



Initial Bulletin

International Commission on Large Dams

ICOLD 2018 26th Congress 86th Annual Meeting

1 - 7 JULY, VIENNA

www.icoldaustria2018.com





View of St. Stephen's Cathedral © WienTourismus/Christian Stemper

ICOLD 2018 – COMING TO AUSTRIA



On behalf of the Austrian National Committee on Large Dams, it is my great honor to invite you to the 26th ICOLD World Congress in combination with the 86th ICOLD Annual Meeting and the ATCOLD Symposium Hydro Engineering, to be held in Vienna, Austria.

The conference program will include interesting study tours to high-head pumped storage plants, run-of-river plants and excellent examples of Austrian dams at high elevation in the Alps.

The cultural program for participants and accompanying persons will include musical performances and excursions to some of Austria's most impressive sites.

Vienna is a pleasant and safe city with outstanding conference facilities as well as comfortable international travel connections and a well-developed local transportation network.

A great number of national institutions, the dam owners and the members of ATCOLD are looking forward to contributing to ICOLD, supporting the Congress in Vienna. Our aim is a productive get together for our community based on hospitality and friendship.

We look forward to welcoming you in Vienna.

A handwritten signature in black ink, reading 'Gerald Zenz'.

Gerald Zenz, President
Austrian National Committee on Large Dams

ICOLD

The International Commission on Large Dams (www.icold-cigb.net) is a non-governmental international organization which provides a forum for the exchange of knowledge and experience in dam engineering. ICOLD leads the profession in **setting standards and guidelines** to ensure that dams are built and operated safely, efficiently, economically, and are environmentally sustainable and socially equitable. The Central Office is situated in Paris and deals with the daily business of the Commission.





THE HOST

ATCOLD (Austrian National Committee on Large Dams), the Austrian Member of ICOLD, is the local host and organizer of 26th ICOLD World Congress and 86th ICOLD Annual Meeting.

Members of the board

Helmut Czerny, The Austrian Federal Ministry of Agriculture, Forestry, Environment and Water Management

Wolfgang Dittrich, Strabag AG

Werner Flögl, FHCE-Ingenieurbüro Dr. Flögl Ziviltechniker GmbH

Manfred Freitag, KELAG-Kärntner Elektrizitäts-AG

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Helmut Knoblauch, TU Graz, Graz University of Technology, Institute of Hydraulic Engineering and Water Resources Management

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Erich Wagner, VERBUND – Hydro Power GmbH

Ernst Zeller, Pöyry Energy GmbH

Gerald Zenz, TU Graz, Graz University of Technology, Institute of Hydraulic Engineering and Water Resources Management

CONFERENCE DATA

Event: ICOLD 2018
26th ICOLD World Congress
86th ICOLD Annual Meeting
ATCOLD Symposium
Hydro Engineering

Date: 1 - 7 July 2018

Exhibition: 2 – 5 July 2018

Delegates: More than 2.000 delegates from all over the world

Venue: Austria Center Vienna
Bruno-Kreisky-Platz 1
1220 Vienna

Sun, 1 July	86 th ICOLD Annual Meeting	Vienna City Tour		
Mon, 2 July		ATCOLD Symposium Hydro Engineering	Exhibition Opening	Opening Cocktail
Tue, 3 July			Exhibition	Technical Tour
Wed, 4 July	26 th ICOLD World Congress	Satellite Symposia		
Thu, 5 July		Concert Evening		
Fri, 6 July		Farewell Dinner		
Sat, 7 July		Study Tours		

THE EVENT – 3 IN 1

1 - 3 July 2018

The **ICOLD Annual Meeting** is organized in combination with the World Congress and will take place on the days before the congress.

2 - 3 July 2018

ATCOLD Symposium Hydro Engineering 2018, organized by your Austrian host.

4 - 7 July 2018

The **ICOLD World Congress** takes place every third year. We expect more than 2000 delegates from all over the world.





CONTRIBUTIONS TO THE ICOLD WORLD CONGRESS

Full papers for the ICOLD World Congress will be organized by each National Committee. The questions for the Congress are the following:

- **Q100 - Reservoir sedimentation and sustainable development**
- **Q101 - Safety and risk analysis**
- **Q102 - Geology and dams**
- **Q103 - Small dams and levees**

ABSTRACTS FOR THE ATCOLD SYMPOSIUM HYDRO ENGINEERING

The ICOLD World Congress 2018 presents the possibility to send abstracts and further full papers for our ATCOLD Symposium Hydro Engineering.

Symposium Topics

- **Climate Changes Reservoir Operation**
(Catchment, permafrost, glacier melting, erosion and sedimentation)
- **Permission and safety assessment**
(Construction and operation of hydraulic structures, inspection & assessment of operating devices)
- **Dam and foundation sealing**
(Long term behaviour and assessment of uplift distribution)
- **Caverns and power water ways**
(Design, construction and monitoring, power water way and lining with high strength steel)
- **Stability of reservoir slopes**
(Reservoir operation, avalanches, impulse waves, dam breach)

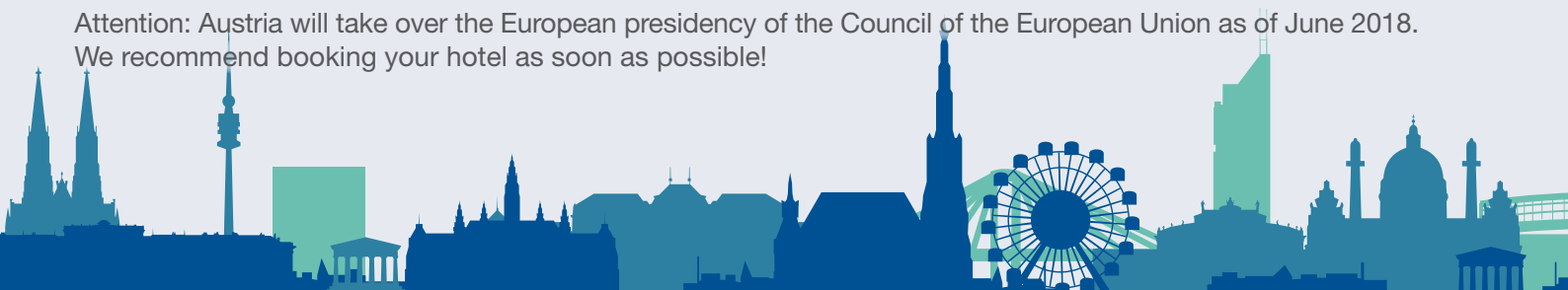
Authors are invited to submit abstracts on any of the given topics on www.icoldaustria2018.com/abstract-submission

Registration

All details about registration for the congress and the symposium can be found on our website www.icoldaustria2018.com/registration

Registration and hotel booking will start end of October 2017.

Attention: Austria will take over the European presidency of the Council of the European Union as of June 2018. We recommend booking your hotel as soon as possible!



CONFERENCE VENUE

Welcome to the Austria Center Vienna

Surrounded by contemporary architecture, just 7 minutes from the city center and a few minutes' walk from the Danube and the Donaupark, Austria's largest conference center has a total capacity for 20,000 delegates and offers 24 lecture rooms for between 100 and 4,320 participants, 180 meeting rooms and 22,000 m² of exhibition space.

The wide range of halls, rooms and outdoor spaces at the Austria Center Vienna is unrivalled in Europe, and the versatility of the rooms means event concepts can be tailored to both conventional and innovative meeting formats. The dedicated team works closely with event organizers to meet the needs of all of their participants. Because successful events bring people together.

Exhibition & Sponsoring

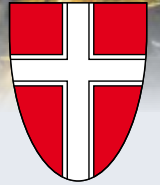
ICOLD 2018 offers a wide variety of options to reach your target audience. Please have a look into the detailed sponsoring and exhibition program at the congress website.

www.icoldaustria2018.com/sponsoring-exhibition

Accessibility

- 7 minutes from Vienna's historic city center by subway (U1- red line)
- direct link to Vienna International Airport via the airport bus (line 3 - travel time 30 minutes)
- direct link to A22 highway and parking garage





LOCAL INFORMATION

Vienna

Vienna, the Austrian capital, embraces all the traditions of a European city. It has a lot of historic buildings from different eras like Roman, Gothic, Baroque or Historicism. This is why Vienna is referred to by many as a unique blend, with each of the urban layers surrounding the old historic center being equally important to the renowned charme of the city.

Tourists love to visit Vienna because of the city's exciting combination of the royal-imperial flair of the past with the latest trends, the responsible cultivation of a precious heritage and its amiable traditions. Vienna is also often called "the capital of music" due to its musical legacy. Furthermore, the Austrian capital has one of the highest levels of quality of living in the world. And last but not least Vienna is one of the most popular conference cities in the world.

Vienna in Numbers

Total area: 415 km²
Population: 1,840,226 (1 January 2016)
Districts: 23
Average Age: 41
Nationalities: 180
Elevation: 171 m asl (Stephansplatz)
Currency: Euro

Time Zone

Vienna is in the Central European time zone (CET=GMT/UCT + 1). Daylight saving time applies from the last Sunday in March to the last Sunday in October (CEST).

Electricity

The typical main voltage for households (as well as hotels) in Vienna is 230 volts (alternating current). Plugs and sockets are European standard with two round pins.

Telephone

The telephone prefix for calling Vienna from other countries is 0043 1

Language

Official language: German

Water

Tap water is safe to drink in Austria.

Climate and Temperature

Vienna has a mild continental climate. For more actual weather details please visit:
www.wien.info/en/weather

Shop opening hours

- Offices and companies: Monday to Friday: 9.00 - 17.00
- Supermarkets and shops
Monday to Friday: 9.00 - 19.00
Saturday: 9.00 - 18.00
Sundays and public holidays: closed (exceptions: supermarkets at major railway stations and Vienna International Airport)



SOCIAL PROGRAM

Vienna City Tour | 1 July

Duration: approx. 3 hours

Start at conference venue at: 09.00 am & 02.00 pm

During this tour, you will get your first comprehensive impression of Vienna, its location and vastness, its inhabitants and of course its history. The Prater area is one highlight with the Giant Ferris Wheel, next passing the “Hundertwasser” house from Austrian artist and architect Friedensreich Hundertwasser. You will see stunning buildings along the “Ringstrasse”. This grand boulevard was built to replace the city wall. It runs along the Museum of Applied Arts, the State Opera, the Museum of Fine Arts and Natural History Museum, the parliament, the city hall, the Burgtheater and the university.



Spanish Riding School: The Winter Riding School © WienTourismus/Lois Lammerhuber



Stadtpark © WienTourismus/Wilfried Gredler-Oxenbauer



Giant Ferris Wheel in the Prater park © WienTourismus/Peter Rigaud



Opening Cocktail | 2 July

Duration: approx. 2 hours

Start: 06.15 pm

Enjoy the first evening at the congress venue with nice food and drinks, networking possibilities with delegates and exhibitors.

Technical Tour: Danube & Freudenu, the Vienna City hydropower plant | 3 July

Duration: approx. 3 hours

Start & end at conference venue at: 09.00 am & 01.30 pm

Note: there is limited capacity, bookings are based on a 'first come – first served' principle

The Vienna-Freudenau power plant is the tenth and most recent power station on the Danube river. It was built between 1992 and 1998 using the wet construction method.

Since its opening in 1998, it has been supplying hydroelectric power. The fishpass was the first of its size and was decisive for the ecological power station construction. The powerhouse in the middle of the stream houses six Kaplan-pipe turbines between the lockage and weir. The impeller diameter of 7.5 meters ranks among the biggest turbines in Europe. Each one boosts a directly paired three-phase alternator. Since 2011, the power plant in Freudenu has served as the central station of all nine Danube power plants, with Jochenstein being the only exception. The output of electric energy from renewable sources amounts to approximately 1100GWh each year.



Kraftwerk Freudenu © VERBUND





Welcome Reception | 3 July

Duration: approx. 2.5 hours

Start at the Town Hall: 07.00 pm

The Mayor of Vienna and ATCOLD invite all delegates to a charming reception to the festive hall of the Viennese Town Hall. The design of the richly adorned facade is guided by the Neogothic architecture of Flemish and Brabant secular buildings like the Brussels Town Hall. It features five towers including the central tower with a height of 98 m. On 21 October 1882, the Rathausmann statue was installed on the top, which soon became one of the symbols of Vienna.



Vienna City Hall © WienTourismus/Christian Stemper

Concert Evening | 5 July

Duration: approx. 2.5 hours

Start at the Wiener Konzerthaus: 07.30 pm

When, in 1913 the Wiener Konzerthaus was officially opened it was one of the most modern buildings of the Danube Monarchy. Architecturally the Konzerthaus presented a rare combination of Historism, Secessionism and Art Nouveau styles. On this evening we will enjoy a classical Viennese concert with famous melodies of Mozart, Strauß & more performed by the **Ambassade Orchestra Vienna**.



Farewell Dinner | 6 July

Duration: 4 hours

Start at the congress venue: 07.00 pm

The host of the world congress invites all delegates to a typical Austrian dinner with a musical journey from the mountains of Tyrol, the charming lakes of the Salzkammergut and the romantic Danube valley to Imperial Vienna. Traditional folklore tunes and elegant waltz dances will be performed, and typical Austrian food will be served.

This will be the perfect evening for you to wear your own national costume!





ACCOMPANYING PERSONS TOURS

Delving into Viennese life – walking tour 2 + 3 + 4 July, 02.00 pm

Vienna is known for its rich history, art and music. But what about the habits and traditions of the locals, the so called “Weana”? For example, the Viennese coffee house culture. These charming hot spots have been around in Vienna since 1685. Over the years the creative atmosphere and numerous coffee variations were particularly popular among writers, poets and musicians.

On the trail of these “Cafés”, reflecting the traditional Viennese life at its best, the tour leads through the city center. Along the way the participants learn about the importance of other Viennese “specialities” such as the ball season and the Viennese Waltz, Fiaker (horse-drawn carriage), “Würstelstand” sausage stands, Sacher cake, schnitzel and apple strudel.

Mozart & Strauss – the classical pop stars – walking tour 4 July, 09.00 am

Mozart and Strauss are Vienna’s most popular musicians - both of them influenced the cultural life and heritage of Europe and the world forever - each in his respective century.

During his childhood, Mozart visited the city twice (1762 and 1767) and found first admirers in the imperial family as a child genius. In 1781 he came to live longer in Vienna. In a letter to his family he wrote: “Vienna is the perfect place for my music.”

Strauss – the inventor of the Viennese waltz – lived in Vienna between 1825 to 1899. He created a new body awareness and life style. The waltz was the first dance where men and women danced very closely together. What a new experience! Even today couples sweep through the imperial palaces and the State Opera in the stormy $\frac{3}{4}$ beat.

This walk takes participants to the most significant sites in the lives of these two exceptional musicians like the golden statue of Johann Strauss in the Stadtpark or the St. Stephan’s cathedral.



Schönbrunn Palace – bus tour 2 + 3 + 4 July, 09.00 am

Schönbrunn (literally translated: beautiful fountain) represents one of the most important buildings of Austria's cultural heritages.

Enjoy a walk through the splendid imperial apartments of the Habsburg family. Each and every room, every hallway has its own story to tell – stories characteristic for the way of life and the flair of imperial times.

After the palace tour, enjoy a coffee break with an apple strudel show. During the show you learn how the typical Viennese apple strudel is made – followed, of course, by a strudel-tasting.

Wachau – the romantic Danube valley – day excursion 2 + 5 July, 08.00 am

The Wachau is situated in the west of Vienna and stretches between Melk and Krems. The interaction of natural and cultural landscape determines the unique character and attractiveness of the region. It is listed as a UNESCO World Heritage Site. The Danube flows past picturesque towns and villages, past vineyards and orchards (mainly apricots).

The excursion to the Wachau also includes a tour of Melk Abbey, one of the best known and most famous baroque monuments in Austria, as well as a romantic boat trip between Melk and Dürnstein.

Lunch is planned in a typical Austrian restaurant.



Burgenland, the sunny part of Austria – day excursion 3 + 5 July, 08.00 am

Burgenland is situated to the south-east of Vienna, and is known for its viticulture, its thermal springs, extraordinary landscape and the most sunshine hours in Austria. The famous Lake Neusiedl and its unique flora and fauna have been recognized by UNESCO as a World Heritage Site in 2001.

The first stop of the sunny tour is Eisenstadt, Burgenland's capital. This small baroque town is well known for Esterhazy castle and the Haydn Church. Joseph Haydn worked as music director at the court of Prince Nikolaus Esterhazy for more than 40 years. Many of his compositions premiered in this church. Haydn is buried in the Mausoleum of the church.

The next stop will be the city of Mörbisch, where you take a boat ride on lake Neusiedel accompanied by barbeque lunch on board.



Esterhazy palace in Eisenstadt, Burgenland © oesterreich-werbung-Pigneter

Schönbrunn © WienTourismus/Peter Figata

stift-melk © oesterreich-werbung-Herzberger

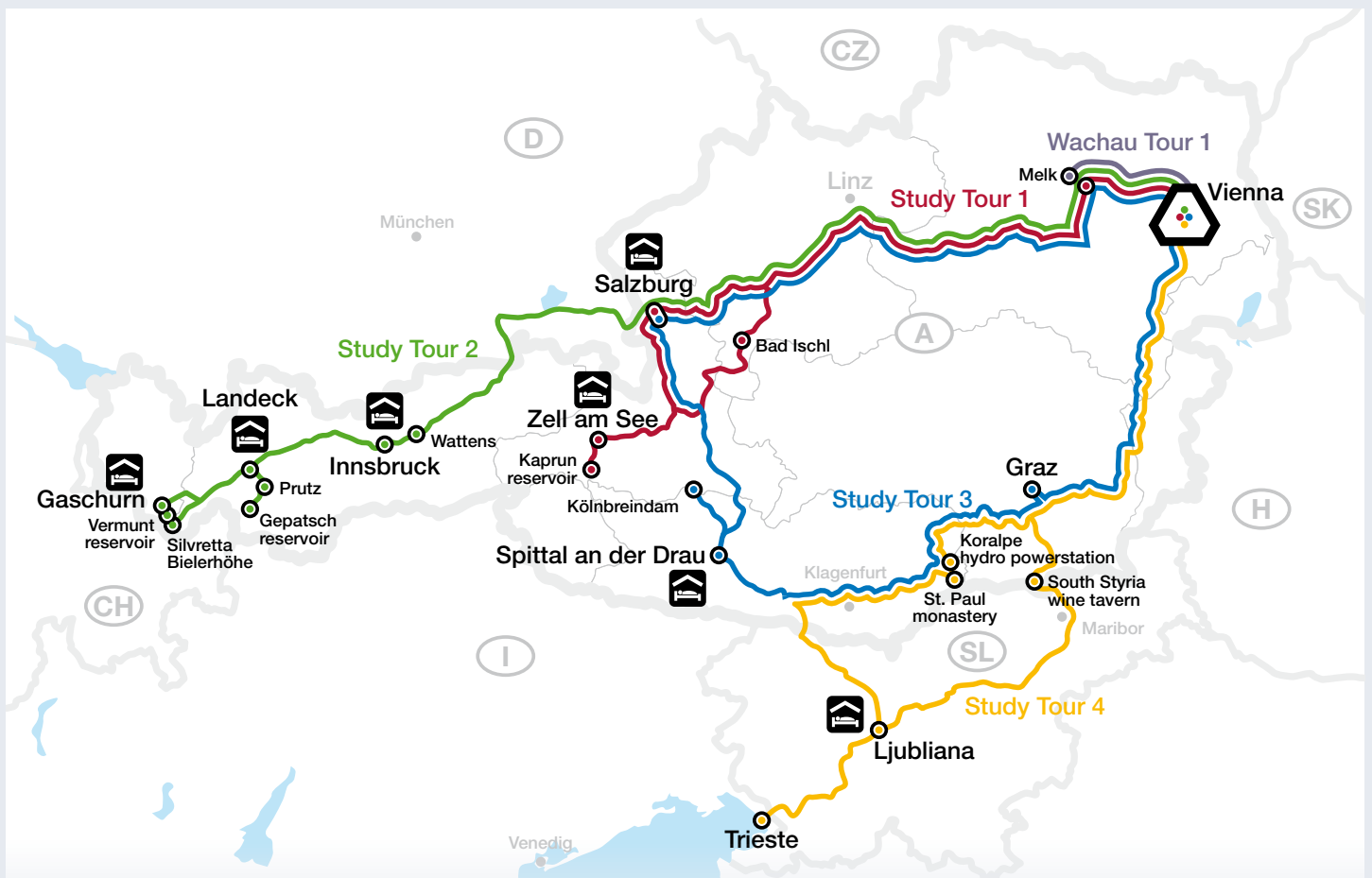




STUDY TOURS

The Austrian host provides you with four different study tours through Austria and its neighbouring countries. You will experience alpine and snow adventures and also get in touch with the Mediterranean Sea! Visits of interesting hydropower plants are included in each tour.

All tours will start at the conference venue on July 7 at 07.00 am





STUDY TOUR 1 | Vienna – Salzburg – Kaprun – Vienna

Day 1 Departure from Vienna heading to Salzburg – baroque jewel and the city of Mozart. In the afternoon we will visit the smart city hydroelectric power plant Lehen and the old historic city center. Dinner is planned at St. Peter Stiftskeller, one of the oldest restaurants of Salzburg. Accommodation in Salzburg City.

Day 2 After a short drive from Salzburg we will explore the high mountain reservoirs at Kaprun. The Wasserfallboden at 1700 m asl and the Mooserboden reservoir at about 2040 m asl will leave magnificent impressions. Accommodation in Kaprun, a nice village in federal state Salzburg.

Day 3 On our day trip back to Vienna, we will enjoy the beautiful Austrian landscape and a tour of the famous Melk abbey, powerplant Melk and the beautiful Danube valley Wachau, UNESCO world heritage.



GoIm Silvretta Lünersee Tourismus GmbH © Achim Mende

STUDY TOUR 2 | Vienna – Innsbruck – Obervermunt – Silvretta – Montafon – Landeck – Vienna

Day 1 Departure from Vienna heading to Innsbruck, the capital of the Alps where past and future meet in the heart of the impressive mountains. We enjoy a walk through the city of Innsbruck and finish our day with a typical Tyrolean dinner. Accommodation in Innsbruck city center.

Day 2 We leave Innsbruck to visit the joint venture power generating plant near Landeck and the Prutz Ti-wag power plant. In the late afternoon, we will arrive in Montafon, a famous valley in the central alpine region. Accommodation in Gaschurn, a typical village in Vorarl-berg, the westernmost federal state of Austria.

Day 3 We will have the opportunity visiting Kops and the Obervermuntwerk, high-head pumped storage hydro power plants. Travelling to Landeck will provide the impression of Silvretta reservoir and dams. Accommodation in Landeck, a small city on the way back to Vienna.

Day 4 We travel from Landeck to Vienna with some stops en route, finishing the trip in the evening at the Austria Center Vienna.



Kraftwerk Lehen © Salzburg AG





© verbund/malta_besucherzentrum



STUDY TOUR 3 | Vienna – Graz – Koralpe – Spittal – Kölnbrein – Salzburg – Vienna

Day 1 Departure from Vienna to Graz and walk through the beautiful and second largest city in Austria. Travel to Koralpe and visit of the hydro power station Koralpe Lavamünd. After the excursion, we will head to Spittal an der Drau and we will stay overnight there.

Day 2 Travel to Kölnbrein dam, which is the highest dam in Austria. Afterwards visit of village Gmünd, an ancient jewellery in the Alps. Further on transfer to Salzburg. Dinner is planned in St. Peter Stiftskeller, one of the oldest restaurants of Salzburg. Accommodation in Salzburg City.

Day 3 Explore the smart city hydropower plant Lehen in the urban area of Salzburg with a walking tour. After a lunch break we will travel back to Vienna. Arrival in Vienna in the late afternoon.

STUDY TOUR 4 | Vienna – Koralpe – St. Paul – Laibach – Triest – Südsteiermark – Vienna

Day 1 Departure from Vienna and transfer to Koralpe. There we will visit the hydro power station Koralpe Lavamünd. Further travel to the monastery St. Paul in Lavanttal, which was founded in 1091. Then, transfer to the capital of Slovenia, Ljubljana, where we will be accommodated the next two days.

Day 2 You will spend an interesting day in Ljubljana, the biggest city of Slovenia with almost 300,000 inhabitants.

Day 3 Day excursion to Trieste, the elegant Italian city at the Mediterranean Sea. The distance from Ljubljana to Trieste is about 100 km.

Day 4 Transfer to Vienna via South Styria. On the way we will pass by a hydropower plant on the river Drava. Arrival in Vienna in the late afternoon.



© TurizmLjubljana: Ivan-Tykhyy/mostphotos

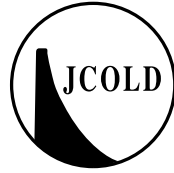




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Congress Host

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ATCOLD – Austrian National Committee on Large Dams
secretary@atcold.at

Our website

www.icoldaustria2018.com

Green Meeting

In 2010 the Austrian Ecolabel "Green Meetings and Events" guideline was created and has since established itself as a recognised and credible label for sustainable events. A "Green Meeting" is characterized by higher energy efficiency, waste avoidance and environmentally benign travel of the guests to and from the event. Also aspects of regional added value and social responsibility are taken into account. Therefore the national host ATCOLD aims to organize ICOLD 2018 according to the criteria of the Austrian Eco-Label for Green Meetings.



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