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September 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)

Note from the chairs

Next week the IAH Worldwide Groundwater Congress will be held in Capetown, South Africa. To those participating KC members, we send our best wishes for a great, interesting, and safe conference. One of the three chairmen (Avi) will be at the conference and we invite you to talk to him, offer ideas for the future and share a good drink with him.

We are also happy to wish our Jewish friends a Happy Jewish New Year; the holiday will be celebrated on September 16-17.

New members of the KC group

We are pleased to welcome Farooq Ahmad Dar from Kashmir, and Caoimhe Hickey from Ireland as new associate members of the KC Group.

Here is what they wrote about themselves:

Farooq Ahmad Dar

Dr. Farooq Ahmad Dar, Department of Geography and Disaster Management
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Dr. Farooq Ahmad Dar is an Assistant Professor posted at the Department of Geography and Disaster Management, University of Kashmir. He has done his Ph.D. in the field of karst hydrogeology from CSIR-National Geophysical Research Institute, Hyderabad, and the University of Hyderabad. Dr. Dar has a good academic and research record and has published more than 20 research papers and book chapters in reputed and peer-reviewed national and international journals. He has also presented his work at many national and international conferences. His research interests include and are not limited to karst, hydrogeology, groundwater modeling, environmental studies, climate change, hazard and vulnerability studies, RS/GIS, impacts of human activities on water resources, etc. A few of his publications include:

- Farooq A. Dar, Jerome Perrin, Shakeel Ahmed. Groundwater recharge in Semi-arid Karst context, using stable Water Isotopes. Groundwater for Sustainable Development, 2021. Elsevier.
- Riyaz A Mir, Farooq A Dar, Gh. Jeelani, 2021. Chemical weathering in River Jhelum and its tributaries, Kashmir Basin, western Himalaya. Ed: Water, Cryosphere, and Climate Change in the Himalayas, A Geospatial Approach. Publisher: © Springer Nature Switzerland AG 2021.
- Tanvi Arora, Taufique Warsi, Farooq A. Dar and Shakeel Ahmed, 2020. Electrical imaging of karst terrene for managed aquifer recharge: A case study from Raipur, central India. Journal of Earth System Science, 130 (14), 2-14.
- Farooq A. Dar. Hydrogeological aspects of Karst and Cave Science: A case study of Southern India. In Ed. Cave Sciences: Insights from the Indian Subcontinent. National Cave Research and Protection Organization, India. 22/04/2020. ISBN-978-81-939423-0-7.
- Farooq A Dar, Javid Ahmad Ganai, Shakeel Ahmed, M Satyanarayanan, 2017. Groundwater trace element chemistry of the karstified limestone of Andhra Pradesh. India. Environmental Earth Sciences, 76 (20), 673.

- Farooq A Dar, Jerome Perrin, Shakeel Ahmed, Allu China Narayana 2014.
Review: Carbonate Aquifers and Future Perspectives of Karst Hydrogeology in India. Hydrogeology J. 22, 7, 1493–1506.

Caoimhe Hickey

Dr. Caoimhe Hickey is a karst hydrogeologist at the Geological Survey of Ireland (Caoimhe.Hickey@gsi.ie), where she has worked since 2000. During her time there, she has worked on many different projects, including resource and source protection, Ireland's national groundwater vulnerability map, water framework directive delineation and mapping, on EU funded projects such as GeoERA and CatchmentCARE as well as creating and maintaining national maps and databases, such as the national karst landform and national water tracing databases.

She is lucky enough to work predominantly in karst and karst landscapes and has done extensive karst mapping, karst aquifer classification, and dye tracing experiments. She has an Earth Science degree and a PhD in Karst Hydrogeology, both from Trinity College, Dublin. Her passions are all about karst and caves and communicating the science of groundwater to the wider public. In 2018 she edited and co-authored a book on Irish karst called 'Karst of Ireland: Landscape - Hydrogeology - Methods', with Dr. David Drew.

UPCOMING KC EVENTS

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Visual KARSYS GeoModelling Course N17: 4-5 October 2023

The next Visual KARSYS online course N17 will be organized in 2 sessions of 3 hours each.

Wednesday, October 4th, 2023 - from 1 PM to 4 PM*

Thursday, October 5th, 2023 - from 1 PM to 4 PM*

*(GMT+00:00 Time zone)

This workshop is dedicated to the learning of the KARSYS approach through an

application on a pilot site by using the Visual KARSYS web-tool. It is dedicated to geologists and hydrogeologists working in complex environments. Attendees will be introduced to 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.

Course fee: employees CHF 170 / students CHF 120

Contact for registration / questions: info@visualkarsys.com

For the program of the course go to: <https://www.visualkarsys.com/courses>

Water In Sensitive and Protected Areas (WSPA2024) - Pula, Croatia, April 10 - 13, 2024

Our friend Zoran Stevanović delivered a message from Drazen Vouk - President of the "Scientific Committee of the WSPA2024 conference" regarding the forthcoming WSPA conference in Croatia:

Here is his application:

As a member of the Scientific Committee of the 4th International Conference WATER IN SENSITIVE AND PROTECTED AREAS (WSPA2024 Conference), which will be held in Pula from April 10-13, 2024, I would like to present to you the main activities in preparation for the conference.

On the conference website www.wspa2024.org, a SECOND NOTICE about the conference has been published, which provides potential authors and conference participants with relevant information about the conference, including information about: the conference program, thematic areas and conference topics; invited speakers by topic; preparation and submission of abstracts and full papers, opportunities for publication of full papers in international IWA journals (in English) as well as in the journal Hrvatske vode (in Croatian), workshop and round tables that will take place during the conference; about post conference tours (excursions). On the conference website, in the menu: Conference program, you can find: titles of presentations, abstracts, keywords, and a short biographical description of the invited speakers of the conference.

Abstracts submission is still open and **the deadline for submission is September**

30, 2023. I invite you to register in person to attend and submit your abstracts. I would also like to take this opportunity to ask you to forward information about the conference to your colleagues whom you think might be interested in it, as well as to your other professional contacts. The Second Announcement can be downloaded from the conference website (www.wspa2024.org) as a PDF file, and I ask you to forward it to your contacts.

In order to secure your accommodations in a timely manner, I strongly recommend that you register and book your accommodations early. Please note that only a limited number of hotel rooms are available at special rates. Therefore, I recommend that you make a reservation well in advance to avoid higher costs or difficulties in finding suitable accommodation, either at the conference venue or in the surrounding area. You may reserve the first hotel rooms for the conference dates (April 10-13). Later changes can be made without affecting the agreed rates. Abstract submission and attendee registration is online at the conference website: www.wspa2024.org.

Best wishes,

President of the Scientific Committee of the WSPA2024 conference
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Recommended publications

First, we would like to draw your attention to a detailed summary written by an old and respected member of the KC group – Romeo Eftimi together with partners, in which the hydrogeological aspects of urban water supply sources in Albania are analyzed and classified. The water supply sources are summarized in five groups: (a) Wells in alluvial intergranular aquifers; (b) karst springs; (c) wells in karst aquifers; (d) springs in fissured rocks, and (e) mixed water sources. Based on the experience gained, important recommendations are given for a better understanding of the hydrogeological aspects of the water supply systems.

Eftimi, R., Shehu, K. and Sara, F., 2023. Hydrogeological Aspects of the Municipal

Water Supply of Albania: Situation and Problems. Preprints 2023, 2023081491.
doi: 10.20944/preprints202308.1491.v1

Below is a list of recently published articles on various karst aspects all over the world that may be of interest to you. Among the names of the authors, in some of these publications, it is possible to identify members of the KC:

- Milanović, S., Vasić, L., Petrović, B., Dašić, T., Marinović, V. and Vojnović, P., 2023. The Impact on Karst Aquifer Regimes Induced by a Surface Reservoir in Karst through Multiparametric Analyses (Reservoir Bileća—Herzegovina). *Sustainability*, 15(15), 11968.
- Chang, Y., Liu, Y. and Liu, L., 2023. Contrasting hydrological responses to climate change in two adjacent catchments dominated by karst and nonkarst. *Journal of Hydrology* 625, 130013.
- Jukić, D. and Denić-Jukić, V., 2023. An alternative approach to investigation of sediment transport through a karst aquifer. *Journal of Hydrology* 625, 130037.
- Fryar, A.E., Currens, B.J. and Villa, C.S.A., 2023. Hydrochemical Delineation of Spring Recharge in an Urbanized Karst Basin, Central Kentucky. *Environmental & Engineering Geoscience*, Vol. XXIX, No. 3, August 2023, pp. 1-14.
- Chen, L.L., Wang, Z.F., Zhang, W., and Wang, Y.Q., 2023. Characteristics, numerical analysis and countermeasures of mud inrush geohazards of Mountain tunnel in karst region. *Geomatics, Natural Hazards and Risk*, 14(1), 2242691.
- Umutoni, M., Selemani, J.R., Rwiza, M.J. and Wali, U.G., 2023. Hydrogeochemical similarities and groundwater-surface water interactions for the karst hydrological system of northwest Rwanda. *Arabian Journal of Geosciences*, 16(8), 483.

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.