
From:

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December 2022 KC NEWS



**Karst
Commission**

The time is running fast and the end of 2022 is here, a year that was significant for the hydrogeological community as the International Year of Groundwater. After a long time period affected by the COVID-19 pandemic, this year the opportunities to participate in face-to-face meetings and conferences were gradually more available. For the KC members these were mainly the EUROKARST 2022 Conference in Malaga with regular karst Commission meeting, or Man and Karst Conference in Sicily, but also many other opportunities that were reported in the KC News issued during the year. In the meantime, many activities were still strongly influenced by epidemiological measures. We would like to express our hopes that the forthcoming year will bring even fewer restrictions and even more opportunities for meetings, and not only for our small community. Of course – our greatest desire is peace, as it is the required condition not only for science and knowledge growth, but also for the normal undisturbed life of every inhabitant on the surface of our planet. There are many things that

each of us would like to express at the turn of the year - let's believe that our wishes will come true to the greatest possible extent.

At the end of December 2022, the term of service as the Karst Commission liaison officer in charge will expire for Peter Malík, one of the chairmen trio of the Karst Commission elected in August 2021 for Europe and Africa. Starting from January 2023, his responsibilities will pass to another member of the trio – Avi Burg (Asia and Oceania), while this responsibility will be taken later in spring 2024 by Ben Tobin (Americas). In the meantime, we wish a nice time of the upcoming holiday season to all members and friends of the Karst Commission - let's hope that we will all meet in good health next year.



Upcoming KC Events

Karst Commission GEOTRIP: 22 – 27 May 2023, Croatia / Slovenia

Detailed information about the Karst Commission GEOTRIP was already separately distributed just a few day ago: here we would like only to remind you about the basic facts concerning the action: The GEOTRIP will take place on 22-27 May 2023, starting and ending in Split, Croatia, the

participants will visit caves, springs, ridges, an ancient water system, one research institute, and beautiful karstic landscape in both Croatia and Slovenia. Your interest and the intention to participate should be send to Avi's two emails: burg@gsi.gov.il and aviburg@gmail.com. Many thanks for great help of Nataša Ravbar (Slovenia) and Josip Terzic (Croatia) and their teams, who agreed to organize this professional tour around the beautiful karstic landscape of the northern Balkan region.

Please note: the registration will close within a week, so hurry...

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) at the 17th Sinkhole Conference. 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.

Karst Groundwater at EGU General Assembly (Vienna, Austria), 23 – 28 April 2023

Our colleagues Isabela, Daniel, Jannes, Mario and Hervé would like to advertise that they proposed a session about Karst Hydrogeology within the framework of the EGU General Assembly, 23 – 28 April 2023 in Vienna (Austria).

**The deadline for the submission of abstracts is 10 January 2022,
13:00 CET !!!:**

https://egu23.eu/programme/how_to_submit.html

Session ID#: HS8.2.4

(<https://meetingorganizer.copernicus.org/EGU23/session/45466>)

Session Title: Toward a better comprehension of karst hydrogeology: multi-disciplinary approaches for water resource management and mitigating hazards in karst environment

Session Description: Karst environments are characterized by distinctive landforms and unique hydrological behaviours. Karst systems are extremely complex, heterogeneous and very difficult to manage, because their formation and evolution are controlled by a wide range of geological, hydrological, geochemical and biological processes, and are extremely variable in time and space. Furthermore, karst systems are highly vulnerable to a variety of hazards, due to the direct connection between the surface and subsurface through the complex networks of conduits and caves.

In karst, any interference is likely to have irreversible impacts and may disturb the natural balance of the elements and processes. The great variability and unique connectivity may result in serious engineering problems: on one hand, karst groundwater resources are easily contaminated by pollution because of the rapidity of transmission through conduit flow, and remediation action, when possible, could be very expensive and require a long time; on the other hand, the presence of karst conduits that weakens the strength of the rock mass may lead to serious natural and human-induced hazards. The design and development of engineering projects in karst environments thus should require: 1) an enhanced understanding of the natural processes governing the initiation and evolution of karst systems through both field and modelling approaches, and 2) specific interdisciplinary approaches aimed at mitigating the detrimental effects of hazardous processes and environmental problems.

This session calls for abstracts on research from karst areas worldwide related to geomorphology, hydrogeology, engineering geology, hazard mitigation in karst environments in the context of climate change and increasing human disturbance.

Conveners:

Mario Parise, Università degli Studi di Bari Aldo Moro, Italy

Herve Jourde, HydroSciences Montpellier (HSM), Université de Montpellier, CNRS, IRD, Montpellier, France

Isabela Serena Liso, Università degli Studi di Bari Aldo Moro, Italy

Jannes Kordilla, Georg-August-Universität Göttingen

Daniel Bittner, Erftverband, Germany



Training courses

Visual KARSYS GeoModelling Course N4: 22 – 23 February 2023

The course dedicated to the learning of the construction of 3D geological models with the implicit approach, will be organized again, now in two sessions dated on 22 and 23 February 2023. Participants will be briefly introduced in the theoretical aspects of 3D GeoModeling and will be guided through the construction of a 3D geological model in a folded / eroded / thrust environment by using different geological data (maps, cross-sections, drill holes, galleries, faults, etc.). The course is designed to geologists and/or hydrogeologists working in complex areas, including

karst.

Course fee: employees CHF 170/students CHF 120.

For registration and questions contact: info@visualkarsys.com and <https://www.visualkarsys.com>.

AQUAVEO modelling courses Winter 2023

Aquaveo conducts training courses in water resources modelling for groundwater, surface-water, and watershed environments, now again as in-person courses: • GIS-Based Modeling & Data Management using AHGW: Provo, UT, USA / in-person course / 8 – 10 March 2023; • Hydrologic & Hydraulic Modeling with WMS: Provo, UT, USA / in-person course / 31 January – 3 February 2023; • Groundwater Flow & Transport Modeling with GMS: Provo, UT, USA / in-person course / 10 – 13 January 2023 and Virtual Course - January 17 – 20 2023. Due to increased demand for in-person and virtual courses, GMS will be offered in both formats. Course attendees get a 25% discount up to \$500 on the purchase of a software license or upgrade.

Learn more on <https://www.aquaveo.com> » Services » Training.

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.

New papers recommended by the Karst Commission

Maksimovich, N., Kadebskaya, O., Meshcheriakova, O. 2022: Sulphate Karst of Perm Region (Russia). Springer series "Cave and Karst Systems of the World", 152 p., DOI: <https://doi.org/10.1007/978-3-031-18972-2>

Kiyani, V., Esmaili, A., Alijani, F., Samani, S., Vasić, L. 2022: Investigation of drainage structures in the karst aquifer system through turbidity anomaly, hydrological, geochemical and stable isotope analysis (Kiyani springs, western Iran). Environmental Earth Sciences, 81(22); DOI: [10.1007/s12665-022-10627-y](https://doi.org/10.1007/s12665-022-10627-y)

Geravand, F., Hosseini, S.M., Maghsoudi, M., Yamani, M. 2022: Characterization of Karst Springs from Zagros Mountain in southwestern Iran. Environmental Earth Sciences. 81(23)529; DOI: [10.1007/s12665-022-10645-w](https://doi.org/10.1007/s12665-022-10645-w)

McGibbon, C., Crossey, L.J., Karlstrom K.E. 2022: Fence Springs of the Grand Canyon, USA: insight into the karst aquifer system of the Colorado Plateau region. Hydrogeology Journal 30(8):2379-2398; DOI: [10.1007/s10040-022-02541-1](https://doi.org/10.1007/s10040-022-02541-1)

Frank., S., Fahrmeier, N., Goeppert, N., Goldscheider, N. 2022: High-resolution multi-parameter monitoring of microbial water quality and particles at two alpine karst springs as a basis for an early-warning system. Hydrogeology Journal, 30(8):2285-2298; DOI: [10.1007/s10040-022-02556-8](https://doi.org/10.1007/s10040-022-02556-8)

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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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