázavou, where you will see the pilgrimage church of St. John of Nepomuk, which is on UNESCO list.
- Day 2** Inspection of concrete gravity dam Vír and rockfill dam Boskovice, also the city of Olomouc, and its historical center.
- Day 3** Travel to Dlouhé Stráně dam, which is with 650 MW installed capacity the largest pumped storage project in the Czech Republic. Further, you will go to see an earthfill dam Slezská Harta and the city of Ostrava.
- Day 4** Explore the town Dolní Vítkovice, where Landek Park (Mining Museum) is placed, Šance dam, an earthfill dam with clay core, and Morávka dam the ACFED with geomembrane on the upstream face and return to city of Ostrava.
- Day 5** Travel to the town Rožnov pod Radhoštěm with famous Wallachian Open Air Museum designed by architect Dušan Jurkovič.

### ST B – Prague – Český Krumlov



- Day 1** Departure from Prague, visit of the concrete gravity dam Orlík, chateau Orlík and boat trip at the Orlík reservoir. Transfer to the Český Krumlov town.
- Day 2** A tour continues to the earthfill dam Římov and the medieval town in South Bohemia – Český Krumlov, which is on UNESCO list of cultural heritage sites.
- Day 3** Travel to the town Vyšší Brod with the famous monastery founded in 1259. Next, enjoy the trip to Lipno I. Dam, which is located on the river Vltava. Lipno is the largest reservoir in terms of flooded area in the Czech Republic.
- Day 4** Travel from Český Krumlov to a small town Husinec with historical center and masonry dam Husinec. Further you will travel to town Písek, where the oldest masonry bridge in the Czech Republic and church of Virgin Mary can be seen. An inspection of local hydropower plant is also part of the program.

### ST C – Prague – Telč – Mikulov – Slovakia



- Day 1** Departure from Prague, see the Jordán reservoir – the oldest one in the Czech Republic built in 15<sup>th</sup> century, town Třeboň, pond Rožmberk – the largest pond in the Czech Republic and town Telč.
- Day 2** Visit of the rockfill dam Dalešice, baroque castle Vranov and town Mikulov, with its rich viticulture tradition.
- Day 3** Explore the Lednice-Valtice Complex, which is a cultural-natural landscape complex on UNESCO list of monuments protected as World Heritage Sites since 1996. Next, enjoy the transfer to Slovakia.
- Day 4** Inspection of the Gabčíkovo dam and the capital of Slovakia – Bratislava.
- Day 5** Sightseeing tour around Bratislava and return to Prague.

## ST D – Prague – Pilsen – Karlovy Vary – Teplice



- Day 1** Departure from Prague, tour of the Karlštejn Castle – the most visited castle in the Czech Republic. Inspection of the earthfill dam Hracholusky and transfer to town Pilsen, which is famous for beer production.
- Day 2** Visit of the Pilsner Urquell brewery and concrete gravity dam Březová. After that, travel to spa town Karlovy Vary, where you will explore the Moser glass factory.
- Day 3** The tour continues with the inspection of the rockfill dam Přísečnice and then through the Ore Mountains, where you can enjoy the natural beauties of the peaks, followed by the travel to spa town Teplice.
- Day 4** Enjoy and discover more than 100 years old masonry dam Janov and Noetzi type buttress dam Fláje. The tour then continues to the mining town Most and after that return to Prague.

## ST E – Prague – Harrachov – Hradec Králové



- Day 1** Departure from Prague to Jizera Mountains, where you will see the dams Josefův Důl and Mšeno. Tour around Jablonec nad Nisou town, which is famous for its glass and jewellery production.
- Day 2** Explore the earthfill dam Souš and Harrachov town – one of the most famous ski resorts in the Czech Republic.
- Day 3** Visit of the beautiful masonry dam Les Království and Kuks hospital, which is a famous baroque style spa and military hospital with many sculptures by Matthias Braun and Holy Trinity Church. After that travel to city of Hradec Králové.
- Day 4** Travel to the village Veselý Kopec, known for open-air museum of folk architecture and crafts. Explore the concrete gravity dam Seč and return to Prague.

