



International Conference on Groundwater in Fractured Rocks

CHAVES, PORTUGAL 5-7 JUNE 2017



Honorary session for Jiri Krásny

e-mail: gwfr2017@gmail.com

The IAH Network on Fractured Rock Hydrogeology The IAH Portuguese and Spanish Chapters

Second Announcement

MESSAGE FROM THE CHAIRS

In a few days we will meet in Chaves for the International Conference on Groundwater in Fractured Rocks (GwFR'2017), a place with history. Being a city since the Roman times, known as *Aquæ Flaviæ* in honour of the second Emperor of the Flavian dynasty *Titus Flavius Caesar Vespasianus Augustus (Titus, in power between 79-81 AD)* and son of *Vespasianus*, the city has some of the best preserved roman ruins in Portugal, namely the famous *Trajanus* Bridge and the recently discovered Roman Baths. *Aquæ Flaviæ* means Flavius' Water and the name is related with the thermal springs used since the Roman period.

We will meet once more to discuss the science of hydrogeology in fractured rocks, in the sequence of several other meetings in Europe in the last 30 years, many of them coordinated or driven by Jiri Krásny, the mentor of the Hard Rock Commission for so many years. So, we organise this meeting also in honour of his memory. A good personal friend of many of us and an IAH man in all its capabilities.

We expect to have new scientific advances in hard rock environments and case studies to be analysed and discussed around one of the most heterogeneous media hydrogeologists have to study.

We welcome all of you in Chaves. It will be an honour to receive you in one of the most beautiful places of Portugal.

António Chambel, Uwe Troeger, Javier Samper, Zbynek Hrkal



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CONFERENCE SITE

The sessions of the Conference will take place in the auditorium of **Forte de São Francisco Hotel** (GPS:41°44'33.5"N 7°28'11.6"W), in the center of the city of Chaves. (<http://www.fortesaofrancisco.com/en/meetings.htm>). Address: Rua do Terreiro da Cavalaria, 5400-435 Chaves.

CHAVES, THE HOST CITY

The city of Chaves is located in the bottom and border of a long graben surrounded by uplifted mountains in the central north of Portugal, a few kilometers from the border with Spain, 140 km from Oporto, and 450 km from Lisbon. Can be reached by highways and national roads from both countries. Nearest international airport is Oporto (OPO) that connects hourly with Lisbon, and all over Europe and other Continents. There are several ATM throughout this friendly city as well as all needed facilities and comfort for modern life as health care services. As a thermal mineral water SPA city it has beautiful gardens and leisure equipment.

In early June the weather it is expected to be hot, dry and more or less sunny, and mild in the early morning or night. There is some possibility of light thunderstorms this time of the year. Consult the site of the Conference some days in advance for a more precise weather forecast.

REGISTRATION FEE

If you couldn't do it before, you may register and pay in cash at the registration desk. No other method is available on site. Fees published in the site of the Conference apply (<https://portugal.iah.org/gwfr2017>).

The registration fee includes:

- Attendance to all sessions
- Documentation in personalized electronic support and in paper.
- Coffee breaks and mineral bottled water
- Reception Cocktail
- Field Trip and lunch that day.
- Bus from Oporto (ISEP) and Oporto Airport Meeting Points (4th of June) and return (7th of June)

Registration fee does not include other meals except during the Field Trip, accommodations or any other not listed services.



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PROGRAM

A detailed program will be delivered soon. The overall program is shown in the table:

Time	Day 5 June	Day 6 June	Day 7 June				
08:00 – 09:00	Registration	Field Trip (includes lunch)	Session 5				
09:00 – 09:30							
09:30 – 10:30	Opening Ceremony and Jiri Krásny Session			Coffee break			
10:30 – 11:00							
11:00 – 11:30	Coffee break				Session 6		
11:30 – 12:30	Session 2						
12:30 – 14:00	Lunch					Lunch	
14:00 – 15:30	Session 3						
15:30 – 16:00	Coffee break						Session 7
16:00 – 17:00	Session 4						
17:00 – 18:00	Meeting of the FRH Network	Closing Ceremony					
19:00	Reception Cocktail						
			Bus departure to Oporto (17:00)				

ORAL PRESENTATIONS

Presentation time is 15 minutes including discussion. Authors are requested to present their presentations media in PowerPoint at the previous session break or at the beginning of the Conference. You may send your presentation in advance to our email (max. 20MB) or by Wettransfer or alike by the 4th of June.

ACCOMPANYING PERSONS

An attractive program for accompanying persons is available, please inform at reception desk.

RECEPTION COCKTAIL

A Reception Cocktail organized by the Municipality of Chaves will be held at the *Museum of Contemporary Art Nadir Afonso*, near the Conference site. Address: Av. 5 de Outubro 10, 5400-017 Chaves, day 5 June, at 7:00 pm.

MEALS

Lunch is available at São Francisco Hotel. There is a varied offer of restaurants outside the Hotel. Information will be posted at the reception desk or in a leaflet.



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If you have any kind of restriction/allergy regarding food or if you follow a special diet, please inform the Organizing Committee in advance. Allergy information is available for all food products and meals sold to the public.

FIELD TRIP

The Field Trip will have the duration of all day in the 6th of June. Departure time by bus is at 9:00 am from the entrance of Forte de São Francisco Hotel. Attendants are requested to be there 15 minutes in advance. Mineral bottled water will be available any time. Lunch will be served (included in the Conference fee) at a convenient location. As it is expected hot weather please bring comfortable clothes, sun protection, and footwear capable of walk in dirt roads. Not expected long or any noticeably walk difficulties.

MEETING POINTS IN OPORTO AND TRANSPORT TO CHAVES

If you don't have transport from Oporto (Porto) to Chaves, or even if you have and need a rest in your travel the Organization provides suitable installations and a bus from Oporto to Chaves on Sunday the 4th of June. There will be two meeting points, of different kind:

¹Department of Geotechnical Engineering, School of Engineering (ISEP), Polytechnic of Porto open from 9:00 am to 6:30 pm (18:30)

This point will work all day from 9:00 am to 6:30 pm (18:30) with an innovative **Hydrogeologic Lounge** and special services for you. There are good transportations and several restaurants near. See below for detailed information.

²Oporto Airport at 7:00 pm (19:00)

At 7:00 pm (19:00) there is a stop of our bus at Oporto (OPO) AIRPORT to peek any one in transit and arriving. This Meeting Point in the Airport is located in the EXIT (SAÍDAS) hall (ground level) near the extreme rotating door left facing inside-out the airport building. Pay attention: someone identified with a badge of the Conference will be there at least one hour in advance of the leaving time handing for you a poster with a big "**GwFR'2017 - CHAVES**". Please approach and present yourself. Consult the Conference site the day earlier or so for an emergency phone number posted there temporarily.



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DETAILS ABOUT MEETING POINT @ ISEP OPORTO AND HYDROGEOLOGIC LOUNGE

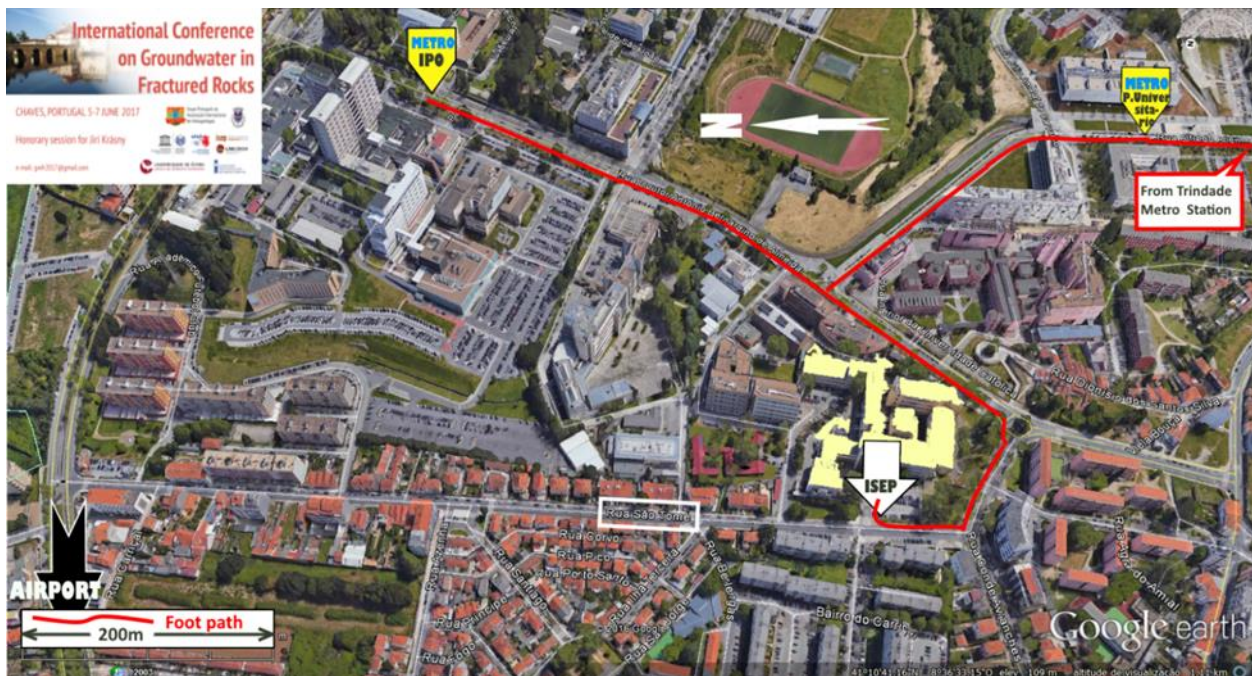
During all day from 9:00 am to 6:30 pm (18:30) we invite all attendants traveling through Oporto at any time you want to our very special HYDROGEOLOGIC LOUNGE. It comprises significant free services kindly provided by ISEP at its campus sited at Rua de São Tomé, Oporto. In reserved installations, you may rest comfortably, enjoy free Wi-Fi, snacks and refreshments, access to ATM, free park your car or deposit safely your luggage if you want to go for a walk.

As a very special offer you are invited to a free tasting experience from a large variety of Portuguese natural bottled source and mineral waters from fractured aquifers, assisted by hydrogeologists and graduating students from the School. You will be amazed by the diversity of hydrogeochemistry and tastes, and the outstanding quality standards of Portuguese bottled water. You may also enjoy your waiting time in appreciation of publications and posters on Hydrogeology and hydrogeologic related matters presented by ISEP researchers in international and national meetings, being able to have relaxed discussions with authors.

The day may be long and if you prefer going outside and enjoy our World Heritage city, ISEP is happy to invite you to join a free professionally guided and personalized tour to downtown Oporto. There you may have a meal or drink a small glass of the famous Porto. All you need to do is join us at ISEP at 12:30 pm in a good mood. All your belongings will be kept in safety at ISEP.

At 18:30 a bus will pick us at ISEP and on our way to Chaves we will have a stop at the Meeting Point @ Airport to pick those who arrive later.

The adjoined aerial view will help you find ISEP Meeting Point.





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ARRIVING AT OPORTO AND TO THE MEETING POINTS SUNDAY THE 4TH OF JUNE

Oporto (Porto) is served by an acknowledged International Airport. There, side by side, you have the subway (Metro) AEROPORTO Station. Take direction to downtown and Metro TRINDADE Station. Buy an ANDANTE Card per person at ticket machines in every Metro station. Charge it with the travel you need. From AEROPORTO to TRINDADE it is a Z4. During an hour from the first validation (mandatory at every beginning of travel). You can recharge ANDANTE with additional trips, adapted to the Zone you want to move. Security personnel at any major Metro station will be glad to help.

Oporto is also reached by train from the south of the country and Lisbon with destination PORTO-CAMPANHÃ Train Station (Lisbon-Oporto by train is less than 3 hours; consult cp.pt for schedules and online ticketing). This train station has also a side by side CAMPANHÃ Metro Station and from there you can take any Metro going direction the central TRINDADE Metro Station in downtown Oporto (buy a Z2 ticket if you travel from CAMPANHÃ to TRINDADE).

From TRINDADE Station you head to Yellow Line direction HOSPITAL S. JOÃO and leave Metro at POLO UNIVERSITÁRIO Station or IPO Metro Station. ISEP and Meeting Point is less than 5 minutes by foot from either Stations (see the map).

You can use Bus city lines (STCP) or take a taxi. Oporto is an important node in the toll free and payed highways and the national road networks. Enjoy if driving in Portugal, but drive carefully.

RETURNING TO OPORTO BY BUS AFTER THE CLOSING OF THE CONFERENCE

The Conference will provide a Bus with departure from Chaves (Hotel São Francisco) at 17:00 to Oporto with expected arrival time at Oporto Airport at no later than 20:00, at ISEP at no later than 20:30, and at Oporto central Metro TRINDADE Station at no later than 21:00

CONTACTS

Email: gwfr2017@gmail.com

A temporary phone number will be available to help you with any emergency, delay, or information need. Consult the website of the Conference or your mail on the 1th of June.

(1) "Departamento de Engenharia Geotécnica do Instituto Superior de Engenharia do Porto" or "Department of Geotechnical Engineering, School of Engineering (ISEP), Polytechnic of Porto". ISEP has been pioneering in education, research and training in Applied Science and Engineering since 1852, particularly in the Art of Mines, Exploration and Exploitation of Georesources, Geotechnics and Geo-environment. [<http://www.isep.ipp.pt/>]

(2) Oporto (Portuguese: Porto) is a modern European city, and an architectural jewel with outstanding civil and religious buildings from all times since the Middle Ages. It is well-known for its beauty, its booming cultural agenda, friendly environment and strong traditional roots, being also the Portuguese academic capital. In 1996, the old downtown facing the Douro River (Ribeira) was named UNESCO World Heritage. The city is famous for its bridges, Port Wine, the Lello bookshop, XVIII century Clérigos Tower, engineering, science and innovation, creative industries, architecture, history and mainly for its welcoming population. [<https://www.youtube.com/watch?v=GnjTCDFpQDE> / <http://www.visitOporto.travel/Visitar/Paginas/default.aspx>]