

[Test] April KC News

1 message

Avi <burg@gsi.gov.il>

Fri, Apr 19, 2024 at 8:36 PM

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April 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)

Note from the chairs

This news file is the last one written and sent by Avi Burg who served as co-chairman in charge for the last 16 months. Avi replaced co-chairman Peter Malík and his responsibilities now pass to Ben Tobin, the last co-chairman of the trio. Recently, Ben was also selected to be the Director of the National Cave and Karst Research Institute (NCKRI).

We wish Ben an enjoyable and fruitful period and success in both positions!



Ben is expected to finish his position as the co-chairman in charge at the end of August 2025, and although it is a bit too early, we call on members who want to contribute to the group to be ready to take responsibility and lead the group (one co-chair represents Europe and Africa, one Asia and Oceania, and one the Americas).

Problems can occur when the database changes hands. That's why we ask members who suddenly don't receive the KC news (May onwards) to write to Ben or Avi and we will fix the problem.

We look forward to meeting you all in Rome in two months and in Davos in five months (see details below). 41 abstracts were submitted to the three Karst sessions that will be held in Davos... You are invited to join these sessions and be exposed to new karst studies around the world.

New members of the KC group

We are pleased to welcome Prof. Abe Springer from Northern Arizona University, USA, Dr. Vincent Bailly-Compte from the BRGM in Montpellier, France, and Mr. Marlon Ccopa Alegre from Peru as new associate members of the KC Group.

Here is what Abe wrote about himself:

Email: abe.springer@nau.edu

Abe Springer is Professor of Ecohydrogeology and was the Inaugural Director of the School of Earth Sciences and Environmental Sustainability at Northern Arizona. In the Fall of 2007, he was the Fulbright Visiting Chair of Water and Environment at the University of Lethbridge, Alberta, Canada studying the ecohydrology of springs of Western Canada. In 2022, he was the Birdsall-Dreiss Distinguished and LaMoreaux International Lecturer for the Hydrogeology Scientific Division of the Geological Society of America. Since arriving at NAU in 1994, he has taught courses in hydrogeology, geology of Arizona, environmental geology, applied geology, groundwater modeling, contaminant transport modeling, university colloquium, and others. Abe and his

students study local and regional groundwater flow systems and human impacts on them, apply principles of sustainability to aquifer management through models, quantify the hydrological function of groundwater-dominated ecosystems, the role of land-use change and disturbance on groundwater flow systems, study karst hydrogeology, and restoration of riparian ecosystems.



One widely used and highly cited article by Abe with Lawrence Stevens is worth mentioning here:

Springer, A.E., and Stevens, L.E., 2009. Spheres of discharge of springs. Hydrogeology Journal, V. 17: 83–93. <https://doi.org/10.1007/s10040-008-0341-y>

In this paper, 12 spheres of discharge of springs are defined, sketched, displayed with photographs, and described relative to their hydrogeology of occurrence, and the microhabitats and ecosystems they support.

Here is what Vincent wrote about himself:

Email: v.bailly-comte@brgm.fr

Vincent Bailly-Comte graduated in 2008 as a civil engineer from the University of Orleans, a master's degree in hydrology from the University of Avignon (France), and a Ph.D. in hydrology from the University of Montpellier (France). He is a hydrologist and expert in the field of karst hydrology, with a focus on vulnerability assessment based on dye tracing and monitoring of natural fluorescence of organic matter. He is in charge of the Fontaine de Nîmes observatory (France) dedicated to the analysis of the transport of natural dissolved organic and particulate matter (SNO karst network, <http://www.sokarst.org>).

Main Fields of expertise:

- Karst hydrogeology: hydrodynamics and transfer processes,
- Groundwater dating and Lumped Parameter Models,
- Time series analysis,

- In-situ optical monitoring: natural fluorescence of organic matter and artificial tracing,
- Surface water/groundwater interactions,
- Role of karst in flash flooding,
- Role of groundwater on the nutrient balance of coastal lagoons,
- Saline intrusion and coastal aquifers,

[Vincent Bailly-Comte - Google Scholar](#)

[Vincent Bailly-Comte \(0000-0003-2352-1821\) \(orcid.org\)](#)



Here is what Marlon wrote about himself:

Email: 0611407106@uma.es

I am Peruvian, and a postgraduate student at the University of Málaga (Málaga, Spain). I have worked so far in projects related to hydrogeology and hydrogeochemistry in my country, in a specific project in which we tried to characterize karstic aquifers in the Andean high mountains during the Peruvian geological survey. In the master, I am currently studying karst from a more scientific point of view and I am interested in the subject and aim to bring it to a master's thesis. I am also an AIH student member in both the Spanish group (Member Number: 144512) and the Peruvian group. Additionally, I have been a member of the Malaga underground exploration group Caving and the Andalusian Federation of Caving and Canyoneering since this season (2024). My goal is clear: to acquire independence and training to carry out hydrogeological explorations in poorly accessible environments such as caves, wells, filtering galleries, and with what I will acquire in my master's degree and with the professional experience I have gained in my country, to be able to reproduce all this knowledge when I return to Peru.



karst is fun but
can be
dangerous

See the attached photo
from the Alps taken by our
member Nico Goldscheider
during a field trip...*karst is
fun but can also be
dangerous!!!*



UPCOMING KC EVENTS



Rome, June 10th-14th 2024

Eurokarst 2024

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

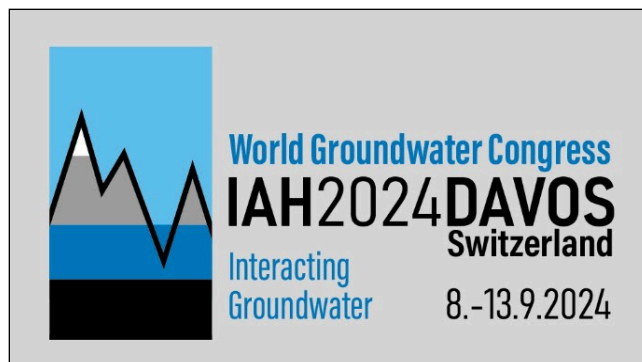
Pay attention to this message from the organizers:

“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, on June 11th, at 18:00. More details about the meeting will be provided in the following KC News.

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

Key dates: 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>

Our friend Nico Goldscheider will lead a field excursion to karst phenomena in the Alps... here is a photo taken by Nico of one of the places Nico plans to bring the group (Mt. Sulzfluh karst massif").



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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 Rosario's invitation that cannot be refused:

MAN AND KARST – CIRS Ragusa

Join us for an incredible exploration of karst landscapes at Man and Karst 2024 in Ragusa, Sicily! From June 24th to June 29th, 2024, immerse yourself in the dynamic relationship between humanity and karst environments against the backdrop of Ragusa's captivating historical setting.

Embark on a five-day journey filled with insightful discussions, engaging presentations, and hands-on experiences, where we'll delve into the cultural, ecological, and scientific dimensions of karst terrain.

At Man and Karst 2024, you'll have the chance to:

- 🔍 Explore Sicily's diverse karst formations, including fluviokarst canyons, gypsum caves, and volcanic lava tubes.
- 🗣️ Engage in thought-provoking discussions led by experts in geology, ecology, anthropology, and conservation.
- 🌿 Discover the rich biodiversity and cultural heritage preserved within Sicily's karst landscapes.
- 🤝 Connect with enthusiasts, researchers, and practitioners from around the world, fostering lasting friendships and collaborations.

Our carefully curated program offers a blend of academic sessions, field excursions, workshops, and networking events suitable for all interests. Whether you're a seasoned researcher, a passionate explorer, or simply curious about karst terrain, there's something for everyone at Man and Karst 2024.

Accommodation options in Ragusa cater to every need and budget, ensuring a comfortable stay during your exploration. Enjoy the Mediterranean sunshine and warm weather of Sicily in June, perfect for outdoor activities and cultural experiences.

Indulge your senses with Sicily's renowned enogastronomic delights, from savory street food to exquisite regional cuisine, paired with fine local wines.

Man and Karst 2024 has received the patronage of FSE, underscoring its significance in the scientific and cultural community.

For more information and registration, visit the [official event website](<https://cirs-ragusa.org/blog/man-and-karst-2024/>). Don't miss this opportunity to be part of an unforgettable journey into Sicily's karst realm at Man and Karst 2024!

#ManAndKarst2024 #Sicily #KarstExploration #GeologicalHeritage #CulturalDiscovery #IAHKarstCommission



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, as well as the information about discounted lodging and meals, and public transportation to Ragusa Ibla.

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

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Karst and Caves, 2024 – Perm – Kungur, Ural region, Russia

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.

For more details see the invitation letter:

[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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The 31st 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/>

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The 37th 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 is already closed.

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

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

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4th European Regional Conference of IAEG (EUROENGEО 2024)

The conference will be held in Dubrovnik, Croatia, between October 8 - 12, 2024, and will include lecture sessions and excursions.

For more details see: <https://www.euroengeo2024.com/>

Next visualkarsys courses

Here is a message from Arnaud Malard regarding upcoming courses:

The next dates for Visualkarsys & GeoModelling courses are:

- June 10th, 2024 - Visualkarsys - EuroKarst preconference course - Rome,
- June 19-20th, 2024 - GeoModelling - Online course,
- September 25th, 2024 - Visualkarsys "Advanced" - Online course,
- October 16-17th, 2024 - Visualkarsys - Online course,

The courses are aimed at geologists and hydrogeologists working on "complex" geological environments or "heterogeneous" aquifers. They provide access to the online tool [visualkarsys.com](https://www.visualkarsys.com) for their academic or applied projects. [visualkarsys.com](https://www.visualkarsys.com) has over 1,400 users and a large network of specialists worldwide.

For more details on the courses see: <https://www.visualkarsys.com/courses>

Contact for registration / questions: info@visualkarsys.com

In addition, you are invited to have a look at the visualkarsys webinar, which was recorded during the EuroGeoSurveys GMMEG Group Webinar, on October 12th,

2023:

<https://www.youtube.com/watch?v=5892kiqPA5g>

Recommended publications

This time we bring 17 very recent articles, each from a different country on the globe (Afghanistan, Austria, Brazil, Czech, China, Croatia, France, Germany, Greece, India, Indonesia, Iran, Italy, Slovenia, Spain, Tunisia, USA):

- Zaryab, A., Farahmand, A., Jafari, Z., Ali, S., Alijani, F. and Nassery, H.R., 2024. *Geochemical evolution of spring waters in carbonate dominated aquifer in Upper Shirin Tagab sub-basin, northern Afghanistan. Groundwater for Sustainable Development*, V. 25, 101102.

<https://doi.org/10.1016/j.gsd.2024.101102>

- Bauer, C. and Wagner, T., 2024. *From landform inventories to landscape evolution?-Karst development in the Central Styrian Karst (Austria). Geomorphology*, V. 447, 109024.

<https://doi.org/10.1016/j.geomorph.2023.109024>

- Gonçalves, T.D.S., Klammler, H. and Bastos Leal, L.R., 2024. *Geospatial Analysis of Transmissivity and Uncertainty in a Semi-Arid Karst Region. Water*, V. 16(5), 780.

<https://doi.org/10.3390/w16050780>

- Spano, M. and Riha, J., 2024. *Modeling hazards impacting the flow regime in the Hranice Karst due to the proposed Skalička Dam. Natural Hazards and Earth System Sciences Discussions*, 2024, 1-28.

<https://doi.org/10.5194/nhess-2024-21>

- Wang, S., Yan, Y., Zhao, Y., Fu, Z. and Chen, H., 2024. *Co-evolution among soil thickness, epikarst weathering degree, and runoff characteristics on a subtropical karst hillslope. Journal of Hydrology*, V. 628, 130499.

<https://doi.org/10.1016/j.jhydrol.2023.130499>

- Stroj, A., Lacković, D., Sasowsky, I.D., Bajo, P. and Glumac, B., 2024. *The application of cave morphological and sedimentary deposit investigations to*

unravel tectonic history and landscape evolution: Insights from Veternica Cave, Medvednica Mountain, Croatia. Geomorphology, V. 446, 109000.

<https://doi.org/10.1016/j.geomorph.2023.109000>

- Gouy, A., Collon, P., Bailly-Comte, V., Galin, E., Antoine, C., Thebault, B. and Landrein, P., 2024. KarstNSim: A graph-based method for 3D geologically-driven simulation of karst networks. *Journal of Hydrology*, 130878.

<https://doi.org/10.1016/j.jhydrol.2024.130878>

- Fuchs, M., Reinartz, H., Torizin, J., Balzer, D., Kuhn, D., Schüßler, N., Hahne, K., Nix, T. and Gunkel, C., 2024. Mapping karst depressions and sinkholes in anthropogenically influenced areas.

<https://doi.org/10.21203/rs.3.rs-3869389/v1>

- Nanou, E.A., Perdikaris, K., Tserolas, P. and Zagana, E., 2024. Recharge Assessment in Greek Karst Systems: Methodological Considerations and Implications. *Water*, V. 16(4), 568.

<https://doi.org/10.3390/w16040568>

- Nisa, F.U. and Umar, R., 2024. Spring water system classifications and their methods of study: An overview of the current status and future perspectives. *Journal of Earth System Science*, V. 133(1), 10.

<https://doi.org/10.1007/s12040-023-02218-7>

- Naufal, M., Adji, T.N., Haryono, E. and Cahyadi, A., 2024. Assessing karst landscape degradation based on the void development of karst aquifers in Gunungsewu, Indonesia. *Journal of Degraded and Mining Lands Management*, V. 11(3), 5707-5715.

[DOI:10.15243/jdmlm.2024.113.5707](https://doi.org/10.15243/jdmlm.2024.113.5707)

- Haghiri, M., Raeisi, N., Azizi, R., Shabani, K. and Ghadiri, M., 2024. Evaluation of karst aquifer development and karst water resource potential using fuzzy logic model (FAHP) and analysis hierarchy process (AHP): a case study, North of Iran. *Carbonates and Evaporites*, V. 39(2), 11.

<https://doi.org/10.1007/s13146-024-00925-w>

- *Filippini, M., Segadelli, S., Dinelli, E., Failoni, M., Stumpp, C., Vignaroli, G., Casati, T., Tiboni, B. and Gargini, A., 2024. Hydrogeological assessment of a major spring discharging from a calcarenitic aquifer with implications on resilience to climate change. Science of The Total Environment, V. 913, 169770.*

<https://doi.org/10.1016/j.scitotenv.2023.169770>

- *Verbovšek, T., 2024. Analysis of Karst Surface Anisotropy Using Directional Semivariograms, Slovenia. Pure and Applied Geophysics, 1-13.*

<https://doi.org/10.1007/s00024-023-03411-x>

- *Yanes, J.L. and Moral, F. 2024. Spatial variability of hydrochemistry and environmental controls in karst aquifers of the southern Iberian Peninsula: Implications for climate change impact assessment. Science of the Total Environment, V. 907, 168141.*

<https://doi.org/10.1016/j.scitotenv.2023.168141>

- *Hamed, Y., Hadji, R., Ahmadi, R., Ayadi, Y., Shuhab, K. and Pulido-Bosch, A., 2024. Hydrogeological investigation of karst aquifers using an integrated geomorphological, geochemical, GIS, and remote sensing techniques (Southern Mediterranean Basin—Tunisia). Environment, Development and Sustainability, V. 26(3), 6943-6975.*

<https://doi.org/10.1007/s10668-023-02994-8>

- *Aggarwal, S., Kuehner, K.J. and Magner, J., 2024. Estimating Riparian Water Movement in an Incipient Karst Landscape—Minnesota, USA. Geographies, V. 4(1), 83-94.*

<https://doi.org/10.3390/geographies4010006>

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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