

**[Test] March KC News**

1 message

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Fri, Mar 15, 2024 at 4:30 PM

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**March 2024 NEWS**

Chairs: Peter Malik (Europe/Africa, 9/21 - 12/22); Avi Burg (Asia/Oceania, 1/23 - 4/24); Benjamin Tobin (Americas), 5/24 - 8/25)

**A message from the chairs**

We remind you all that the annual meeting of the KC will take place at the Eurokarst conference in Rome. We repeat our request to those who wish, to bring up a topic for discussion at the meeting. Send your topic to the chair in charge – Avi ([burg@gsi.gov.il](mailto:burg@gsi.gov.il)).

**We also remind you that the KC has the financial capability to support students who intend to participate in the Eurokarst conference. For the eligibility criteria and rules, see:**

<https://karst.iah.org/funding-for-young-scientists-to-attend-conferences>

We ask our members to encourage your students to attend the conference and to ask for our financial support.

**World Water Day 2024**

See a message from Emma Clare – IAH Education and Outreach Manager, regarding World Water Day:

*“Taking place on 22nd March, this year’s theme is ‘Leveraging water for peace’. Please see David Kremer’s IAH statement for World Water Day at: <https://iah.org/about/stories/world-water-day-2024>. We would also like to highlight the official UN celebration event, taking place at UNESCO Headquarters in Paris and live-streamed via an online webcast. For more details visit*

<https://www.unesco.org/en/articles/water-peace-official-celebration-world-water-day-2024>. If you are running activities for World Water Day, tell us what you have planned, or send through some details about the events afterwards (with some photos!), so we can publicise and collate the World Water Day activities taking place across the IAHR network. Events held in support of World Water Day can take place at any time of the year”

## UPCOMING KC EVENTS

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### Eurokarst 2024

The Eurokarst 2024 will be held at the main campus of Sapienza University, central Rome, between June 10 and 14, 2024. The abstract submission is already closed while the registration for the conference has just opened (go to: <https://www.eurokarst.org/congress-registration/>). **April 15th is the deadline for the early bird fee.**

**Pay attention to this message from the organizers:**

*“At least one Author for each abstract must be registered during the early-bird window, ensuring his/her participation in the conference”*

**As stated above the annual meeting of the KC will be held during this conference. Details about the meeting will be provided in the following months.**

For more details about the conference see: <http://www.eurokarst.org>

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## The IAH World Groundwater Congress 2024

The IAH World Groundwater Congress 2024 will take place from 8 to 13 September 2024 at the renowned Davos Congress Centre, Switzerland.

For more details about the conference see: [www.iah2024davos.org](http://www.iah2024davos.org)

**The call for abstract submission has been extended to March 24.** We remind you that three sessions (Karst hydrogeology I, II, III) are offered by KC members and the chairmen, focusing on different aspects of karst studies.

The submission platform can be accessed directly via [www.iah2024davos.org/submit](http://www.iah2024davos.org/submit).

**Key dates:** - 24 March 2024 – End of abstract submission,  
- 31 May 2024 – Early bird registration closes,

The Congress team is also inviting submissions for the best hydrogeology image, which will be displayed at the congress and on the congress website. In addition, students are invited to enter the video competition - "My Thesis in 180S". Submissions to both competitions close on 30 June. For more details see: <https://www.iah2024davos.org/#involved>

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## Karst and Caves, 2024 – Perm – Kungur, Russia

Attached below is an invitation letter forwarded from Russian colleagues to our member Zoran Stevanović to participate in a conference organized in the Ural region (Perm- Kungur). The conference will be held between May 28 - June 1, 2024, and aims to discuss the problem and achievements of karst and speleology in the first quarter of the twenty-first century. Participation in the conference is free of charge. The conference is also devoted to two events - the 120th anniversary of the birth of the famous karstologist Prof. Georgy Alekseevich Maksimovich and the 110th anniversary of excursions and scientific activity in the Kungur Ice Cave. The conference is organized by the Perm State National Research University and the Mining Institute of the Ural Branch of the Russian Academy of Sciences.

Key Dates: - March 22, 2024 - Applications submission,  
- March 22, 2024 - Paper submission,

Invitation letter

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## Characterization and Engineering of Karst Aquifers – CEKA

The international course “Characterization and Engineering of Karst Aquifers – CEKA” will be held in Trebinje, Bosnia and Herzegovina from May 26 to June 1, 2024.

This international course includes theoretical lectures on the basic concepts of karst hydrogeology and a few practical demonstrations and field trips within the territories of the Dinaric karst. The course is organized by The Centre for Karst Hydrogeology of the University of Belgrade, supported by UNESCO-IHP and several other institutions. The course is open to all but is especially devoted to younger and talented karst researchers. Attendance is free of charge.

Preliminary application form for CEKA 2024 can be found at the links below:

<https://www.karst.edu.rs/en/index.html>

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## "Man and Karst"

The third edition of "Man and Karst" will take place between June 24 and 29, 2024.

The event, organized by our member - Rosario Ruggieri, will be held in Ragusa Ibla (Sicily), and precisely in Auditorium San Vincenzo Ferreri located in the eastern part of the city (see attached image and map).

For more details look at <https://cirs-ragusa.org/blog/man-and-karst-2024/> where you find the first circular with all the required details and the registration form.

Information about discounted lodging and meals, as well as the public transportation to Ragusa Ibla, will soon appear on the conference website.

**Key Date: - Abstract submission and pre-registration close on April 30, 2024.**



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## The 31<sup>st</sup> International Karstological School

The Karst Research Institute in Postojna is organizing the 31st International Karstological School "Classical Karst" (IKS). The school offers a framework in which both young and experienced karstologists from all over the world can present new research in the field of karstology, make contacts, and familiarise themselves with classical karst. The meeting will take place between June 17 and 21, 2024 in Postojna, Slovenia, and will delve into the pivotal theme of data: its acquisition, processing, and interpretation.

We invite participants to share their experiences in characterizing karst environments, elucidate the challenges they have encountered, and present their inventive solutions

**Registration for the conference is already open.**

For more details see: <https://iks.zrc-sazu.si/en/>



## The 37<sup>th</sup> International Geological Congress (IGC2024)

The 37th International Geological Congress (IGC2024) will be held in Busan, South Korea, from 25 to 31 August, 2024. A special topic on karst hydrogeology is organized at the conference (<https://igc2024korea.org/content/14403>):

- Session 4 (under parallel session T18-Groundwater and Hydrogeology) – “Eco-hydrological Process and its Effects in Karst Environment”.

Convener: Guanghui Jiang (Guangxi University),

Abstract submission closed on February 16, 2024.

**Key date: - 26 April 2024 – Early bird registration closes,**

For more details about the conference see: <https://igc2024korea.org/>



## 4th European Regional Conference of IAEG (EUROEN GEO 2024)

Although not directly related to karst hydrology, you are invited to read about a conference whose details were sent by our friend Josip Terzić - *the European Regional Conference of the International Association for Engineering Geology and the Environment (IAEG)*, which will be held in Dubrovnik, Croatia, between October 8 - 12, 2024. The topic of the conference is: “Engineering Geology and Geotechnics: Building for the future”. The deadline for submitting abstracts is March 31, 2024.

Josip points out that there will be excursions to the karst landscape in the area near



## Recommended publications

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We wish to congratulate our member Stephen Worthington for having one of his articles selected to be on the Hydrogeology Journal Choice Articles for 2023 (see: Voss, C.I., 2024. Editor's Message: The 2023 Editors' Choice articles, Hydrogeology Journal (2024) V. 32:339-340; <https://doi.org/10.1007/s10040-024-02768-0>). The Editors' Choice Articles are those that are considered to be exceptional by the journal editors.

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KC members are known to be involved in an endless number of scientific studies and have a distinguished place in the scientific literature. We present here a limited selection of new articles in which members of the KC are involved as main or co-authors:

- Gil-Márquez, J.M., Durán-Valsero, J.J. and Andreo, B., 2024. *Introductory editorial to the topical collection: hydrogeological and geomorphological advances in karst and caves research. Environmental Earth Sciences*, V. 83(2), 54.

This is a short and interesting editorial describing the karst phenomena in general, the progress in the karst research, and the main topics discussed in a series of publications written after Eurokarst 2022 meeting in Malaga.

- Haryono, E., 2023. *Advances in Karst Geomorphology and Hydrogeology Research in the Last Decade and Its Future Direction for Karst Land Use Planning. In Research Directions, Challenges and Achievements of Modern Geography (Chapter 12, pp. 231-253), Banski, J., Meadows, M., editors. Singapore: Springer Nature Singapore.*

This chapter aims to review advanced research in karst, especially in the topics of geomorphology and hydrogeology, in the last ten years (2013 to 2023) and the direction for developing the application of the morpho-hydrogeological approach in karst land use planning.

- Eftimi, R., Liso, I. S. and Parise, M., 2024. *Hydrogeological Characteristics of the Makaresh Carbonate Karst Massif (Central Albania). Hydrology*, V. 11(2), 29.

The purpose of this article is to describe the hydrogeological characteristics of the small karst structure of Makaresh, Albania.

- Zhao, R., Huang, S., Pu, J., He, Q., Wang, H. and Jiang, X., 2024. *Effects of rainfall on the karst-related carbon cycle due to carbonate rock weathering induced by H<sub>2</sub>SO<sub>4</sub> and/or HNO<sub>3</sub>. Journal of Hydrology*, V. 630, 130664.

This paper describes high-resolution monitoring conducted at Lanhuagou Spring, which is a typical epikarst spring in southwest China, in order to determine the mechanism underlying the effect of rainfall on the karst-associated carbon cycle while being controlled by that of  $H_2SO_4$  and/or  $HNO_3$ .

- *Fischer, P., Jourde, H., Brunet, P. and Leonardi, V., 2024. Large-scale spatial reconstitution of groundwater fluxes in a karst aquifer on the basis of hydrodynamic and hydrodispersive measurements. Journal of Hydrology, 130866.*

This article presents a multi-physics-based approach for a large-scale spatial reconstitution of head and tracer test responses, measured in a regional scale karst aquifer in Southern France.

- *Aliouache, M., Fischer, P., Brunet, P., Lapierre, L., Ropars, B., Vasseur, F. and Jourde, H., 2024. Influence of karst conduit's geometry and morphology on 3D flow and transport processes: Insights from 3D tracer tests and numerical modelling. Journal of Hydrology, V. 632, 130953.*

In order to improve knowledge of transport processes in karst hydro systems, and to propose solutions to limit the downstream hydrogeological risks (contamination of water resources), a 3D mapping of a karst conduit, whose outlet is the Lez spring (southern France), was done to obtain the precise geometry and morphology of this fully water-filled karst conduit.

- *Selak, A., Reberski, J. L., Boljat, I. and Terzić, J., 2024. Characterizing occurrence of emerging organic contaminants in Dinaric karst catchment of Jadro and Žrnovnica springs, Croatia. Emerging Contaminants, 100327.*

The paper investigated the occurrence of emerging organic contaminants (EOCs) in the vulnerable Dinaric karst catchment of Jadro and Zrnovnica springs in Croatia, under varying flow conditions and across three different types of water resources (groundwater, springs, and surface water).

- *Maqueda, A., Renard, P. and Filipponi, M., 2023. Karst conduit size distribution evolution using speleogenesis modelling. Environmental Earth Sciences, V. 82(14), 360.*

In this article, a coupled reactive-transport model was used to simulate the evolution of a vertical section of a fractured carbonate aquifer and to investigate how the statistical distribution of the fracture apertures evolves. The numerical results confirm that the karstification proceeds in different phases (inception, gestation, development).

- *Leins, T., Liso, I. S., Parise, M. and Hartmann, A., 2023. Evaluation of the predictions skills and uncertainty of a karst model using short calibration data sets at an Apulian cave (Italy). Environmental Earth Sciences, V. 82(14), 351.*

The study aims at exploring the system behavior in a cave recharge area (Vora Bosco cave, Apulia, Southern Italy) by placing a multiparameter probe for groundwater level measurements. To characterize and quantify the natural recharge and discharge behavior of the system, a simple reservoir model was developed with the intention of predicting groundwater dynamics.



- Jourde, H. and Wang, X., 2023. *Advances, challenges and perspective in modelling the functioning of karst systems: a review. Environmental Earth Sciences, V. 82(17), 396.*

The article synthesizes the state-of-the-art in modeling karst environments. The paper offers recommendations for advancing the modelling of the hydrogeological behavior of karst systems and discusses its challenges and prospects.

- Behzad, H.M., Ford, D., Nie, Y., Peng, T., Keshavarzi, M., Zhang, J., Wang, F., Chen, H. and Vardanjani, H.K., 2023. *Illuminating the complexity of hydrogeological regimes in fault-influenced, anticlinal karst aquifers: Insights into the recharge patterns in tectonically complex karst catchments. Journal of Hydrology, V. 626, 130247.*

In this study, spring discharge hydrographs, water balance estimates, hydrochemical and stable isotopic analyses, geomorphological surveys, and a consideration of the geological and structural setting of the study area were used to investigate the hydrogeological function of karst aquifers drained by two large permanent springs: the Bibitalkhone and Sabzab, located in a highly faulted catchment in the Zagros Mountains (southwest Iran). The study provides insights into the hydrogeological regimes of fault-influenced aquifers, contributing to the sustainable development and proper management of water resources in tectonically complex karst catchments.

- Leone, G., D'Agostino, N., Esposito, L. and Fiorillo, F., 2023. *Hydrological deformation of karst aquifers detected by GPS measurements, Matese massif, Italy. Environmental Earth Sciences, V. 82(9), 240.*

The study describes hydrological and geodetic observations to characterize the effects of hydrological forcing (recharge-discharge cycles) on the displacements observed by GPS measurements collected by stations located in the karst area of the Matese massif (Apennines, central-southern Italy). Integrated statistical analysis of rainfall and spring discharge time series provided insight into timescales characterizing the hydrological dynamic of the Matese massif and highlighted how hydraulic conditions of the water table at a specific time depend primarily on long antecedent periods of rainfall.

**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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