



INTERNATIONAL ASSOCIATION OF HYDROGEOLOGISTS

FIRST ANNOUNCEMENT

GwFR'2017 – International Conference on Groundwater in Fractured Rocks

and a session in honour of Jiri Krásny

<https://portugal.iah.org/gwfr2017>



CHAVES, PORTUGAL

5-7 JUNE 2017

Organized by:

The IAH Network on Fractured Rock Hydrogeology

The IAH Portuguese and Spanish Chapters

PRESENTATION

The International Association of Hydrogeologists (IAH) was created in 1956 and has 4.200 members in around 140 countries worldwide. The IAH objectives are the interaction of knowledge and the promotion of activities linked to hydrogeology. To comply with its objectives, IAH organizes conferences, congresses, and other scientific events, and edits books and the main journal dedicated exclusively to groundwater, the Hydrogeological Journal.

IAH has also fourteen commissions and networks, specialized in different topics, which correspond to the main scientific branches of the association. At national level, the associates of the different countries can form national chapters. IAH has more than 40 national chapters all over the World.

For this event, the IAH Network on Fractured Rock Hydrogeology, the IAH Portuguese and the IAH Spanish National Chapters have joined forces to organize an international conference in 2017.

The Network on Fractured Rock Hydrogeology is a long standing organization inside IAH, which dedicates to specific groundwater issues in fractured media and has organized a great variety of events since the 90's and published several books related with the topic.

The IAH Portuguese and Spanish Chapters represent and coordinate the IAH national, regional and international activities in Portugal and Spain, promoting at the same time groundwater in the respective countries and organizing round tables, debates and conferences on current topics.

The main objectives of these two chapters are:

- The promotion of hydrogeological studies.
- The cooperation with other scientific, technical and professional organizations.
- The promotion of scientific, technical, and water management with the aim to increment the knowledge and solutions related with the water cycle, especially with reference to groundwater.
- Edition and promotion of scientific-technical publications related to groundwater.
- To inform and advise the official and private media about issues related with hydrogeology and groundwater.
- To encourage and support the specialists in the beginning of their careers.

CONFERENCE

24 years after the IAH Congress in Oslo dedicated to Fractured Rock Aquifers, 14 years after the International Conference on Groundwater in Fractured Rocks, organized in Prague in 2003, and 5 years after the GwFR'2012 – International Conference on Groundwater in Fractured Rocks, also organized in Prague, it is our pleasure to announce the

GwFR'2017 – International Conference on Groundwater in Fractured Rocks

to be organized in Chaves, Portugal, by the IAH Network on Fractured Rock Hydrogeology, the IAH Portuguese and the IAH Spanish National Chapters, between 5 and 7 June 2017.

The conference aims to join groundwater specialists in fractured rocks worldwide and will have a session dedicated to honour the memory of our colleague Jiri Krásny, who was the main inspirer of these meetings and the founder of the Commission that was in the origin of the actual Network.

ORGANIZING COMMITTEE

The Organizing Committee is formed by members of the IAH Network on Fractured Rock Hydrogeology, the IAH Portuguese and the IAH Spanish National Chapters, a team of experienced organizers of previous conferences:

Chairpersons:

AntónioChambel	Portugal
UweTroeger	Germany
Javier Samper	Spain
ZbynekHrkal	Czech Republic

Other members of the Organizing Committee (by alphabetic order):

BartoloméAndreo Navarro	Spain
FermínVillarroya	Spain
Jorge Duque	Portugal
José Manuel Marques	Portugal
José Paulo Monteiro	Portugal
Manuel Abrunhosa	Portugal
Manuel Antunes da Silva	Portugal
Raquel Sousa	Portugal
Maria do Rosário Costa	Portugal
Rui Hugman	Portugal
SandorGrehs	Brazil
Stanislaw Stasko	Poland

SCIENTIFIC COMMITTEE

The Scientific Committee is formed by worldwiderecognized specialists, most part of them specialists in hydrogeology of fractured rocks, but also with experience in the organization and participation in scientific committees of conferences around the World (by alphabetic order):

Alessandro Gargini	Italy
Alfonso Rivera	Canada
Alicia Aureli	Italy
Alper Baba	Turkey
AndrzejWitkowski	Poland
AntónioChambel	Portugal
BartoloméAndreo Navarro	Spain
Bruce Misstear	Ireland
Carlos Calado	Portugal
Carlos Costa Almeida	Portugal
Carlos Molano	Colombia
Dave Kreamer	USA
EkaterinaViventsova	Russia
Elena Gimenez Forcada	Spain
Emilio Custodio	Spain
FermínVillarroya	Spain

Galip Yuce	Turkey
George Stournaras	Greece
Gerfried Winkler	Austria
Giovanni Barrocu	Italy
Han Zaisheng	China
Henryk Marszałek	Poland
Ian Ackworth	Australia
Jack Sharp	USA
Javier Samper	Spain
Jodie Miller	South Africa
José Manuel Marques	Portugal
José Martins Carvalho	Portugal
José Paulo Monteiro	Portugal
Joseph Datel	Czech Republic
Ken Howard	Canada
Luís Ribeiro	Portugal
Maciek Lubczynski	Holland
Makoto Taniguchi	Japan
Manuel Abrunhosa	Portugal
Marco Petitta	Italy
Martin Sauter	Germany
Miguel Auge	Argentina
Miguel Rangel Medina	Mexico
Mohamed Aboufirass	Marrocos
Patrick Lachassagne	France
Ricardo Hirata	Brazil
Roland Barthel	Sweden
Sergio Martos Rosillo	Spain
Shrikant Limaye	India
Stanislaw Stasko	Poland
Sylvi Gaut	Norway
Uwe Troeger	Germany
Wendy Timms	Australia
Yongxin Xu	South Africa
Zbynek Hrkal	Czech Republic

PLACE AND DATES

The conference will take place in the premises of the Hotel Forte de São Francisco, in the old town of Chaves (Aquaeflaviae in Roman times)) in the north of Portugal, by the border with Spain. The environment couldn't be better for the conference theme as it is situated in a fractured rock region where mineral and thermal waters coexist with water from phreatic fractured aquifers.

The conference dates are 5 to 7 June 2017, which includes a field trip in the region.

PUBLICATIONS

The Conference abstracts will be distributed between the participants in digital format and, depending on the quality of the abstracts and presentations, a book is planned for publication after the conference.

LANGUAGE

The official language will be English. The abstracts and final papers will be all in English.

REGISTRATION AND FEES

Registration is made on-line via the congress web-page: <https://portugal.iah.org/gwfr2017>.

The limit date to pre-registration is 31 March 2017 and the payment will be due by 30 April 2017 for the participants.

Action	Date
Pre-Registration	31 March 2017
Abstract and Extended Abstract submission	31 March 2017
Early payment	30 April 2017

Type of participant	Date	Registration fees
IAH Members or Associate Members	Before 30 April 2017	300 €
Non-IAH Members	Before 30 April 2017	400 €
IAH Student Members	Before 30 April 2017	100 €
Non-IAH Students	Before 30 April 2017	150 €
IAH Members or Associate Members	After 1 May 2017	350 €
Non-IAH Members	After 1 May 2017	450 €
IAH Student Members	After 1 May 2017	150 €
Non-IAH Students	After 1 May 2017	200 €
Accompanying Persons		150 €

CALL FOR ABSTRACTS

Participants intending to present a paper are requested to send a maximum of two A4 pages Abstract in English by 31 March 2017 or an Extended Abstract with a maximum of 4 pages, according to the rules in the independent document available in the congress website page (<https://portugal.iah.org/gwfr2017>). The Abstracts and Extended Abstracts will be sent to the Organizing Committee by e-mail (gwfr2017@gmail.com).

TECHNICAL EXCURSION

The technical excursion will be a field trip in the area of Chaves.

TRAVEL AND ACCOMODATION

The main airport closer to Chaves is in Oporto. The airport of Lisbon can also be a good solution. There are planes each hour from Lisbon to Oporto airport and several diary trains, as well as buses.

The transport from Oporto to Chaves must be done by bus, or by renting a car. More near the event we will inform about this part of the trip, once we are studying the possibility of having a dedicated bus for participants from Oporto to Chaves in the afternoon of the 4th of June.

Information about accommodation will be available soon, being the price of the rooms in the recommended hotels between 50 and 75€ per night.

INTERESTING PLACES AROUND CHAVES

Around Chaves there are several places and activities that can deserve the attention of participants or accompanying persons. So, if you are interested in spending some extra days in the region, here are some suggestions, some of them UNESCO landmarks:

- National Park of Peneda-Gerês, Natural Parks of Montesinho (Portugal), and Invernadeiro (Spain)
- Pre-historic art in Foz Côa (Portugal)
- Production area of Oporto wines (Douro Valley, Portugal)
- Oporto, Braga, and Guimarães towns, being the latter the origin of the nationality of Portugal.
- Santiago de Compostela (Spain)
- Coastal area of Galiza (Spain)
- Golf courses (9 to 27 holes, from coastal to mountain)

SUPPORT

- University of Évora, Geosciences Department
- UNESCO, International Hydrological Programme (IHP)

CONFERENCE STRUCTURE AND TOPICS

The Conference will have oral presentations, a poster session, and a special session in honour of Jiri Krásny.

Jiri Krásny was the founder of the IAH Commission on Hardrock Hydrogeology and coordinated several working groups throughout Europe during many years, pushed forward the knowledge on fractured rocks hydrogeology, created an important network between the different hydrogeologists working around the world and published papers and books that are references on modern fractured rocks hydrogeology. Jiri left us physically in 2016, but will continue in the memory of all who worked closely with him and those who took profit from his work along their career.

The proposed topics for this conference are:

SESSION	TOPICS	SOME CHALLENGES
A	Hydrogeological structure of fractured rocks	<ul style="list-style-type: none"> – Fractured rock structure. – Fracture connectivity – Aquifer limits
B	Groundwater prospecting, drilling and well construction in fractured rocks	<ul style="list-style-type: none"> – Groundwater prospecting (maps, satellite images, aerial photos, geophysics, drilling) – Well construction (type, protection) – Sanitary protection of wells
C	Groundwater flow in fractured rocks	<ul style="list-style-type: none"> – Flux in fractured rocks – Flow heterogeneity – Evolution of fracture systems
D	Chemical, physical and isotope	<ul style="list-style-type: none"> – Fractured rock hydrogeochemistry

	properties of groundwater in fractured rocks	<ul style="list-style-type: none"> – Isotopes in fractured rocks – Water-rock interaction
E	Investigation and interpretation methods in fractured rock environment	<ul style="list-style-type: none"> – Methodologies of investigation – Interpretation – Chemical, isotopic, and physical methods – CO₂ and energy storage
F	Modelling in fractured rock aquifers	<ul style="list-style-type: none"> – Modelling methodologies – Boundary conditions
G	Groundwater protection and aquifer remediation in fractured rock aquifers	<ul style="list-style-type: none"> – Groundwater protection, contamination and remediation – Methodologies
H	Ecosystems dependent on groundwater in fractured rock environments	<ul style="list-style-type: none"> – Importance of fractured rock aquifers to GDE's – Ecosystems dependent on groundwater in fractured rock environments
I	Thermal and mineral waters in fractured rock environments	<ul style="list-style-type: none"> – Origin of thermal waters – Hydrogeothermometers
J	Groundwater governance in fractured rock environments	<ul style="list-style-type: none"> – Groundwater politics – Legislation – Groundwater governance
K	Climate change in fractured rock environments	<ul style="list-style-type: none"> – Influence of climate change – Storage and renewable resources, MAR
L	Jiri Krásny session	<ul style="list-style-type: none"> – Jiri Krásny contribution to hydrogeological knowledge – Jiri Krásny contribution to IAH – Hydrogeological studies in areas where Jiri Krásny worked (Bohemian Massif and others)

PAYMENT

The payment will be done to the following bank account, by bank transfer:

IBAN PT50 0035 0033 00010610830 19

BIC SWIFT CGDIPTPL

Entity entitled to receive the fees: Grupo Português da Associação Internacional de Hidrogeólogos (AIH-GP)

VAT Number: 506206254

Address: Departamento de Ciências da Terra do Mar e do Ambiente da Faculdade de Ciências e Tecnologia, Universidade do Algarve, Campus de Gambelas 8005-139 Faro, Portugal.

A copy of the banktransference document must be sent to the email address gwfr2017@gmail.com, together with the payment form available for download in the website (<https://portugal.iah.org/gwfr2017>).