

# Final Bulletin

**International Commission on Large Dams** 

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July 3–7, 2017, Prague Czech Republic Annual Meeting of International Commission on Large Dams



Annual Meeting of International Commission on Large Dams

# **Sponsors**

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# Auspice

Auspice over the meeting took over the minister of agriculture Marian Jurečka.



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# **Contact Information**

## **Meeting Secretariat**

GUARANT International spol. s r.o. Na Pankráci 17, 140 21 Prague 4 – for correspondence, 140 00 Prague 4 – for courier services, Czech Republic Tel: +420 284 001 444, fax: +420 284 001 448, e-mail: <u>icold2017@guarant.cz</u>

**Czech National Committee On Large Dams** Thákurova 2077/7, 160 00 Prague 6, Czech Republic E-mail: secretary@czcold.cz, www.czcold.cz



# **Invitation** from the Chairman of the Organizing Committee

#### Dear colleagues, ladies and gentlemen,



On behalf of the Czech National Committee on Large Dams, I would like to cordially invite you to this year's 85<sup>th</sup> Annual Meeting of the International Commission on Large Dams held in Prague in a pleasant, calm and intimate atmosphere of the historic city situated on the picturesque VItava River.

Within the traditional structure of Annual Meetings, we have prepared a rich professional programme for you running from Monday's Workshops to the Friday's ICOLD General Assembly. The sessions of Technical Committees have become a permanent part of the Tuesday agenda. Extended agendas of some Technical Committees fall within Monday's Workshops.

Apart from the sessions of Technical Committees and their Working Groups, the most important professional part of the Annual Meeting is the Wednesday's Symposium with its principal theme of Knowledge Based Dam Engineering chosen for this year. Individual professional themes, including various aspects of the design and operation of dams, have found great favour with the authors. This has been reflected by over 450 registered abstracts from 47 countries. We believe that the new knowledge presented in the form of oral presentations, papers or posters will provide most useful information and inspiration for your work.

Thursday's Technical Tours are directed to four interesting regions of Bohemia. In a comfortable time schedule, you will visit our dams and other places of interest situated in central, north-west and north-east Bohemia. The technical agenda also includes other events, such as e.g. the meeting of ICOLD Regional Clubs, Young Engineers Forum, Technical Workshops, etc.

In the programme prepared for Accompanying Persons for the time of technical meetings, the participants will learn in a pleasant way more about the history and contemporary life in the Czech Republic. The cultural and social events organised during the Annual Meeting will take place in beautiful locations with a rich history and vibrant modern life.

For those interested in deeper knowledge and understanding of the Heart of Europe, we have prepared three routes of Study Tours around the Czech Republic to satisfy both technicians, engineers, and the lovers of history, culture and Czech national specificities.

I am looking forward to meeting you in Prague, to our shared unforgettable experiences and stimuli and inspiration for our future work.

#### Ladislav Satrapa

Chairman, Czech National Committee on Large Dams Chairman, ICOLD 2017 Organizing Committee



# **ICOLD 2017 Organizing Committee**

Chairman: Secretary: Members:

Ladislav Satrapa Milan Zukal Miroslav Brouček, Jindřich Břečka, Jiří Hodák, Dalibor Kratochvíl, Vlastimil Krejčí, Pavel Křivka, Richard Kučera, Jiří Pechar, Jiří Poláček, Pavel Řehák, Jaromír Říha, Jiří Švancara

Annual Meeting of International Commission on Large Dams

# Invitation from the President of ICOLD

#### Dear ICOLD members, dear colleagues, ladies and gentlemen,



On behalf of ICOLD I'm delighted to invite delegates from the National Committees of the International Commission of Large Dams (ICOLD) and specialists and experts working in the field of dams and reservoirs as well as their accompanying persons to the 85<sup>th</sup> Annual Meeting in Prague, Czech Republic, which will take place July 3–7, 2017.

The region of Czech Republic has a very long history in dam development. Since the Middle Age, dams were built to ensure water supply and power. Some of the historical reservoirs are still operated today and have become natural reserves.

The participants of the 85<sup>th</sup> Annual Meeting in Prague will have the chance to discuss in the Symposium on July 5 the topic of "Knowledge based Dam Engineering". Furthermore, current issues will be addressed in several special workshops including the workshops of the ICOLD technical committees. The outcomes of the symposium and the workshops will without doubt contribute to the governing long-term mission of ICOLD which is "Better dams for a better world".

In view of our challenge to further develop this century's dams and reservoirs worldwide, which will be also urgently required to mitigate the negative effects of climate change, I encourage you to come to the 85<sup>th</sup> Annual Meeting in Prague in July 2017, not only for discussing the emerging professional and socio-economic issues and but also to meet the ICOLD family. As ICOLD president I'm convinced that the Czech National Committee on Large Dams will ensure a high quality technical content for the meeting and an attractive social and accompanying person's programme in the beautiful, historical capital of the Czech Republic. The delegates will also have the possibility to discover several wonderful regions with historical and cultural heritage during the study tours.

I'm looking forward to welcome the ICOLD family, old members or newcomers, in Prague!

## Prof. Dr. Anton J. Schleiss

President, International Commission on Large Dams - ICOLD



Annual Meeting of International Commission on Large Dams

# **Invitation** from the Minister of Agriculture of the Czech Republic

#### Dear ladies and gentlemen,



For the first time in its more than eighty-year history, the Annual Meeting of the International Commission on Large Dams (ICOLD) is taking place in the Czech Republic this year.

The Czech Republic, as the hosting country of the forum of dam engineers from all over the world, has a long history of the construction and operation of dams and reservoirs. The historical roots of the design and construction of purpose-built water reservoirs go back to as early as the Middle Ages, the 13<sup>th</sup> century, when the building of major ponds started, and extensive systems of pond reservoirs were successively completed to be in operation till the present day. The historical need for water storage in reservoirs naturally resulted and still results from the fact that practically all water precipitates on the territory of the Czech

Republic flows away to the neighbouring states, so that unless the discharged volumes are retained on condition of abundant rainfall, the water resources may be short of them to overcome drought periods. The skills of dam builders and water managers of that time have been confirmed not only by several hundred years of successful operation of self-contained reservoirs and pond systems, but also by the coexistence of numerous historic ponds with the surrounding environment in regions which are presently conserved as nature reserves and protected nature areas. These facts further stress the importance of water reservoirs and their irreplaceable function in the natural environment, particularly to provide water resources as the sources of water available in the Czech Republic per person are rated as the third lowest in Europe (after Malta and Cyprus).

Modern dam building of the last 120 years has systematically followed the requirements of the developing landscape and inhabitants for satisfying the needs for water. Over one hundred significant multipurpose reservoirs have been built on the territory of the Czech Republic fulfilling, with some reserve, the demands for water supply for the population, industry and agriculture. The reservoirs have also significantly and irreplaceably participated in meeting the needs for energy and have been playing an increasingly important role in the protection of landscape from floods.

The current manifestations of nature worldwide make experts seek answers to questions of how to attain water management stability in all contexts, from meeting the needs of individuals to supporting development strategies of states and supranational units. Seeking solutions will be the subject of the technical activity of water managers and, to some extent, dam engineers as well. The enhancement of the operation and meaningful designs of dams in today's globalized world must be based on the exchange of international experience and on international cooperation.

Since its establishment in 1928 with Czechoslovakia among the founding members, the International Commission on Large Dams has set a perfect example of technical cooperation of experts in the area of the design, construction and operation of dams. On the occasion of the forthcoming 85<sup>th</sup> Annual Meeting of the International Commission on Large Dams, I wish you a lot of determination and enthusiasm for further development of your useful cooperation.

I cordially invite you and your friends and family members to Prague and wish you many stimulating professional and personal experiences.

#### Marian Jurečka Minister of Agriculture





Annual Meeting of International Commission on Large Dams

# **ICOLD** Information

The International Commission on Large Dams (ICOLD) is a non-governmental organization that provides a forum for Exchange of knowledge and experience in dam engineering construction and operational at the international level. ICOLD leads the profession in ensuring that dams are built safely, efficiently, economically, and without detrimental effects for the environment. ICOLD was founded in 1928 and currently has 96 Members Countries.

# **ICOLD Board**

The ICOLD Board consists of the President, the six Vice-Presidents and the Secretary-General. The current Board is composed of the following persons:

#### President

Prof Dr A. Schleiss (Switzerland, 2015-2018)

#### **Vice-Presidents**

J. Zhou (China 2016-2019) M. Lino (France 2016-2019) K.-T. Yum (Korea 2014–2017) L. Lia (Norway 2014–2017) A. Chraibi (Morocco 2015-2018) M. Rogers (USA 2015–2018)

#### **Secretary General**

M. de Vivo (France, 2006-date)

#### **Member Countries**

1.	Albania	26.	Finland
2.	Algeria	27.	Former
3.	Argentina		of Mace
4.	Armenia	28.	France
5.	Australia	29.	Georgia
6.	Austria	30.	German
7.	Belgium	31.	Ghana
8.	Bolivia	32.	Greece
9.	Bosnia-Herzegovina	33.	Guatem
10.	Brazil	34.	Guinea
11.	Bulgaria	35.	Hondura
12.	Burkina Faso	36.	Iceland
13.	Cameroon	37.	India
14.	Canada	38.	Indones
15.	Chile	39.	Iran
16.	China	40.	Iraq
17.	Colombia	41.	Ireland
18.	Congo	42.	Italy
19.	Costa Rica	43.	Ivory Co
20.	Croatia	44.	Japan
21.	Cyprus	45.	Kenya
22.	Czech Republic	46.	Korea
23.	Dominican Republic	47.	Latvia
24.	Egypt	48.	Lebanor
25.	Ethiopia	49.	Lesotho

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- uinea Bissau
- onduras
- eland
- dia
- donesia
- an
- q
- eland
- aly
- ory Coast
- ipan
- enya
- orea
- atvia
- banon
- sotho

- 50. Libya
- 51. Luxemburg
- 52. Madagascar
- 53. Malaysia
- 54. Mali
- 55. Mexico
- 56. Morocco
- 57. Mozambique
- 58. Myanmar
- 59. Nepal
- 60. Netherlands
- 61. New Zealand
- 62. Niger
- 63. Nigeria
- 64. Norway
- 65. Pakistan
- 66. Panama
- 67. Paraguay
- 68. Peru
- 69. Philippines
- 70. Poland
- 71. Portugal
- 72. Romania
- 73. Russia
- 74. Serbia
- 75. Slovakia 76. Slovenia 77. South Africa 78. Spain 79. Sri Lanka 80. Sudan 81. Sweden 82. Switzerland 83. Syria 84. Tajikistan 85. Thailand 86. Tunisia 87. Turkey 88. Ukraine 89. United Kingdom 90. Uruguay 91. USA 92. Uzbekistan 93. Venezuela 94. Vietnam 95. Zambia 96. Zimbabwe



# **Annual Meetings and Congresses**

ICOLD holds an Annual Meeting each year in a different country. The Annual Meeting has a high technical content and attendance is invaluable for capacity building and networking in the international arena. The management of ICOLD is conducted during the General Assembly (previously Executive Meeting). Every three years ICOLD holds a Congress in addition to the normal Annual Meeting activities.

## ICOLD held the following Annual Meetings and Congresses (latter indicated in bold type):

1931 London	1958 New York	1978 Cape Town	1999 Antalya
1932 Paris	1959 Helsinki	1979 New Delhi	2000 Beijing
1933 Stockholm	1960 Tokyo	1980 Rome	2001 Dresden
1934 London	1961 Rome	1981 Stockholm	2002 Iguaçu
1935 The Hague	1962 Moscow	1982 Rio de Janeiro	2003 Montreal
1936 Washington	1963 Cairo	1983 London	2004 Seoul
1937 Paris	1963 Paris	1984 Tokyo	2005 Tehran
1938 Vienna	1964 Edinburgh	1985 Lausanne	2006 Barcelona
1939 Zurich	1965 Lausanne	1986 Jakarta	2007 St. Petersburg
1946 Paris	1966 Rio de Janeiro	1987 Beijing	2008 Sofi a
1947 The Hague	1967 Istanbul	1988 San Francisco	2009 Brasilia
1948 Stockholm	1968 Stavanger	1989 Copenhagen	2010 Hanoi
1949 Brussels	1969 Warsaw	1990 Sydney	2011 Lucerne
1950 London	1970 Montreal	1991 Vienna	2012 Kyoto
1951 New Delhi	1971 Dubrovnik	1992 Granada	2013 Seattle
1952 Chicago	1972 Canberra	1993 Cairo	2014 Bali
1953 Paris	1973 Madrid	1994 Durban	2015 Stavanger
1954 Paris	1974 Athens	1995 Oslo	2016 Johannesburg
1955 Paris	1975 Tehran	1996 Santi ago	
1956 Lisbon	1976 Mexico	1997 Florence	
1957 Istanbul	1977 Salzburg	1998 New Delhi	

# **Technical Committees**

Presently, ICOLD has 26 Technical Committees that address current technical issues related to the development and management of water resources. The listing of the ICOLD Committees is given hereafter. 155 Technical Bulletins have been published and are available for purchase. These publications can be purchased directly on our website <u>www.icold-cigb.org</u>.

## List of Committees:

- A COMPUTATIONAL ASPECTS OF ANALYSIS AND DESIGN OF DAMS (2014-17)
- B SEISMIC ASPECTS OF DAM DESIGN (2013–17)
- C HYDRAULICS FOR DAMS (2013–16)
- D CONCRETE DAMS (2012-18)
- E EMBANKMENT DAMS (2014-17)
- F ENGINEERING ACTIVITIES WITH THE PLANNING PROCESS FOR WATER RESOURCES PROJECTS (2014–17)
- G ENVIRONMENT (2015–17)
- H DAM SAFETY (2015–18)
- I PUBLIC SAFETY AROUND DAMS (2013–16)
- J SEDIMENTATION OF RESERVOIRS (2013-16)
- K INTEGRATED OPERATION OF HYDROPOWER STATIONS AND RESERVOIRS (2015–19)
- L TAILINGS DAMS & WASTE LAGOONS (2014–17)
- M OPERATION, MAINTENANCE AND REHABILITATION OF DAMS (2015-18)
- N PUBLIC AWARENESS AND EDUCATION (2015-18)
- O WORLD REGISTER OF DAMS AND DOCUMENTATION (2014–17)
- P CEMENTED MATERIAL DAMS (2013–17)
- Q DAM SURVEILLANCE (2015–18)
- R MULTIPURPOSE WATER STORAGE (2013–16)
- S FLOOD EVALUATION AND DAM SAFETY (2015-18)
- T PROSPECTIVE AND NEW CHALLENGES FOR DAMS AND RESERVOIRS IN THE 21<sup>st</sup> CENTURY (2013–16) (AD HOC Committee)
- U DAMS AND RIVER BASIN MANAGEMENT (2015-18)
- V HYDROMECHANICAL EQUIPMENT (2013–16)
- W SELECTION OF DAM TYPE (2015–2018) (AD HOC Committee)
- X FINANCIAL AND ADVISORY (2014–15) (AD HOC Committee)
- Y CLIMATE CHANGE (2014–17)
- Z CAPACITY BUILDING AND DAMS (2015–17) (AD HOC Committee)



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# **Meeting Venue**



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-theart 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.

# **ICOLD 2017 Annual Meeting: Programme**

Date	Technical Programm	Technical Programme		Social Programme	
	Morning	Afternoon	Person Programme	am / pm	Evening
Saturday July 1, 2017		ICOLD Board Meeting			
Sunday July 2, 2017	ICOLD Board Meetin 4 Congress Questio			Prague City Tours	
Monday July 3, 2017	<ul> <li>Meeting of Chairmen of Technical Committees &amp; Board</li> <li>Young Engineers' Forum Meeting</li> </ul>	<ul> <li>Technical Exhibition Open</li> <li>Technical Committee Workshops</li> <li>Francophone Countries Meeting</li> </ul>	4 tours each day – see website and detailed programme below	Prague City Tours	Welcome Reception – <i>Clarion Congress</i> <i>Hotel</i>
Tuesday July 4, 2017	Meetings of Technical Committees Technical Exhibition Regional Clubs Meetings				Young Engineers' Social
Wednesday July 5, 2017	Symposium "Knowledge Based Dam Engineering" Technical Exhibition Media Conference				Culture Event – Rudolfinum Concert Hall
Thursday July 6, 2017	Technical Tours				
Friday July 7, 2017	85 <sup>th</sup> ICOLD General 5 Workshops	Assembly			Farewell Dinner – <i>Žofín Palace</i>



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# **Technical Committee Workshops**

Technical Committee Workshops is a new ICOLD innovation and was first implemented at the 82<sup>rd</sup> ICOLD Annual Meeting in Bali in 2014. The objective of these Workshops is to obtain a greater involvement in the important functioning of ICOLD Technical Committees by way of:

- · New Committees meet at the start of their new terms of reference to refine the latter and the work programme;
- Technical Committees which have reached the end of their term meet to discuss the draft Bulletin with a wider audience in order to enhance knowledge transfer.

Delegates are highly encouraged to attend and participate in these important Technical Committee activities and to take them into account when they make their travel plans. The Technical Committee Workshop Programme is given below. The Technical Committee code and the Workshop topic are given.

Time	Technical Committees which will take the Workshops on Monday, July 3, 2017			
	Venue 1 Venue 2 Venue 3			
14:00–16:00	P: Cemented Materials Dams	E: Embankment Dams	H: Dam Safety	
16:00–18:00		A: Computational Aspects of Analysis and Design of Dams	Y: Climate Change	

#### The schedule of Technical Committee meeting is:

- Monday, July 3, 2017 (14:00–18:00): Technical Committee Workshops
- The Committees shown above announced to present a Workshop.
- The detailed program of these Workshops will be provided on the website and in the Pocket Programme.
- Tuesday, July 4, 2017 (9:00–12:30 and 13:30–17:00): Technical Committee Meetings
- All Committees meet on this day in allocated venues which will be indicated in the Pocket Program.

# Symposium: "Knowledge based Dam Engineering"

The Symposium will be held on Wednesday, July 5, 2017. All paper and presentation will be in English and will be made available in electronic form. One of the Symposium venues will be equipped with simultaneous interpretation from English to French. Presentation in this venue could be in French.

#### **Symposium Themes**

- 1. Investigation and application of advanced materials, technologies and solutions in dam engineering
- 2. Enhancements in dam surveillance systems for dam safety and site security
- 3. Uncertainties and risk-informed decision making in dam design, construction and operation
- 4. Balancing technical, socio-economic and environmental aspects of dam engineering
- 5. Advancements in analysis and design within flood protection reservoirs, levees and tailing dams
- 6. Recent improvements and modern applications in reservoir and catchment management
- 7. Design and operational considerations of global climate change, regional droughts and other extreme events
- 8. Assessment of aging dams considering remaining service life and decommissioning
- 9. Hydro-electro-mechanical equipment of dams

#### Important Deadline Submission Dates for Papers

The following remaining important deadline dates have been set:

Full paper submission deadline	February 14, 2017
Review comments to authors	March 31, 2017
Early registration deadline	April 2, 2017
Final notification of paper acceptance	May 1, 2017
Symposium	July 5, 2017

Guidelines and templates for the Papers and Presentations will be on the website.



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# **Technical Tours**

Technical tours will be held on Thursday, July 6. Delegates are kindly asked to meet in the foyer of the Clarion Congress Hotel at least 15 minutes before the departure time. Tours will depart promptly at the stated times. All tours include lunch and refreshments.

# Time schedule (July 6, 2017)

TT1 – Slapy Dam			
A – Slapy Dam (by boat) – Konopiště chateau (by bus)	08:00–19:30		
B – Konopiště chateau (by bus) – Slapy Dam (by boat)	09:00–19:30		
<b>TT2 – Nechranice Dam</b> 08:15–19:00			
TT3 – Pařížov Dam			
A – Pařížov Dam – Vrchlice Dam – Kutná Hora	08:30–18:00		
B – Vrchlice Dam – Kutná Hora – Pařížov Dam	08:30–18:30		
TT4 – Mšeno Dam	08:45–18:30		

## 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 67,5 m high concrete gravity dam Slapy with 144 MW installed capacity hydropower plant located under the safety spillways, which is vital part of Vltava dams cascade. The dam was completed in 1955 and the first filling of the reservoir took only several days due to flood. 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 47,5 m high earthfilled dam Nechranice, which was built on the river Ohře between years 1961–1968 and with crest length over 3,2 km it is the longest dam in the Czech Republic. The tour leads through the tunnel under the intake tower to the machinery room of the hydropower plant. The lake of Most and the gothic church of Assumption of the Virgin Marry 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 49,5 m high Noetzli type buttress dam Fláje.

## TT3 – Pařížov Dam Pařížov Dam – Kutná Hora Town – Vrchlice Dam



The tour begins at 31 m 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 the city centre. The tour ends on a 40,8 m high single-curvature concrete arch dam Vrchlice built between 1966-1970. The dam profile lies near place called Dragons' rock.



## TT4 – Mšeno Dam

Mšeno Dam – Josefův Důl Dam – Sychrov château



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 a part of unique flood control scheme which includes diversion tunnel under the town Jablonec nad Nisou which is famous for its glass and artificial jewellery production. Part of the tour is a neo-gothic style chateau Sychrov known as blossom of France on a Czech soil. The tour ends at 44m high asphalt-concrete face earthfill dam Josefův Důl.

# Workshops

Technical Workshops will be held on Friday 7 July to provide a high technical content during the week of the ICOLD Annual Meeting. Three parallel sessions will be held. The Workshops will be presented by Czech, Regional and International experts and adequate provision will be made for discussion by the attendees.

Time	Friday, July 7, 2017			
	Venue 1 Venue 2 Venue 3			
09:00-12:30	TW1	TW2	TW3	
13:30–17:00	TW4	TW5		

#### TW1 – Survey of International Dam Safety Risk Approaches and Practices

The purpose of this workshop is to provide an opportunity to hear first-hand from country representatives regarding dam safety risk analysis practices and risk approaches currently being used in their country. An overview of these international practices would provide attendees an opportunity to hear from each country representative about their risk practices and evaluate which approaches might work best for their situation.

#### TW2 – Specific Traits of Small Reservoirs and Dams

There are over 20 000 small reservoirs in Czech Republic and the workshop aims at sharing local experience with design and management of these structures in context of advanced technologies of 21<sup>st</sup> century.

#### **TW3 – Climate Change and Resilience**

The World Bank has commissioned a study to develop a set of resilience guidelines for climate change and natural disasters in the hydropower & dams sector. The purpose of these guidelines is to provide practical and workable 'international best practice' guidance for incorporating climate and disaster risk management into hydropower project appraisal, design, construction and operation. The World Bank is partnering with ICOLD to host this workshop to present preliminary findings of the study and to discuss the issues of climate change and resilience in the hydropower and dams sectors.

#### TW4 – Internal Erosion in Dams and their Foundations

Internal erosion is one of the most common causes of failures of water retaining embankment hydraulic structures like dams, levees, etc. The aim of the workshop is to share knowledge and latest findings in the field and also to develop a link between ICOLD community and professionals integrated within the European Working Group on Internal Erosion in Dams and their Foundations.

#### TW5 – Physical and Numerical Modelling – Role and Limits

The workshop focuses on practical examples of recent projects while addressing the important issue of limits and roles of both numerical and physical modelling in modern design and operation of hydraulic structures.



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# **Study Tours**

Delegates and accompanying persons will be able to choose from the post-meeting study tours listed below. The tours have been chosen to provide a balance between technical, cultural and touristic interest.

STA – Prague – Olomouc – Ostrava (4 days)	July 8–11, 2017	1.175 EUR
STB – Prague – Český Krumlov (5 days)	July 8–12, 2017	1.270 EUR
STC – Prague – Harrachov – Hradec Králové (3 days)	July 8–10, 2017	825 EUR

# Study Tour A

Prague – Olomouc – Ostrava



- Day 1 You will start your journey with the departure from Prague. The first stop will be the visit of Želivka Švihov earthfill dam and reservoir, which is the most important source of drinking water for Prague. The next stop is the town of Žďár nad Sázavou, where you will see the pilgrimage church of St. John of Nepomuk, listed on the UNESCOs heritages. You will terminate this day in Olomouc.
- Day 2 You will travel to the dam Dlouhé Stráně. Its 650 MW installed capacity makes it 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, the capital of the Moravian silesian region, located nearby the border with Poland.
- Day 3 Explore the town Dolní Vítkovice, where you will visit the Mining Museum – Landek Park. The dam Šance, an earthfill dam witch clay core, and the dam Morávka the ACFED with geomembrane on the upstream face. At the end of the day you will return to city of Ostrava.
- **Day 4** On the last day of your travels you will see the town Rožnov pod Radhoštěm, founded in the period of the first farming colonization in the 13<sup>th</sup> century. At around 12 o'clock you will go back to Prague.



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**Study Tour B** Prague – Český Krumlov



Day 1 After the departure from Prague you will first visit of the concrete gravity dam Orlík. Next you will take a boat trip on the Orlík reservoir and then visit the château Orlík located above the water. At the end of the day you will finish in the town Český Krumlov.

Day 2 On the second day you will start at the Lipno Dam, which is located on the upper part of the river Vltava. Lipno is the largest reservoir in terms of flooded area in the Czech Republic. It is a very popular recreational area with many facilities for summer and winter sports. Later you will go back to Český Krumlov, a small medieval town in South Bohemia, which is on the UNESCO list of cultural heritage sites. You will visit the castle and its interiors.



Day 3

The third day you will go to the famous southern Moravian city Telč with the monumental 17th century castle. After you will visit Dalešice dam and Dukovany village, where you can see the Nuclear Power Station. At the end of the day you will continue to Valtice.

Day 4 On the last day you will travel from Valtice to Vranov Dam and than you will visit Lednice – Valtice cultural landscape in English neo- gothic style surrounded by beautiful gardens. You will stay overnight in Valtice, a city with a rich history of winning landmarks inscribed in UNESCO World Heritage Sites.

Day 5 On the fifth day you will return to Prague during the morning.

## Study Tour C Praque – Harrachov – Hradec Králové





- Day 1 On the first day you will be able to explore the earthfill dam Souš and Bílá Desná (collapsed in 1916). Later you will go to the town Harrachov - one of the most famous ski resorts in the Czech Republic in the middle of the beautiful nature.
- Day 2 First you will visit Labská and the beautiful masonry dam Les Království, a national technical monument located in the forested valley of the river Elbe. It looks like a castle, and its name was borrowed from the neighboring former royal forest. The former Kuks hospital, now a castle with a church and a crypt built in the beginning of the 17<sup>th</sup> century. At the end of the day you will see in the city of Hradec Králové.

Day 3 On the last day you will visit a small village Veselý Kopec, known for its open-air museum of folk architecture and crafts. At last you will explore the concrete gravity dam Seč. Your journey will finish with the return to Prague.

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# **City Tours of Prague**

City Tour is included in the Registration fee and is offered on the following days. All tours will depart from the Clarion Congress Hotel Prague. Delegates are kindly asked to meet in the foyer of the Clarion Congress Hotel at least 15 minutes before the departure time. The whole tour takes 4 hours (includes 1 hour of transfer to the Castle and back to the Hotel)

Sunday, July 2, 2017		Monday, July 3, 2017	
CT1 – 09:00	CT2 – 09:30	CT1 – 09:00	CT2 – 09:30
CT3 – 10:00	CT4 – 10:30	CT3 – 10:00	CT4 – 10:30
CT5 – 11:00	CT6 – 11:30	CT5 – 11:00	CT6 – 11:30
CT7 – 12:00	CT8 – 12:30	CT7 – 12:00	CT8 – 12:30
CT9 – 13:00	CT10 – 13:30	CT9 – 13:00	CT10 – 13:30

# **CT – City Tour of Prague**

This sightseeing tour will introduce you Prague (UNESCO), the historical and architectural jewel of Central Europe. A tourist guide, available the whole time, will acquaint you with the history of Prague and of its quarters (Old Town, New Town, Lesser Town and the Castle Town) in the comfort of our air-conditioned bus. Then you will continue walking in the courtyards of the Prague Castle, become acquainted with its history and you will visit the inside of its biggest monument, Saint Vitus'Cathedral. After visiting the grounds of Prague Castle, you will descend to the Lesser Town and the Kampa Island. The Charles Bridge, the architectural gem of Central Europe will lead you to the opposite bank of the VItava River, from where you will continue on foot to the Old Town and the Jewish Quarter.



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# **Social Programme**

## **Welcome Reception**

Date:Monday, July 3, 2017Time:20:00Price:free for all registered participants of ICOLD 2017Dress Code:Smart casual

You are warmly welcome to attend the Welcome Reception which will be held at the Clarion Congress Hotel on the Exhibition floor.

# **Cultural Event: Concert of Classical Music**

Date:Wednesday, July 5, 2017Time:20:00Price:free for all registered participants of ICOLD 2017Dress Code:Formal

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



**Rudolfinum Concert Hall** 



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 concerts 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 Ondrej 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.

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 Zítek 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 21st Century.

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# Farewell Dinner at the Žofín Palace

Date:Friday, July 7, 2017Time:20:00Price:Free for all registered participantsDress Code:Semi-formal

#### **General Information**

The neorenaissance Žofín Palace is one of the most notable architectural treasures. Žofín Palace is used for important social events, conferences, concerts and balls. The Large Hall at Žofín regularly hosts the most prominent personalities from business, politics and the arts in this country and abroad.

#### History of Žofín Palace



In 1835, when Václav Novotný decided to build the first brick building on Slavonic Island (or Dyers' Island as it was then called), he had no idea that the one-storey neoclassical building named after the mother of Emperor Franz Joseph I, Princess Sophie (or Žofie in Czech), would become one of the most important cultural and social centres in Prague and the Czech Lands as a whole. In 1884 the municipality bought the whole island, including Žofín, and over the next two years it converted the building into the present neorenaissance palace with richly decorated interiors and fine halls that have now been part of Czech (and not only Czech) culture for the last 150 years. On 5 November 1882 the first performance of Smetana's My Country in its entirety took place at Žofín, and four years previously, on 17 November 1878, Antonín Dvořák had held his first concert here. The hall at Žofín also hosted performances of Zdeněk Fibich's works; Berlioz, Liszt, Tchaikovsky and Wagner all appeared here, and Jan Kubelík made his debut here. Žofín was also a venue for balls and dances. The first was held on 3 February 1841 and two years later the writer Božena Němcová danced here, and Žofín was visited by the poet Jan Neruda and other figures from Czech history.

Since 1994, when the renovation of the palace's exteriors and interiors was completed, Žofín has been managed by Agentura NKL Žofín, s.r.o. The company has restored and added to the glory of this exceptional venue where concerts of classical and popular music alternate with the Žofín Forums, international conferences and wonderful balls. Its location, in a venerable park with a view over Prague's historical panorama, and the magnificent and gloriously decorated halls with original paintings and stuccowork on the ceilings, fitted with modern lighting, sound and projection technology and air conditioning, once more offer unique opportunities and experience

# **Technical Exhibition**

During the ICOLD Annual Meeting the technical exhibition 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 accomplishments and new technologies.

The exhibition will take place from Monday to Wednesday.

The Welcome Reception will be held on the Exhibition floor.

Refer to the ICOLD 2017 website for further details at www.icold2017.cz



# **Accompanying Person Programme**

The following optional tours are offered to Accompanying Persons and Delegates for an additional fee. All tours are subject to cancellation if the minimum number of registrations is not met. Tours will depart from the Clarion Congress Hotel Prague. Lunch is included.

Monday, July 3, 2017				
AP1 Prague All in One	10:00–16:30	45 EUR		
AP2 Český Krumlov	08:30–18:30	74 EUR		
AP3 Karlovy Vary	09:00–18:30	62 EUR		
AP4 Plzeň	11:00–18:30	58 EUR		
Tuesday, July 4, 2017				
AP1 Prague All in One	10:00–16:30	45 EUR		
AP2 Český Krumlov	08:30–18:30	74 EUR		
AP3 Karlovy Vary	09:00–18:30	62 EUR		
AP4 Plzeň	11:00–18:30	58 EUR		
Wednesday, July 5, 2017				
AP1 Prague All in One	10:00–16:30	45 EUR		
AP2 Český Krumlov	08:30–18:30	74 EUR		
AP3 Karlovy Vary	09:00–18:30	62 EUR		
AP4 Plzeň	11:00–18:30	58 EUR		
Friday, July 6, 2017				
AP1 Prague All in One	10:00–16:30	45 EUR		
AP2 Český Krumlov	08:30–18:30	74 EUR		
AP3 Karlovy Vary	09:00–18:30	62 EUR		
AP4 Plzeň	11:00–18:30	58 EUR		

# **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 fairy-tale-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 fi Im 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.



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# Registration

# **Registration Fees**

Registration fee	Early (until March 31, 2017)	Late (from April 1, 2017)
ICOLD Member Countries	1 200 EUR	1 320 EUR
ICOLD Non-Member Countries	1 400 EUR	1 540 EUR
Accompanying person	480 EUR	530 EUR
Symposium only	180 EUR	200 EUR
Young Professionals (up to 35 years)*	600 EUR	650 EUR
Exhibitor	600 EUR	650 EUR

\*born after July 3, 1981

Registration fees include 21 % VAT.

# Note: Payments must be received by the corresponding deadlines (early or late), otherwise the subsequent rate will automatically apply.

#### The registration fee includes:

- Delegate bag including name badge and conference materials
- · Admission to Symposium incl. Proceedings, Technical Workshops and General Assembly
- Technical Exhibition access
- Coffee breaks and lunches
- · Social Programme (Welcome Reception, Cultural Event, Farewell Dinner and Prague City Tour)
- Technical Tour
- Book on Czech Dams
- · Free public transportation ticket for whole Annual Meeting

#### The registration fee for Accompanying person includes:

- Accompanying person bag including name badge
- Hospitality Centre
- Social Programme (Welcome Reception, Cultural Event, Farewell Dinner and Prague City Tour)
- Free public transportation ticket for whole Annual Meeting

#### The registration fee for Symposium only includes:

- · Delegate bag including name badge and conference materials
- · Admission to Symposium incl. Proceedings
- · Technical Exhibition access
- · Coffee breaks and lunch on Wednesday
- Cultural Event
- · Book on Czech Dams
- · Free public transportation ticket for whole Annual Meeting

#### The registration fee for Exhibition includes:

- · Delegate bag including name badge and conference materials
- · Admission to Symposium incl. Proceedings and Technical Workshop on Monday
- Coffee breaks and lunches (Monday-Wednesday)
- · Social Programme (Welcome Reception, Cultural Event, Farewell Dinner and Prague City Tour)
- Technical Tour
- Book on Czech Dams
- · Free public transportation ticket for whole Annual Meeting

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## How to Register

To register for the 85th Annual Meeting of International Commission on Large Dams, please fill in the on-line registration form.

First please fill in the Personal Data Form and continue to registration by choosing the registration fee. During the registration process a participant will receive a password and automatically generated summary to your email address. Your password is the same for all on-line forms (registration, accommodation, tours).

Upon submitting the Registration Form, a participant will receive a confirmation from the meeting within three working days.

The online registration will be closed from June 26, 2017. You will have the possibility to register on-site in the meeting venue.

For group registration (above 10 participants) please contact the Meeting Secretariat icold2017@guarant.cz

## **Methods of Payment**

Registration fees must be paid in EUR by one of the following methods:

#### 1. Credit Card

For payment by credit card please use the On-line Payment System. The system is accessible with the password that you received upon registration. The system accepts the following credit cards: **MasterCard/Eurocard**, **Visa** and **Diners Club**.

#### 2. Bank Transfer

The bank details including the **10-digit variable** symbol will be sent to a participant within three working days after the submission of the registration form. **Please note that payments without this variable symbol will not be identified** and the registration will not be confirmed.

Please note that payments by bank transfer will only be accepted **by June 19, 2017.** After this date only payments by credit cards will be accepted by using the On-line Payment System.

All payments made by bank transfer have to be net of all bank charges. The payer pays the bank charges of their bank, and the beneficiary pays the charges of their bank, if any.

## **Cancellations and Refunds**

The Meeting Secretariat must be notified in writing by e-mail (<u>icold2017@guarant.cz</u>) or fax (+420 284 001 448) about the cancellation of the registration. Telephone cancellation will not be accepted. The appropriate refunds will be made after the meeting.

The following cancellation conditions apply:

Cancellations received	Refund
before May 3, 2017:	full refund of the registration fee less 30EUR handling fee
From May 3, 2017 to June 2, 2017:	50% of the registration fee
from June 3, 2017:	no refund

If a change or cancellation made by a participant in registration or accommodation results in a refund, GUARANT International reserves the right to charge a 30 EUR handling fee.

#### Name change

If you are prevented from attending, you will be given the opportunity to send a colleague in your place. Name changes should be notified in writing to the Meeting Secretariat. A handling fee of 30 EUR will be charged for each name change. No name change will be possible after June 4, 2017.

## **VISA Requirements**

Invitation letters for visa purposes can only be sent to participants who have completed the registration process. Further information regarding visa requirements can be found at <u>www.icold2017.cz</u>.

# Accommodation

GUARANT International (further referred to also as the Meeting Secretariat) has been appointed as the official hotel accommodation agent for the 85<sup>th</sup> Annual Meeting of International Commission on Large Dams (ICOLD 2017) and will handle all related arrangements.

GUARANT International strongly advise all not to work with any unauthorized vendors/companies who may offer you hotel reservation services by phone / e-mail with *"discounted meeting rates"* and try to obtain your personal data including credit card details.

# List of hotels

A number of hotels of various categories at reduced rates are available for participants of ICOLD 2017 Meeting. Hotels are located in Prague city centre within reasonable distance to the Clarion Congress Hotel Prague (Clarion CHP).

Hotel		Price in EUR SGL / DBL	Travelling time to the Clarion CHP	
Clarion CHP ****	Standard	80 / 80	Mooting venue	
	Executive	110 / 110	Meeting venue	
5****				
Hilton Prague Old Town		211 / 231	11 min by metro	
Hilton Prague		194 / 212	12 min by metro	
Hotel Paris Prague		195 / 195	14 min by metro	
Deluxe room		1957 195		
Grand Hotel Bohemia		160 / 170	15 min by metro	
Grand Hotel Bohemia		150* / 160*		
Non-refundable rate*				
4****				
Century Hotel Old Town Prague		145 / 160	13 min by metro	
K+K Hotel Central		130 / 130	13 min by metro	
UNIC Hotel (1. 7.–2. 7. 2017)		125 / 135	15 min by metro	
UNIC Hotel (2. 7.–8. 7. 2017)		115 / 125	-	
Juliš		105 / 105	13 min by metro	
Clarion Hotel Old Prague Standard room (Rooms are available till 3. 4. 2017)		98 / 98	20 min by metro	
Jurys Inn		95 / 105	11 min by metro	
Astoria Non-refundable rate*		85* / 90*	17 min by metro	
Opera		72 / 78	12 min by metro	
Olympik		55 / 65	9 min by metro	
Olympik Double for single use		65	9 min by metro	
3***				
Atlantic		80 / 85	12 min by metro	
Carol		70 / 75	1 stop my tram	
City-Inn		60 / 65	11 min by metro	
Pivovar		52 / 55	260 m / 3 min	
Arlington			Loo III / O IIIII	
Arlington Non-refundable rate*		50 / 60 45* / 55*	1 stop by tram	
Adeba		45 / 50	12 min by metro	
BB Hotel		45 / 55	11 min by metro	
Zlatá Váha		45 / 55	13 min by metro	
2**		10,00	io minoy motio	
2 Pivovar		28 / 40	260 m / 3 min	
Pivovar Double for single use		40		

Note: Shuttle buses will not be provided between hotels and the Congress Venue.



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All rates quoted are per room per night including breakfast and 15 % VAT.

#### Full prepayment is required to guarantee the reservation and one night will be charged as a cancellation fee.

\*To benefit from non-refundable rates, 100% of the hotel reservation cost has to be covered while reservation is confirmed. Please note that the number of rooms in this category is often limited. No changes of non-refundable reservations will be accepted, 100% cancellation fee will be applied.

# To make a hotel reservation, it is necessary to fill in the Online Accommodation Form at www.icold2017.cz

#### **Group reservations**

For group reservations with please contact the Meeting Secretariat at e-mail address icold<u>2017@guarant.cz</u>, telephone number +420 284 001 444 or fax number +420 284 001 448. Our professional staff will assist you to find a suitable hotel for your stay and handle your reservation.

#### Please note that price of accommodation is not included in the registration fees More information incl. payment and cancellation conditions can be found at <u>www.icold2017.cz</u>



## Clarion Congress Hotel Prague

Freyova 33, 190 00 Prague 9

Clarion Congress Hotel Prague is situated in a modern part of Prague – Vysočany, just 15 minutes by public transport from the historical centre of Prague. Hotel offers accommodation in 559 nonsmoking rooms and luxury suites incl. internet access and air conditioning. A shopping gallery is a part of the hotel.



## Hilton Prague Old Town

V Celnici 7, 111 21 Prague 1

Hotel is located in the heart of the city, a short walk away from shopping, museums and theatres as well as landmarks such as the Old Town Square, Wenceslas Square and Charles Bridge. The Palladium shopping mall, the largest in the Czech Republic is located 5-minute's walk from the hotel.



#### Hilton Prague

Pobrezni 1, 180 00 Prague 8

Hilton Prague is conveniently located on the bank of the Vltava River within walking distance of historical sights. All of Prague's major attractions and shopping centers are within easy reach and the airport is just a 25 minute drive away. From delicious cuisine and stylish guest rooms, to their health club and meeting facilities, guests will find an impressive list of amenities at the hotel.



## Grand Hotel Bohemia Prague

Králodvorská 4, 110 00 Prague 1

Grand Hotel Bohemia is located in the centre of Prague, in the very heart of the Old Town quarter of Prague. Old Town Square with historical Astronomical Clock, the Charles Bridge, Wenceslas Square or Jewish quarter Josefov – all this can be reached within a few minutes of walking.

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# **Century Old Town**

Na Porici 7, 110 00 Prague 1

Hotel Century Old Town Prague MGallery By Sofitel, member of MGallery collection, is a 4-star hotel, fully non-smoking, located in the heart of the city just 10 min walk from the Old Town Square and Wenceslas Square. Neo baroque 19th century building with 174 air-conditioned rooms. Brasserie-style restaurant with summer terrace, bar, laundry and valet parking available.

# K+K Hotel Central

Hybernská 10, 110 00 Prague 1

The location of the K+K Hotel Central in Prague's Old Town - just a few steps away from the Powder Tower – demonstrates that the 4-star superior K+K Hotel Central is indeed a very central starting point for visitors to Prague, no matter what they wish to see and do. K+K Hotel Central offers accommodation in 127 stylishly designed rooms (Classic and Executive) equipped by air conditioning and free high-speed Internet access via LAN and WiFi.



#### UNIC Hotel Soukenicka 25, 110 00 Prague

Hotel UNIC Prague is a four star hotel opened in June 2013 right in the heart of the historical city centre, within walking distance to all major historical and cultural attractions and also largest shopping mall and shopping areas. The hotel was designed by famous Spanish architect Meritxell Cuartero and an interior designer Daniela Baeza. Interesting interior design is complemented by a collection of original paintings by famous Spanish artist Quim Domene



## Hotel Juliš

Václavské nám. 22, 110 00 Praha 1

EA Hotel Julis\*\*\*\* is located in the very centre of Prague, right on Wenceslas Square. The hotel is ideal for business travelers, leisure clientele as well as families with children. Air-conditioning in all rooms and hotel public areas, summer terrace with romantic view or indoor swimming pool.



## **Clarion Hotel Prague Old Town**

Hradební 768/9, 110 00 Praha 1

The hotel is located in the historical Old Town of Prague, only a 5-minute walk from the Old Town Square and Náměstí Republiky.



# Jurys Inn

Sokolovska 11, 180 00 Prague 8

Jurys Inn Prague is centrally located just 5 minutes from Prague Old Town and within easy reach of all the city's attractions. Located opposite to the Florenc underground Metro station, the famous Wenceslas square is just 2 stops away.

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## Astoria

Rybná 10, 110 00 Praha 1 – Staré město

4 Star Astoria Hotel in Prague Old Town is located only minutes away from some Prague's greatest attractions and sights such as Old Town Square, The Astronomical Clock and Wenceslas Square.



# Opera

Těšnov 13, Prague 1

Hotel is located just 5 minutes from the historic Old Town of Prague within close proximity to shopping, banking and historical treasures. Metro station and main bus station "Florenc" are located approximately 100 meters from hotel. All rooms are air-conditioned, equipped with satellite TV, minibar, safety box, smoke detector and internet access. Guests can also enjoy restaurant, bar and other amenities, such as sauna, fitness and hot tub.

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#### Olympik

Sokolovská 138, 180 00 Praha 8

Complex of hotels Olympik is located within a quiet area of the Prague 8 city district just 10 minutes ride from the historical city centre. Tram and metro stops are located just 300 metres from the hotel.



## Atlantic

Na Porici 9, 110 00 Prague 1

Hotel Atlantic is situated directly in the heart of Prague; just around the corner is the Municipal House and the main Prague shopping Boulevard. Hotel offers 62 spacious and comfortably furnished non-smoking rooms, a cozy lobby bar, conference and parking facilities, and a restaurant.



#### Carol

Kurta Konrada 12, Prague 9

Hotel Carol is located in a peaceful street in Vysocany, outside the busy centre. Metro station is located only 250m from the hotel.



#### City Inn Hybernská 13/1014, 110 00 Prague 1

Hotel City Inn is located in a historical building from the 19<sup>th</sup> century directly in the heart of the city near the Main Railway Station only a 10–15-minute walk from one of the Prague's main boulevard Wenceslas Square or the beautiful Old Town.

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## Pivovar

Freyova 12/1, 190 00, Praha 9

Hotel is located in a quiet part of these historical grounds dating from the 18th century at <u>Freyova</u> <u>12/1, Praha 9 – Vysočany</u>. The hotel has excellent transport connections. Vysočanská Metro station as well as bus and tram stops are less than 300 metres away. The journey by Metro to the centre takes approximately 15 minutes. There are also two large shopping centres (<u>Galerie Fénix</u> and <u>Galerie Harfa</u>) close to the hotel.



Arlington

Kurta Konrada 22, 190 00 Prague 9

Hotel Arlington is a 3-star hotel situated in Prague 9, in the neighbourhood of newly built in sports high-tech arena – O2 Arena.



#### Adeba Pernerova 16, Prague 186 00

The modern three-star Hotel Adeba offers comfortable accommodation at reasonable prices in the Prague's attractive area of Karlin. The hotel is located in a quiet neighbourhood in Prague 8 – Karlin. The centre of Prague is situated just a 20-minute walk away, or a 10-minute drive.



## **B&B Hotel Prague-City**

Prvního pluku 29, Praha 8, 186 00.

The B&B Hotel Prague-City offers comfortable and affordable rooms in the inner city of the Czech capital, just 100 metres from the Vltava River and 250 metres from the Florenc Metro and Tram Stop. Prague's Old Town and the Charles Bridge are 3 km away.



## Zlatá Váha

Senovážné náměstí 981/21, 110 00, Prague 1

Zlata Vaha is a modern, practical hotel with 240 beds in 94 rooms. The comfortable hotel rooms include en-suite facilities, are furnished with decorative cherry wood, and each room is equipped with a flat-screen TV and free Wi-Fi. All rooms are non-smoking. Hotel is within 10 minutes on foot from Wenceslas Square as well as 15 minutes from Old Town Square with the Astronomical Clock. Prague Castle is reachable in 3 km.

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# **General Information**

## Climate

The climate is a mixture of ocean and continental influences.

July is one of the warmest months of the year for the Czech Republic. Czech summers are usually mild (20-27°C/70-80°F) and somewhat humid, with the highest temperatures climbing to 30-35°C/85-95°F (occasionally higher) for short periods. Such heat waves can be expected in July and August. Sudden showers and thunderstorms are common, so bring an umbrella or be prepared to dash for cover.

# **Currency and Banking**

Czech Crowns are the official currency in the Czech Republic. Foreign currency exchange is available at Václav Havel Airport Prague and at most hotels, banks and exchange offices throughout the city. International credit cards are accepted for payment in hotels, restaurants and shops. Paying by cash in Euro is also possible in some restaurants and shops.

## Prague

"The Mother of Towns", "The Golden City", or "The City of a Hundred Spires", these are just a few of the many attributes that the Czech metropolis nestling above the river Vltava has earned for itself. Prague as a major destination of visitors arriving in the Czech Republic, with its appeal of architectural monuments of all styles, the traditional hospitality of its people and the excellent beer served by Czech pubs, as well as the remarkable mix of Czech, German and Jewish cultures, is considered one of the most beautiful cities, and not just in Europe.

In 1993, the city's historical centre was rightfully added to the UNESCO List of World Cultural Heritage. For lovers of historical monuments, Prague is, literally, a paradise. The grand Baroque palaces of the Hradčany quarter join forces to form a monumental gateway to Prague Castle, with its magnificent Gothic cathedral consecrated to St Vitus. The Lesser Quarter boasts a profusion of intimate corners and pleasant restaurants; fine burghers houses blend with splendid aristocratic palaces and charming gardens here. The Old Town of Prague offers its visitors a network of twisting medieval lanes and the Old Town Square. When exploring the remains of the former Jewish town, its synagogues, the Old Jewish Cemetery or the extensive collections of the Jewish Museum (one of the most valuable to be found in Europe), you are certain to experience a mysterious spiritual atmosphere. The Charles Bridge, the most beautiful promenade site in Prague, is alive with street artists and musicians.

# Official Airline Network for 85<sup>th</sup> Annual Meeting of ICOLD

## Save up to 20% on Travel with the Star Alliance Network

To obtain the Star Alliance Conventions Plus discounts please visit Conventions Plus online booking tool. To book a flight ticket with the discount please follow the link posted on the website.

Registered Event participants plus one accompanying person travelling to the Event qualify for a discount of up to 20%, depending on fare and class of travel booked.