
[Test] March KC News

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Mon, Mar 13, 2023 at 10:41 PM

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**Karst
Commission****In this issue**

- Chairmen's request
- A request of Ian Davey
- Call for papers to a special issue
- Upcoming KC events,
- New papers recommended by the KC,

March 2023 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)

Chairmen's request

We, the three chairmen of the KC, believe in distributing our ideas and activities to other audiences around the world, including in countries that have not been interested in our activities so far and young students. We think that increasing our group and bringing in young people will benefit both them and us by increasing mutual interaction, expanding knowledge, getting to know new regions, and openness to new methods and approaches. We, therefore, ask our members to invite new friends, colleagues, and students to join the group and be active in it.

Important: Our group meeting will take place at the end of the month, see details below.

The availability of the previous news files, a request of Ian Davey

Ian Davey, the Executive Manager of the IAH, found it important to post the KC News on our website so that it will be available to all interested curious people. Following his request, the previous files of KC News can be viewed at:

<https://karst.iah.org/kc-news>.

Please note, not all files are already attached to the website.

Call for papers to a special issue, a message from Ognjen Bonacci

Following a previous message (February 2023) from our friend Ognjen Bonacci about Jadro Spring, located near Split, Croatia, we repeat his request to submit papers in Discover Water, Springer Collection for a special issue on “extreme water-related phenomena behaviour in karst regions in past and recent time”. Ognjen Bonacci and Ivo Andric are the guest editors.

The main topic of the paper should cover the following aspects: 1) A historical review of extreme water phenomena (drought, floods, wildfires, low groundwater levels, water pollution, landslides, sinkhole collapse, seawater intrusion, etc.) in different karst regions; 2) Recent extreme phenomena with special reference to record-breaking floods and droughts; 3) Are there differences between extreme water behaviour in karst regions in past and recent time?; 4) Natural versus man-made influence on extreme water behaviour in karst areas; 5) Extreme water behaviour in urban areas developed in karst areas; 6) Karst flash floods as especially dangerous and very frequent extremely dangerous phenomenon in recent decades; 7) Case studies of anthropogenic actions on increasing risk of catastrophic repercussions in karst terrains; 8) Climate changes influence on the appearance of extreme water-related catastrophic events; 9) Earthquakes in karst area; 10) Karst surface collapse, debris flows, landslides, water inrush, etc.; 10) Risk analyses particularities in karst terrain; 11) Sea water intrusion in coastal karst areas; 12) Environmental and social risk in karst areas caused by extreme water-related phenomena.

To submit a manuscript, please follow the instructions provided on the website:

<https://link.springer.com/collections/gbbejehecj>

[http://UPCOMING KC EVENTS](#)

===== **Approaching soon: KC meeting on the 17th Sinkhole Conference: 27-31 March 2023**

The 2023 meeting of the IAH Commission on Karst Hydrogeology is planned for Wednesday, 29 March 2023 in Tampa, Florida (USA) during the 17th Sinkhole Conference.

Two of the current KC chairmen - Peter Malik and Ben Tobin, will welcome you in Tampa!!!

Members wishing to raise a topic for discussion or present any idea are asked to

send an email to Peter (peter.malik@geology.sk) or Ben (benjamin.tobin@uky.edu). Below is the relevant information for those who intend to participate remotely via zoom:
The meeting will take place on March 29 at 12:00 PM, Eastern time (USA and Canada).
Register in advance for this meeting at:
https://uky.zoom.us/meeting/register/tZEkc-ytrTMOg9abVrnsDTHxVKo8Kc_M6lrC
After registering, you will receive a confirmation email containing information about joining the meeting.



A reminder of the last successful meeting of the KC in Malaga 2022

The Sinkhole Conference (full name: Multidisciplinary Conference on Sinkholes and the Engineering and Environmental Impacts of Karst) is a traditional karst science event in the USA, organized since 1984. In 2023, the event is planned in Tampa, Florida, scheduled for 27 – 31 March 2023 at the University of South Florida campus. More details on <http://www.sinkholeconference.com>

10th International Course “Characterization and Engineering of Karst Aquifers” (CEKA): 29 May – 4 June 2023, Trebinje, Bosnia and Herzegovina

The course is organized by the Centre for Karst Hydrogeology of the Department of Hydrogeology, University of Belgrade - Faculty of Mining & Geology, the Geological Survey of the Republic of Srpska, from Zvornik (B&H). Support to this anniversary CEKA2023 will be provided by the hosts - Hydro-electric power plant system of Trebišnjica River - HET and the City of Trebinje. The event includes lecture sessions, field excursions, a 10-year celebration of the CEKA course as well as 15 years of successful work of the Centre for Karst Hydrogeology - CKH.

Additional information can be found at the website: www.karst.edu.rs, or contact Prof. Saša Milanović, Head of Centre for Karst Hydrogeology, University of Belgrade: sasa.milanovic@rgf.bg.ac.rs

IAH worldwide groundwater congress: 17 – 22 Sept. 2023, Capetown, South Africa

The Congress theme for IAH 50 is "Groundwater: A Matter of Scale". This theme combines scientific advances through local to global scale experiments and case studies, with those extending over various temporal scales.

hosts several commissions including our own. We urge the KC group members to attend this conference that brings together most members of the IAH - the umbrella organization that

Below are the important dates relevant to those who intend to participate:

- 8 February 2023 – online registration,
- 31 March 2023 – Abstract submission deadline,
- 20 April 2023 – Abstract acceptance confirmed,
- 31 May 2023 – Early Bird registration deadline,
- 21 August 2023 – Late registration deadline,

Find out more information at <https://iah2023.org.za>; also attached below is the latest information from the conference Organising Committee.

**ABSTRACT
DEADLINE**
EXTENDED
31 March

NEWS • NEWS • NEWS • NEWS • NEWS • NEWS • NEWS • NEWS • NEWS • NEWS • NEWS • NEWS



NEWS

ONLINE REGISTRATION NOW OPEN

IAH WORLDWIDE GROUNDWATER CONGRESS

"Groundwater: A Matter of Scale"

Online, **early bird registration** is now open at <https://iah2023.org.za/registration/>. Please take advantage of the opportunity to become a member of IAH and benefit from the discounted Congress registration fee to attend the IAH2023 Congress.

IAH Membership: <https://iah.org/join-us>

We are excited to announce that one of our keynote speakers is Professor Seifu Kebede Gurmessa. Seifu is the IAH Vice-President for Africa and has published extensively on global groundwater issues and African Hydrogeology. Dr John Cherry intends to host a special session on the groundwater project showcasing African contributions. The Socio-Hydrogeology Network will hold a special session on "THE CONNECTEDNESS OF GROUNDWATER AND HUMAN SYSTEMS". This session aims at discussing

approaches, techniques and case studies focused on inter- and transdisciplinary assessments of the connections between humans and groundwater at different scales. The Socio-Hydrogeology Network invites abstracts in support of the topic.

This year's congress programme includes 5 Field Excursion options for delegates to select from.

IAH2023 has adapted the traditional format of the congress slightly and the Congress will commence with the Field excursion on Monday, 18 September 2023. The excursion will provide delegates the opportunity to meet new colleagues and catch up with old friends during the excursion before the official congress programme commences on Tuesday, 19 September 2023.

Information on the Congress programme, Field excursions and on becoming a sponsor or booking an exhibition stand, please visit:

 **Programme at a glance**

 **Excursions**

 **Sponsorship & Exhibit**

IAH2023 is pleased to announce the support of the following sponsors:



**5
CPD POINTS**
Category 1
(with SACNASP)

IMPORTANT DEADLINES

Online Registration	Now open	Abstract Acceptance confirmed	20 April 2023
Call for Abstracts	Now open	Early Bird Registration deadline	31 May 2023
Abstract submission deadline	31 March 2023	Registration closes	21 August 2023

* For South African delegates only

Website: <https://iah2023.org.za>



Email: deidre@iafrica.com

Visual KARSYS GeoModelling Course N16: 26-27 April 2023

The next Visual KARSYS online course will be organized in 2 sessions of 3 hours each, dated 26 and 27 April 2023. The course is dedicated to learning the KARSYS approach through an application on a pilot site by using the Visual KARSYS web-tool. It suits geologists and hydrogeologists working in complex environments, including karst. Attendees will be introduced to the theoretical aspects of the approach and the practical process of its application: project dimensioning, data introduction, 3D geological modeling, groundwater modeling, end-user functionalities, etc.

Recommended articles

See below some interesting articles, all dealing with different aspects of flow in karst complexes, including contaminant transport (nitrates (5), microplastics (2)), using dye tracers to track flow in some of the world's oldest karst areas (1), characteristics of karst flow in chalks (3). One article (4), written by our friend Marco Petitta in collaboration with other IAH directors, presents a topical collection that encapsulates IAH's 2022 'Year for Groundwater'.

(1) Assunção, P., Galvão, P., Lucon, T., Doi, B., Fleming, P., Marques, T., & Costa, F. (2023). Hydrodynamic and Hydrodispersive Behavior of a Highly Karstified Neoproterozoic Hydrosystem Indicated by Tracer Tests and Modeling approach. Journal of Hydrology, 619, 129300. <https://doi.org/10.1016/j.jhydrol.2023.129300>

(2) Balestra, V., Vigna, B., De Costanzo, S., & Bellopede, R. (2023). Preliminary investigations of microplastic pollution in karst systems, from surface watercourses to cave waters. Journal of Contaminant Hydrology, 252, 104117. <https://doi.org/10.1016/j.jconhyd.2022.104117>

(3) Maurice, L., Farrant, A. R., Mathewson, E., & Atkinson, T. (2023). Karst hydrogeology of the Chalk and implications for groundwater protection. Geological Society, London, Special Publications, 517(1), SP517-2020. <https://doi.org/10.1144/SP517-2020-267>

(4) Petitta, M., Kreamer, D., Davey, I., Dottridge, J., MacDonald, A., Re, V., & Szócs, T. (2023). Topical Collection: International Year of Groundwater—managing future societal and environmental challenges. Hydrogeology Journal, 1-6. <https://doi.org/10.1007/s10040-022-02587-1>

(5) Yue, F. J., Li, S. L., Waldron, S., Oliver, D. M., Chen, X., Li, P., Peng, T., & Liu, C. Q. (2023). Source availability and hydrological connectivity determined nitrate-discharge relationships during rainfall events in karst catchment as revealed by high-frequency nitrate sensing. Water Research, 231, 119616. <https://doi.org/10.1016/j.watres.2023.119616>

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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