

From:

Peter Malik

June 2022 KC NEWS



**Karst
Commission**

The logo for Eurokarst, featuring the word 'eurokarst' in a lowercase, sans-serif font. A blue water drop with a white star inside is positioned between the 'o' and 'k'.

EUROKARST 2022 Malaga: 22–25 June 2022 – postponed 50th KC anniversary celebration and many more interesting things

The top IAH Karst Commission conference, EUROKARST 2022 in Málaga, Spain, is definitely behind the doors.

All KC members and friends are invited to join us at the conference and celebrate with us. The conference lasts from Tuesday 22 June to Saturday 25 June 2022, and there are several highlights that KC members and friend should definitely not miss:

Wednesday 22 June 2022 18:00 CET: *Water tracing initiative* session by our member Philippe Meus.

Thursday 23 June 2022 18:00 CET: IAH Karst Commission meeting celebrating 50th anniversary including introductions by our friends Zoran, Philippe, Nico, Jim and George.

If not able to travel to Málaga, try to use the **MS Teams link** for online meeting provided by the organizers:

https://teams.microsoft.com/l/meetup-join/19%3ameeting_YzJhMTk1NjktMzgyMy00ZG00LTk4M2MtMzFhNmEzNTEwYmJI%40thread.v2/0?context=%7b%22Tid%22%3a%22e7f53f3f-636b-43ad-807e-57c966ff7db8%22%2c%22Oid%22%3a%225f1b5a37-9172-4d39-8d1b-be8fe2bac420%22%7d

If intended to join, use of Google Chrome is recommended.

Thursday 23 June 2022 15:00 CET: *Early career karst hydrologic modelers meeting* by our associated member Daniel Bittner.

Thursday 23 June 2022 15:00 CET: *Round table* "Groundwater in karst aquifer: From research to sustainable management" chaired by our member Marco Petitta.

Wednesday 22 June 2022 – Friday 24 June 2022: *YKRP – young karst researcher prize competition*, encouraging and promoting young scientists in the field of karst hydrogeology.

Friday 24 June 2022 16:45 CET: Closing and Awards Ceremony with gratitude to the founding KC members Youan Daoxian, Derek Ford and Petar Milanović and also awarding a prize to a young karst researchers.

Group members who attend the conference and are willing to help judge student lectures in order to receive the "Outstanding Lecture Award" are asked to contact Peter or Avi before or at the beginning of the conference.

The organizers are doing their best to prepare a nice attractive conference on karst hydrology and carbonate reservoirs, and here are some other interesting events:

- Monday 20 June – Tuesday 21 June: Hydrokarst Courses,
- Monday 20 June: KARMA project meeting,
- Tuesday 21 June: Young researchers meeting: Sharing with you my karst problem,
- Saturday June 25: post-conference field trip,

General programme framework can be found in: http://www.eurokarst.org/wp-content/uploads/2022/06/eurokarst_programme.pdf;

detailed programme can be found here: http://www.eurokarst.org/wp-content/uploads/2022/06/Eurokarst_2022_Programme.pdf; all you need to know about EUROKARST 2022 in Malaga is on the conference website <http://www.eurokarst.org>.



Willingness to donate: participation of young students at KC meetings

We repeatedly ask mentors and advisors to voluntarily provide financial assistance to students

and young scientists interested in joining Karst Commission meetings. Those interested will be able to donate during the Malaga conference (Co-chair Avi Burg will coordinate the donations). Criteria for eligibility and rules funding for young scientist to attend KC meetings can be found on <https://karst.iah.org/funding-for-young-scientists-to-attend-conferences>.

Werner Kaess – author of “Tracing Technique in Geohydrology” had passed away

Attached are words in his memory written by Ralf Benischke:

Prof. Dr. Werner Käss was born on 6th June 1924 and passed away on 26th April 2022, at almost 98 years of age in his home in Umkirch near Freiburg, Germany. Although not a member of the IAH Karst Commission, he was an outstanding karst scientist who conducted karst hydrogeology research with special emphasize on tracer methodologies. In 1992, he published a textbook in German “Geohydrologische Markierungstechnik”, with a 2nd edition in 2004. The book was translated to English in 1998 with the title “Tracing Technique in Geohydrology” (published at A.A. Balkema). For many years, and long after his retirement, he organized and participated in numerous tracing experiments. An overview on his life and scientific career is given in Goldscheider & Goepfert (2009) Hydrogeology Journal, 17 (6), 1543-1546.

(https://doc.rero.ch/record/18192/files/Goldscheider_Nico_-_A_conversation_with_Werner_Kaess_Germany_about_his_20100511.pdf)



Prof. Käss was actively interested in the science of karst hydrogeology up to his last year of life. His last publication was in 2021 - a book about the karst hydrogeology of the Danube-Aach-System, a region, where, in 1877, the first successful Uranine (Na-fluorescein) tracer test was conducted. Prof. Dr. Käss was honorary member of the Austrian Association for Hydrogeology and of the Deutscher Heilbäderverband e.V. (German Spa Association).

PhD position in Tallinn University (Estonia)

Tallinn University (Estonia) is offering the PhD topic "Dissolved organic carbon dynamics in groundwater-dependent water ecosystems under the impact of climate change" for Complex Systems in Natural Sciences doctoral studies 2022/2023 admission. The proposed PhD project focuses on the dynamics of dissolved organic matter in surface water and shallow groundwater browning phenomenon driven by global warming. The main tasks of the project are:

- to conduct thorough quantitative and qualitative research on selected study sites. Including monitoring of surface and groundwater hydrodynamics, water chemistry (DOC, major ions, Ntot, water isotopes, trace elements, artificial tracers, etc.);
- to evaluate DOC transport and mixing in surface water and shallow groundwater;
- to provide input data and take part in modelling the interaction between groundwater and surface water in coupled models;
- to assess the impacts of climate change on surface water and groundwater ecosystems;
- to compare the potential impact of different climate scenarios on the DOC balance in surface and groundwater.

Supervisors: PhD Jaanus Terasmaa, jaanus.terasmaa@tlu.ee; PhD Oliver Koit, oliver.koit@tlu.ee

Application deadline: 30th June 2022

More information on this PhD programme: <https://www.tlu.ee/en/lti/complex-systems-natural-sciences-phd>

Karst photos for Karst Commission webpage

We continue to look for photos of karst, groundwater in karst and karst hydrology for use on our website from KC members and friends (with appropriate credit given for the photos used). The aim is to place them on the IAH Karst Commission webpage, so that "every karst area of the world shall be covered...". If you are willing to cooperate, please send them to karstcommissioniah70@gmail.com.

Just to remind you: 2022 = International Year of Groundwater + International Year of Caves and Karst

Keep in mind that at the moment karst hydrogeologists can enjoy both International years, i.e., Caves and Karst (inherited due to pandemic times) (see <http://iyck2021.org>) and Groundwater (announced by the UN-Water at its 30th meeting in Rome).

New papers recommended by the Karst Commission

Sarker, S.K., Fryar, A.E. (2022). Characterizing Hydrological Functioning of Three Large Karst Springs in the Salem Plateau, Missouri, USA. *Hydrology* 2022, 9, 96. <https://doi.org/10.3390/hydrology9060096>

Shah, R.A., Jeelani, G., Yadav J.S., Rai, S.K. (2022). Hydrogeochemical and stable isotopic evidence to different water origins of karst springs in the western Himalayas, India. *Environmental Earth Sciences* (2022) 81:297; <https://doi.org/10.1007/s12665-022-10397-7>

Qin, S., Li, X., Wu, P., Li, Q. (2022). Spatial–temporal variations and multi-statistical analysis of contaminants in the waters affected by acid-mining drainage in Karst area: a case of coal-mining area in Zhijin County. *Environmental Earth Sciences* (2022) 81:289; <https://doi.org/10.1007/s12665-022-10368-y>

A new interesting paper to those interested in Hydraulics of water wells:

Houben, G. J., & Kenrick, M. A. (2022). Step-drawdown tests: linear and nonlinear head loss components. *Hydrogeology Journal*, 30: 1315–1326

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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