

From:

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## November 2022 KC NEWS



Karst  
Commission

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### The Karst Commission GEOTRIP is back on the calendar!!!

After the cancellation of the 2020 Yellowstone geotrip and the Covid period, we are finally ready to organize a new geotrip and resume the nice tradition of professional trips to karst landscapes somewhere around the globe. Based on the great help of Nataša Ravbar from Slovenia, Josip Terzic from Croatia and their teams, who agreed to organize a professional tour of the karstic landscape of Slovenia and Croatia, as well as the good advice of Zoran Stevanovic from Serbia, we are ready to open the geotrip for registration. **The geotrip will take place on May 22-27, 2023, starting and ending in Split, Croatia**, and during these 6 exciting days, the participants will visit caves, springs, ridges, an ancient water system, one research institute, and beautiful karstic landscape.

The geotrip is available to KC members but also to all those interested. We encourage students to join the geotrip and hope to meet as many of them as possible. According to the geotrip tradition, we will make every effort to reduce expenses.

More details about the conditions, estimation of expenses, meeting points, food, accommodation,

etc., will be given after we know how many people intend to join. Remember that “first come, first served”.

For now, we ask those interested to send us your intention to participate and to do so as soon as possible!!! Please send your name and country of origin to Avi Burg. Because of Data security, and to be sure that all requests will reach the destination, we ask you to send this information to Avi’s two emails:

burg@gsi.gov.il and aviburg@gmail.com

We would love to meet as many of you as possible in Split

Regards

The KC chairmen

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## **UN Water Summit on Groundwater: 7 – 8 December 2022, Paris, France**

The UN Water Summit on Groundwater aims to bring attention to groundwater at the highest international level. The Summit will use the UN World Water Development Report 2022 as a baseline, and the SDG 6 Global Acceleration Framework as a guideline to define actions towards more responsible and sustainable use and protection of groundwater. The Summit will unify the statements from all major water-related events in 2022 into one comprehensive groundwater message for the UN Water Conference 2023. This will be a unique opportunity to present groundwater to high level policy- and decision makers globally. Visit <https://groundwater-summit.org> to be informed!

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## **Next KC meeting on the 17th Sinkhole Conference: 27 – 31 March 2023**

**The next IAH Commission on Karst Hydrogeology meeting is planned on Wednesday, 29 March 2023 in Tampa, Florida (USA), during the 17th Sinkhole Conference organized here. The Sinkhole Conference (full name: Multidisciplinary Conference on Sinkholes**

and the Engineering and Environmental Impacts of Karst) is a traditional karst science event in USA, organized since 1984. The forthcoming event is planned in Tampa, Florida, scheduled for 27 – 31 March 2023 at the University of South Florida campus. Visit <http://www.sinkholeconference.com> and read more.

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## EVENTS REPORTS

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### 5th IAH Central Europe Group Conference in Slovenia (October 2022)

Traditional IAH Central European Group (CEG) conference on hydrogeology, the fifth in order, was held in Rogaška Slatina (Slovenia) between 5-7 October, 2022 as an extension of the Slovenian Geological Congress. The topic "Making Groundwater in the Danube Basin Visible" has been chosen to highlight the theme of World Water Day of the year 2022 "Groundwater – making the invisible visible". The conference was attended by some 60 participants, including Karst Commission members from Hungary, Serbia and Slovenia. There were 30 oral presentations and 11 posters, 8 of them and one special session being devoted to karst. For participants of the national geological congress and CEG conference three field trips have been organized to present the diversity of hydrogeology in the Alpine-Dinaric-Pannonian area. One of them – "Hydrogeological features in Dolenjska karst" included visit to several springs, caves and surface features in a region located in the SE part of Slovenia – the land of "classical karst".

*Krupa spring (mean discharge 3–5 m<sup>3</sup>/s), one of the largest in Dolenjska karst:*



*Prof. Mihael Brenčič, The Chairman of the Scientific Committee, is opening the event / Group of participants, standing in last row are young organizers, students in geology of the University of Ljubljana:*



## **Multidisciplinary conference „Karst 2022: Importance, State of the Art, and Prospective of Utilisation and Protection of Resources in Karst" – Belgrade (Serbia), 21-22 October 2022e**

The multidisciplinary conference „Karst 2022: Importance, State of the Art, and Prospective of Utilisation and Protection of Resources in Karst" was held on October 21, 2022, in the Grand Hall of Serbian Academy of Sciences and Arts (SASA) in Belgrade Serbia). Scientists from Serbia and the Balkan region presented their results of karst research. The conference's goal was to promote and popularize scientific disciplines dealing with karst research and the chance for professionals and students to present the results of their research on karst environments. The conference chaired by S. Marković, the President of the Board on Karst & Speleology of SASA, was opened by online addresses of the three members of the Honorary Committee: George Veni, John Gunn and Peter Malik. Plenary lectures were delivered by Z. Stevanović, J. Čalić and D. Mihailović, while the presentation of the book "Lands of Karst" was given by N. Kresic. During the event, there were 25 oral presentations split into three multidisciplinary sessions: (1) Research, utilization and protection of geodiversity and water resources in karst; (2) Karst geomorphology and speleological research; (3) Biospeleology, speleoarcheology, natural heritage and conservation. These conference sessions were dedicated to the deceased distinguished professors, members of the Board for Karst Speleology of SASA - prof. dr. Borivoje Mijatović, prof. dr. Dušan Gavrilović and prof. dr. Božidar Ćurčić. On 22 October excursion to the karst of Carpathian-Balkan mountain chain and its phenomena took place. Full event report can be reached on: [http://karst.edu.rs/en/documents/pdf/REPORT%20of%20the%20KARST2022%20SANU\\_Final.pdf](http://karst.edu.rs/en/documents/pdf/REPORT%20of%20the%20KARST2022%20SANU_Final.pdf).

*Participants of the "Karst 2022: Importance, State of the Art, and Prospective of Utilisation and Protection of Resources in Karst" Conference during the fieldtrip to the southernmost tail-end of the Carpathian Mountains Arc / Peter Malík in his speech given from the westernmost end of the same*



*mountain belt:*



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## **“Hydrogeology 101” – textbook on hydrogeology by Neven Kresic becoming available?**

Past KC chair and renowned hydrogeologist - Neven Krešić, just recently published a textbook on hydrogeology “Hydrogeology 101 – Introduction to Groundwater Science and Engineering” and offered it to IAH for free downloading. The textbook was developed for an undergraduate level academic course in hydrogeology (groundwater hydrology / geohydrology / groundwater engineering) with two main goals in mind: 1) to present this fascinating topic of groundwater science and engineering in fifteen manageable lectures (the duration of a typical one-semester course at American universities), in a manner that will, hopefully, make it attractive to students wishing to continue onto higher-level or graduate courses such as Hydrogeology 505 and Groundwater Modeling, and 2) to make it widely available, free of charge. We are looking forward

to the moment when it will appear available to all on the IAH webpage!

*Neven Kresic*

# Hydrogeology 101

*Introduction to Groundwater  
Science and Engineering*

## **MIKAS – Most Important Karst Aquifer's Springs International Project: in search of collaborators**

MIKAS, the international project supported by IAH KC and the UNECO IHP, aiming to establish the first complete list of the most important karstic springs at a global level (based on historic, aesthetic and scientific values), initiated by KC past-chair Zoran Stevanović, is still searching collaborators worldwide. Those who wish to contribute his regional knowledge please, contact Zoran Stevanović for additional details (zstev\_2000@yahoo.co.uk).

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## **New Website: European Cave Protection Commission**

The European Cave Protection Commission (ECPC) is happy to announce that their new Homepage is now live and online. After the renewing of the main European Speleological Federation website [www.eurospeleo.eu](http://www.eurospeleo.eu) the ECPC commission opted for a subsite with all its content. Some work still has to be done but the main topics are already online. You can access the site here: [www.eurospeleo.eu/ECPC](http://www.eurospeleo.eu/ECPC). In case that there is anything you would like to tell, please use the email address [protection@eurospeleo.eu](mailto:protection@eurospeleo.eu) or use the contact form on the site. Jean-Claude Thies, ECPC President European Cave Protection Commission Fédération Spéléologique Européenne, asbl. B.P. 3067, L-1030 Luxembourg

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## **Important note**

We continue our effort to raise money for the participation of students from third world countries in conferences and geotrips. We encourage more members to volunteer and donate to this important goal.

Those who wish to donate please contact chair Avi Burg by email: [burg@gsi.gov.il](mailto:burg@gsi.gov.il).

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## **New papers recommended by the Karst Commission**



Olarinoye, T., Gleeson, T., Hartmann, A. 2022: Karst spring recession and classification: efficient, automated methods for both fast- and slow-flow components. *Hydrology and Earth System Sciences*, 26, 26, 5431–5447; DOI: 10.5194/hess-26-5431-2022

Zeng, C., He, C., Liu, Z., , Gong, X., Chen, W., Zeng, Y., Deng, J. 2022: Storage capacity of a karst groundwater reservoir associated with a large dam in a humid subtropical canyon karst area in southwestern China. *Hydrogeology Journal*, 30(7): 1989–2012; DOI: 10.1007/s10040-022-02551-z

Ćuk Đurović, M., Petrič, M., Jemcov, I., Mulec, J., Grudnik, Z. M., Mayaud, C., Blatnik, M., Kogovšek, B., Ravbar, N. 2002: Multivariate Statistical Analysis of Hydrochemical and Microbiological Natural Tracers as a tool for Understanding Karst Hydrodynamics. *Water Resources Research*, e2021WR031831; DOI: 10.1029/2021WR031831

Vilhar, U., Kermavnar, J., Kozamernik, E., Petrič, M., Ravbar, N. 2022: The effects of large-scale forest disturbances on hydrology – An overview with special emphasis on karst aquifer systems. *Earth-Science Reviews*, 104243; DOI: 10.1016/j.earscirev.2022.104243

*Members who are interested in recommending a new relevant publication (their own or of their friends) are welcomed to send a link to one of the co-chairs.*



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