

NEWS

DECEMBER 2023

& information

IAH - THE WORLD-WIDE GROUNDWATER ORGANISATION

Furthering the understanding, wise use and protection of groundwater resources throughout the world

In this issue:

IAH & other resources

Meeting & event reports

Chapters, commissions
& networks

Regular IAH
announcements & news



INTERNATIONAL
ASSOCIATION OF
HYDROGEOLOGISTS



World Groundwater Congress
IAH2024 DAVOS
Interacting
Groundwater
Switzerland
8.-13.9.2024



IAH WORLD GROUNDWATER CONGRESS 2024

Save the date! The 2024 IAH World Groundwater Congress, organised by the Swiss Society of Hydrogeology and the Centre for Hydrogeology and Geothermics of the University of Neuchâtel, takes place in Davos, Switzerland, from 08-13 September 2024. Page 5

IAH Groundwater Congress in Cape Town

This year's IAH World Groundwater Congress took place in Cape Town, South Africa in September. The congress was attended by 500 delegates, and was a huge success. A big thank you goes out to the organisers and attendees. Page 10

IAH membership renewals time

It's that time of the year for IAH membership renewals! We thank all our members for their continued support. If you're not yet a member, you can join us now to help IAH support and represent the groundwater community across the world. Page 9

Find us at <https://iah.org>. Connect by email info@iah.org and on social media:



@iahgroundwater



@iahgroundwater



Find IAH groups



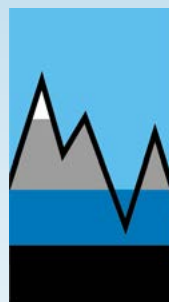
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IAH WORLD GROUNDWATER CONGRESS 2024

Interacting Groundwater

08-13 September 2024
Davos, Switzerland

WWW.IAH2024DAVOS.ORG



World Groundwater Congress
IAH2024 DAVOS
Switzerland
Interacting
Groundwater
8.-13.9.2024

Key Dates

15 Dec 2023 - 29 Feb 2024
Abstract Submission

31 May 2024
Early bird registration closes



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Advertising & copy information

IAH News and Information is published 3 times a year. It is distributed as an insert in Hydrogeology Journal and is also published via IAH's website and email alerts. It reaches all members and supporters of the International Association of Hydrogeologists – around 8000 people – and can also be freely downloaded by individuals worldwide for personal/not for profit use.

We accept commercial advertisements. Advertising rates are €300 per full-page advert and €200 per half page. These rates apply for one issue. If you take an advert in two successive issues then the third is offered free of charge.

Corporate members, supporters and sponsors are offered special rates. Contact us for more details.

We are also happy to consider groundwater related articles from our members and supporters.

Copy dates are 1 March, 1 June and 1 October.

Email info@iah.org for further details.

Introduction

As we draw towards the end of 2023 we hope that you have had a successful year. We've certainly had a busy time, with staff changes, governance and other strategic reviews, and a very successful congress. We've also changed our newsletter, which you'll see is shorter but has additional information online if you want to find out more. We hope that you will like it but do tell us what you think.

Congratulations and thanks to all involved in organising – and participating in – our 50th World Groundwater Congress. It was a great success, and informative and enjoyable for all 500 delegates. We were pleased to be able to help several colleagues from across Africa to attend and share their experience with colleagues from around the world.

Among the absorbing side-meetings, two had particular importance for IAH in developing its role in the global groundwater community and wider society. We made progress in establishing working groups on UN liaison and on more general education and outreach, as several members expressed interest in contributing. We hope that this will include being involved in the Hydrogeodia initiative, originally started in Spain. We hope that you and your national chapters will be able to run your own 'hydrogeology day' in 2024, to help observe the UN World Water Day in March.

Next year is election year for IAH's council. Perhaps you could contribute to the running of your Association and if so we'll be looking forward to receiving your nomination in January. The election results will be announced during the General Assembly at next year's congress in Switzerland. Make a date with Davos in 2024!

Please do renew your subscription for IAH membership. We believe that IAH has a crucial role in both supporting and representing the international groundwater community across the world – and that's because so many of you, in 138 countries now, are members of IAH.

Very best wishes for 2024.

SECRETARIAT

From our President



Dear members, dear colleagues

I hope this message finds you all in good health and having professional success in advancing the knowledge, protection, and wise use of groundwater. A big thank you to the organizers of the International Association of Hydrogeologists' 50th Worldwide Groundwater Congress in Cape Town, South Africa this last September. The Congress was simply excellent. It was well attended, the technical sessions were great and varied, and the associated side sessions, exhibitions, award ceremonies, luncheons, gala dinner, and entertainment were all superb. All-in-all it was a remarkable gathering of the hydrogeologic community from around the world.

Mark your calendars for the next IAH Congress to be held at a beautiful venue in Davos, Switzerland, September 8-13, 2024. And in 2025, the World Groundwater Congress will travel to Melbourne, Australia. Bids are now open for the 2026 Congress so consider having your nation hosting that gathering three years from now!

2024 also marks an election year for IAH Council. The Council is made up of Regional Vice Presidents and an Executive Committee, and every 4 years the IAH Council undergoes elections. Nominations for these positions are open to all IAH members. We particularly encourage members from under-represented groups to be nominated in line with our efforts to be a diverse, equitable and inclusive organization. The Council responsibilities include guiding IAH by reviewing and approving the way forward for our volunteer, scientific, educational, and charitable association.

The elections will take place in the months before the 2024 Congress, with a call for nominations going out soon. The Council members include: the IAH President; the IAH Secretary-General; the IAH Vice President for Finance & Membership (who also serves as Treasurer); the IAH Vice President Programme and Science Coordination; and 8 Regional Vice Presidents (a. North America, b. Latin America and the Caribbean, c. Western and Central Europe, d. Eastern Europe and Central Asia, e. Asia, f. Australasia and the Pacific, g. Sub-Saharan Africa, and h. Middle East and North Africa).

Council members can serve up to 2 terms (eight years) if re-nominated and elected for a second term, (except the President who serves only one and becomes Past President after a 4-year term as President). IAH is proud to be a volunteer, scientific, educational, and charitable organization, founded in 1956, with thousands of members in over 130 countries. Please consider nominating a person to guide our association into the future and/or consider running for a Council Position yourself.

Best wishes for a great upcoming holiday season and prosperous 2024, with hopes for peace returning throughout the world

All good wishes,

Dave Kremer



IAH 2023 General Assembly

IAH President Prof David Kreamer opened the meeting and thanked all members who were able to attend the meeting at the Cape Town International Convention Centre and online. The minutes of the 20th Annual General Meeting held on 20th September 2022 (see <https://iah.org/members/iah-meetings>) were accepted. Dave was pleased to present the Presidents' Award to Carlos Molano, former IAH Vice President for Latin America and the Caribbean.

Secretary General Jane Dottridge described progress with implementing the Forward Look programme and developments in IAH's international liaison activities. She urged more members to join in the Association's activities, including the 'Hydrogeodia' initiative, and highlighted IAH's developing education and outreach strategies. She presented the Distinguished Associates Award to Abou Amani, Director of UNESCO's Division of Water Sciences, and James Sauramba, Executive Director of the Southern African Development Community (SADC) Groundwater Management Institute.

Vice President for Programme and Science Coordination Marco Petitta highlighted successes for IAH's Commissions and Networks, including a topical collection of papers published in Hydrogeology Journal and books on Urban Groundwater, 'MAR: Overview and Governance, Groundwater for Sustainable Livelihoods and Equitable Growth', and a special issue in the journal 'Water' on 'Regional Groundwater Flow Concept and Its Potential for Interdisciplinary Application'. There was a new series of

'Technical Insight Papers' and the invitation for interested members to establish a new group on groundwater for water, energy, food and ecosystems (WEFE).

Members voted unanimously for Honorary Members Awards for Antonio Chambel, past IAH President; Viviana Re, Director of the Socio-Hydrogeology Network and co-Director of the Burdon Network; and Alan MacDonald, Director of the Burdon Network.

Vice-President for Finance and Membership Teodóra Szócs was unable to attend the meeting and IAH Executive Manager Ian Davey presented the accounts for the period ended 31st December 2022. Members voted in favour of the proposed revisions to IAH fee categories, which will now be realigned with the classifications adopted by the World Bank, and the associated fees. They also agreed that in the future retired members of IAH should have online access to Hydrogeology Journal, should they wish to retain this benefit.

Ending the meeting, Michael Sinreich of IAH's Swiss National Chapter presented a short video on the next IAH congress, to be held in Switzerland, and urged everyone to 'make a date with Davos in 2024'!

For more information about the AGM, including the video recording and slides, go to <https://iah.org/members/iah-meetings>



IAH World Groundwater Congress 2024, Davos

The IAH World Groundwater Congress returns to Europe in 2024. The Swiss Society of Hydrogeology (SSH) and the Centre for Hydrogeology and Geothermics of the University of Neuchâtel (CHYN) welcome you to Davos in the Swiss Alps from 08-13 September 2024.

Interacting Groundwater

In a rapidly changing world, groundwater is a crucial resource that is under increasing pressure. To anticipate future trends, we need to improve our understanding of how groundwater interacts with rivers, lakes, ecosystems and the cryosphere, and how it responds to extreme events, building on rapid methodological advances. Sustainable groundwater management strategies must take into account the many interactions within the water-food-energy-ecosystems nexus and can only be developed in close cooperation between countries, stakeholders

and the society as a whole. We will facilitate interactions beyond the scientific community, involving members from industry, public administration, as well as international organizations and development agencies, to share knowledge and discuss these challenges.

The Programme

The IAH Congress is well known for its inclusive approach. Building on this spirit, we offer new opportunities for interaction and dialogue, with special possibilities for young hydrogeologists. In addition to parallel sessions covering all major groundwater topics, we will hold plenary debates centered around major groundwater challenges, side-events, short courses and an exhibition to showcase innovative products and solutions. Teaching hydrogeology will also be a topic at the conference.

	SUNDAY 8. SEPT	MON 9. SEPT	TUES 10. SEPT	WED 11. SEPT	THURS 12. SEPT	FRIDAY 13. SEPT
Morning		Opening Session	Plenary		Plenary	Plenary
		Exhibition	Exhibition		Exhibition	Exhibition
		Parallel Session	Parallel Session		Parallel Session	Parallel Session
		Lunch & Posters	Lunch & Posters		Lunch & Posters	Closing Session
		Plenary	Plenary		Plenary	
Afternoon		Posters	Posters		Posters	
		Parallel Session	Parallel Session		Parallel Session	
Evening	Welcome Reception	Networking Events & Commissions	IAH General Assembly		Networking Events & Commissions	
			Networking/ ECHN Event, Commissions		Gala Dinner	

GET INVOLVED

Propose a workshop

Support and exhibit

My thesis in 180s

Share your findings

Attend the conference

My best hydrogeology image

Find out more at
www.iah2024davos.org/#involved



Networking Events

We will continue the dialogue during evening hikes, mountain top dinners, technical visits or cultural events throughout the week, taking advantage of the scenic environment on the doorstep.

Excursions

Thanks to the alpine location, many scenic and scientifically rewarding sites can be reached with minimal travelling. We offer full-day and half-day excursions, which highlight interactions of groundwater with mountain rivers, lakes and the cryosphere, including excursions to high alpine settings. We will use different modes of transportation from hiking, to mountain biking to cable cars, with choices for all levels of mountain skills. The excursions will illustrate the role of groundwater in different domains, from water supply by mountain springs, to spas and tourism, energy production, ecological processes, interactions with infrastructure such as tunnels, to natural hazards. Some excursions will include visits to mineral and thermal springs where delegates can truly immerse in groundwater.

Venue and Further Information

The congress will take place at the world-class Davos congress center. We will offer direct shuttle buses from Zurich Airport.



Photo: Davos Congress.

See you in Davos!

Contact: info@IAH2024DAVOS.org

www.iah2024davos.org



Free registrations for Davos!

IAH is once again offering to cover the cost of registration for delegates from lower income countries and to younger members on lower incomes. The opportunity to apply is open to existing IAH members. A panel will review applications, with preference given to those who have an abstract accepted. To apply, use the following link where you will be asked to respond to a few questions and provide a short personal statement:

https://www.surveymonkey.co.uk/r/51st_Davos

Terms and conditions:

Applications close 11.00pm BST on Friday 31st May 2024. Eligibility is limited to IAH members only (2024 dues paid, or on sponsorship programme). Award winners will also be announced in the December 2024 edition of "News and Information".

SECRETARIAT



Photo: Destination Davos Klosters/Martin Bissig

IAH Council Meeting

IAH's finances continued to be sound, having carried forward £270K as reserves from the end of 2022. Income for 2023 was anticipated to be in line with expectations set out in the budget, though this could be impacted by fluctuations in exchange rates, particularly between sterling and euro. Council proposed that a further programme of expenditure should be prepared under the strategic plan for the period to 2030, to support members and to meet our objectives as a charity. It was agreed that IAH's education and outreach activity should be expanded.

With lower risks from Covid, the Association's 'business as usual' activities had recommenced, resulting in increased expenditure, though all within the agreed budget. There was greater opportunity for IAH's officers to attend key meetings, and a formally agreed loan of €20K had been provided to the Cape Town Organising Committee to help with up-front costs. Offsetting this, our books publisher had transferred £17K to IAH to correct a long-standing underpayment of royalties.

Membership increased from 2022, with 4136 at the time of the Council meeting compared with 3925 in September 2022. There were 290 sponsored members, and 250 students with free membership, with 526 students in total including paid-for memberships.

Council approved a new Network on Groundwater Resources UNECE Classification and Management Network (GRUCMN), to be led by Peter Van Der Keur (GEUS, Denmark). Council proposed that this should be managed closely with the IAH-UN Working Group, once this becomes operational.

It was noted that out of a total of 51 national chapters, 22 were in the West and Central Europe Region. This can sometimes present difficulties in promoting extensive cooperation across the region though the diversity of circumstance and interest is an important asset.

Ian Davey, Executive Manager

Education and Outreach Working Group

At Cape Town we took a further step towards establishing an 'Education and Outreach Working Group,' who will set out a strategy for delivering more support to members, taking account of different needs from students through to continuing professional development across the world.

The aim is to build on what we already achieve through our existing initiatives, with members of the WG helping to both co-ordinate and implement activities. In a side-meeting, several members expressed interest in contributing and made a number of proposals. A separate meeting of the Burdon Network echoed and added to these.

It was felt that the WG should consider both members and wider organisations and society, including engagement with communities. It should seek to involve more young members in the life of IAH, addressing early career needs and providing "a platform to support younger people who try to find their own way but need support". There should be continuing support for student membership.

The strategy should include general education and more specific training opportunities. It was noted that hydrogeology is not being taught in some parts of the world and there was a request for help with developing and extending university programmes. Issues that benefit the wider public should be identified for outreach programmes and community support.

Development and implementation of activities should make use of remote working and online technologies, including webinars, podcasts, social media, videos and radio. There should be support for members from low-income circumstances to participate in conferences and congresses, either in-person or online.

For more information, and to find out how to get involved, visit <https://iah.org/news/education-outreach-working-group>.

Membership news

At the General Assembly in Cape Town, members voted, with no objections, to accept the proposals for IAH fee categories to be updated and realigned with the classification of countries and territories adopted by the World Bank. IAH national chapters and members were invited to comment on the proposed changes earlier in the year, and almost no comments were received. After no increases to subscriptions since 2019, the new categories will mean changes for members in some countries. The changes will be phased so that each category change lasts for 3 years before the next category change. You can see

more details explaining the scheme at <https://tinyurl.com/AGM-2023-Draft-Minutes>. Full details of all country bands can be found at <https://iah.org/join-us/membership-types-and-costs>.

Members also agreed at the AGM that retired member subscriptions should include online access to Hydrogeology Journal (HJ). Currently HJ is not included in this membership category so it's great to be able to offer this new benefit, which will be available to retired members who are not undertaking paid work.

WELCOME

A warm welcome to the 173 new IAH members who joined our Association in the period 23 June - 26 October 2023. View the list of new members at <https://tinyurl.com/IAHMembersOct23>.

Renewals time

We thank all our members for continued support to IAH and the important work of our Commissions, Networks and Chapters. We hope that you will want to maintain your IAH membership and that you will encourage colleagues to join us too.

Those who renew via the UK Secretariat will receive prompts from Sharon Warden in the upcoming weeks. If you renew via your national chapter please expect to receive communication from them as usual.

However you renew, please do provide the small amount of personal information requested as this helps us to understand IAH's membership profile and to tailor our benefits and services. You can do so here: <https://iah.org/members/your-membership>.

If you would like to make a donation in addition to your membership fee this would be most gratefully received. With your help, this year we have sponsored memberships for 296 of our colleagues who would otherwise not have

been able to participate in the Association's activities and to represent IAH across the world. The IAH sponsorship scheme helps us to be the inclusive Association we strive to be.



JOIN US
Support IAH and its global membership in protecting groundwater for people and the environment

The International Association of Hydrogeologists is a scientific, educational and charitable professional membership association for scientists, engineers, water managers and professionals working in groundwater resource planning, management and protection.

Our mission is to further the understanding, wise use and protection of groundwater resources throughout the world.

Members receive a great range of benefits, including *Hydrogeology Journal*, book and conference discounts, printed and electronic newsletters. You will be able to participate in our National Chapters, Commissions & Networks, and share knowledge and experience. We also have attractive and cost-effective schemes that can help you and your staff participate in global groundwater affairs and publicise your company's services.

Corporate membership is designed to provide benefits for your company or institute. You receive 5 individual memberships and 25% discounts on further memberships, discounts on advertising in the IAH News & Information magazine, and at conferences.

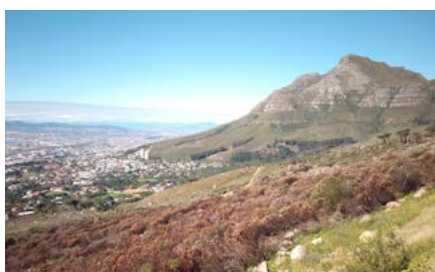
Hydrogeology Journal

IAH Annual Congress 2023, Cape Town

A big thank you goes to the organisers of the IAH's 50th World Groundwater Congress which took place in Cape Town, South Africa, from 18-22 September. The Congress was on the theme of 'A Matter of Scale', and was attended by 500 delegates from more than 50 countries, who experienced a remarkable gathering of the hydrogeology community from around the world. The programme included more than 250 oral presentations, and 98 posters were presented. The field trips and technical sessions were all exceptional.



Several excursions were organised, including a Table Mountain dams hike, Steenbras deep aquifer exploration and a wetlands and winelands tour.



IAH were pleased to be able to help fund the participation of several members, who would not have been able to attend or present papers without the support of the Association: Crisler Ankah (Ghana), Kawawa Banda (Zambia), Lamine Boumaiza (Algeria), Anthony Appiah Duah (Ghana), Adwoba Edjah (Ghana), Mohammad Hammie (Tanzania), Steve Kumwenda (Malawi), Brian Murove (Zimbabwe), Thabang Phori (Lesotho), Moses Souta (Zimbabwe) and Ashwani Tiwari (India). This follows the announcement in our May 2023 Newsletter of the availability of free registrations. Matt Hill (South Africa) won the prize draw for free registration.

Thabang Phori thanked the organisers for a successful congress and told us he was looking forward to submitting an abstract for the IAH congress at Davos next year. Adwoba Edjah was pleased to receive a number of queries from delegates after her poster was presented on the electronic app. Brian Murove just thought it was a real eye opener for groundwater!

We were pleased too that we could contribute to the attendance costs of some members of our Early Careers Network (ECHN) – we thank them too for helping us with the AGM!

During the congress we had a book draw, with the prize going to Jan Makhetha (South Africa). Moses Souta won the prize draw for those who attended the IAH side-meetings for working groups on IAH_UN Liaison, and Education and Outreach.

The end of the congress was marked by the handover of the 'groundwater torch', recently received from China after being replenished following the Wuhan Congress, and now with our Swiss colleagues in readiness for the next congress in Davos.

“ My experience at the 50th IAH Groundwater Congress



The IAH congress in Cape Town provided an excellent platform to learn about several new and essential ideas for minimising the groundwater crisis challenge at regional and global levels. Moreover, it provided a platform to meet some of the most eminent groundwater researchers. Also, I met some researchers from different parts of the world and discussed their ongoing research and future collaborative ideas and possibilities. I also got a chance to participate in the meetings of the Commission and Working Group, Early Career Hydrogeologist Network (ECHN), the IAH AGM and others.

Ashwani Kumar Tiwari

School of Environmental Sciences, Jawaharlal Nehru University (JNU), New Delhi, India

Read more about Ashwani's Cape Town experience at <https://iah.org/about/stories/my-congress-experience>.

”

Awards

Congratulations to this year's IAH award winners, who were announced at the General Assembly during the annual congress in Cape Town in September.

Presidents' Award: The IAH Presidents' Award is given annually to a member who has made outstanding international contributions to groundwater science and to furthering IAH's mission to promote understanding and management of groundwater resources for the benefit of humankind and the environment. This year's recipient is Prof Carlos Molano.

Honorary Members: IAH accords the title of Honorary Member to those who have given exceptional services to the Association over a long period. The candidates are elected, following a recommendation by Council, by a vote

of the General Assembly of the Association. This year's recipients are Prof António Chambel, Prof Viviana Re and Prof Alan MacDonald.

Distinguished Associate Award: The IAH Distinguished Associate Award is presented to a person who is not a groundwater professional but has made an outstanding contribution to the understanding, development, management and protection of groundwater resources internationally. This year's award is given to Dr Abou Amani and James Sauramba.

Find out more about this year's award winners at <https://tinyurl.com/iah-awards-2023>.



Prof Carlos Molano
President's Award



Prof António Chambel
Honorary Member



Prof Viviana Re
Honorary Member



Prof Alan MacDonald
Honorary Member



Dr Abou Amani
Distinguished
Associate Award

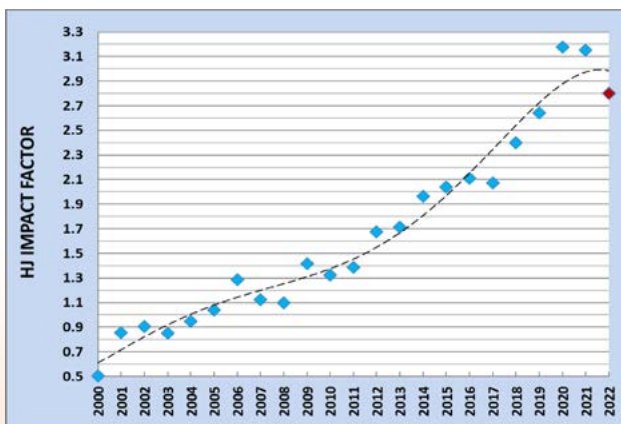


James Sauramba
Distinguished
Associate Award

Hydrogeology Journal: Status Update 2022

Articles published in Hydrogeology Journal (HJ) have a variety of purposes. Some are purely about science, and are intended to be useful to researchers. Other articles are focused on practical understanding of subsurface processes, and are intended to be useful to governments and institutes that develop and manage groundwater systems. IAH efforts support both purposes.

The scientific Impact Factor (IF) indicates the scientific usefulness and value of HJ content. This measure has experienced a significant increase in the past years. The current (2022) IF is **2.8** (red point on graph), a bit lower than last year (**3.151**). The 2022 5-year impact factor is **3.3**.



Impact Factor (IF) History for Hydrogeology Journal

The IF is a measure of the number of times that people who publish articles in scientific journals have cited articles in HJ that provide support for their own work. The rather high IF values indicate that HJ is among the best journals in the hydrology and water resources field, and now that HJ is an established journal, we might expect that the IF will remain rather constant in the future.

Having a good impact factor is only one of the signs that indicate that a journal is useful. HJ also has a very high *Usage Factor* of **428,752** downloads in 2021 (increased from 364,777 downloads in 2020). This is a measure of how many time readers download HJ articles. This means that people read and use HJ content, perhaps for professional and for practical water-resources management purposes, even though many of these users never cite these HJ articles in journal publications that are included in IF counts (which would make the IF even higher). Thus, HJ continues to achieve the IAH goals to serve both the professional/practical and scientific communities in groundwater hydrology.

Summary prepared by Clifford Voss - Executive Editor - Hydrogeology Journal

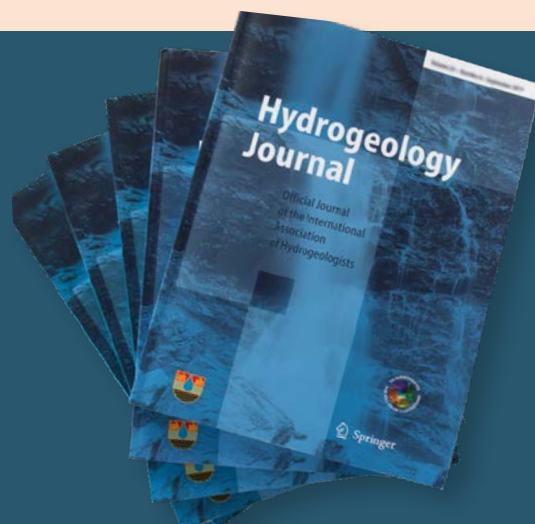
About Hydrogeology Journal

IAH's Hydrogeology Journal is a premier journal for groundwater professionals, with eight issues (about 200 articles) per year.

Hydrogeology Journal is published by Springer Nature. Authors are able to choose whether to publish open access, or publish the article by the no-fee route by which only journal subscribers and IAH members will have full access.

Find out more at:

<https://iah.org/hydrogeology-journal>



Hydrogeology Journal: Foundations (pedagogic) articles

This is just a reminder that 'Foundations' articles are published in the journal occasionally. These articles cover subjects typically encountered in textbooks or taught in (under)graduate courses. The name Foundations was chosen because these subjects form the basis of our science. The aim is to provide a platform that allows fundamental topics to be treated in more detail than what is possible in textbooks. Foundations articles can also clarify common misunderstandings or misconceptions, or provide up-to-date coverage of a subject that has seen substantial recent developments that are not yet covered in textbooks. The educational aspect is a key characteristic of this article type, and a Foundations article is likely to have a strong methodological focus. While it is not impossible for these articles to report on new research

outcomes, they will typically be based on and reference research outcomes published in the literature, at least for the largest part.

The background to Foundations articles is explained in "Editor's Message: Hydrogeology education, textbooks and 'Foundations' articles," *Hydrogeology Journal* (2013), 21(4), pp 735-736, <https://link.springer.com/article/10.1007/s10040-013-0977-0>

A list of these articles is always available on the *Hydrogeology Journal* section of the IAH website: <https://iah.org/hydrogeology-journal>. A summary of the articles published so far is given in the table below.

Author(s) Year, Vol/No, pages DOI	Hydrogeology Journal – Article Title
Post and von Asmuth 2013, 21(4) pp 737-750 https://link.springer.com/article/10.1007/s10040-013-0969-0	Review: Hydraulic head measurements—new technologies, classic pitfalls
Houben 2015, 23(8), pp 1659-1675 https://link.springer.com/article/10.1007/s10040-015-1313-7	Review: Hydraulics of water wells—head losses of individual components
Houben 2015, 23(8), pp 1633-1657 https://link.springer.com/article/10.1007/s10040-015-1312-8	Review: Hydraulics of water wells—flow laws and influence of geometry
Flores and Bailey 2019, 27(1), pp 55-60 https://link.springer.com/article/10.1007/s10040-018-1843-x	Review: Revisiting the Theis solution derivation to enhance understanding and application
Pfannkuch et al. 2021, 29(6) pp 2001-2015 https://link.springer.com/article/10.1007/s10040-021-02363-7	Review: "Jacob's Zoo"—how using Jacob's method for aquifer testing leads to more intuitive understanding of aquifer characteristics

Hydrogeology Journal: Meet the editors – Sue Duncan

Hydrogeology Journal (HJ) has a core team of eight people, and my role is as Technical Editorial Advisor. I am part of the IAH Secretariat, assigned specifically to *HJ*, although I'm involved in other Secretariat matters occasionally.

After graduating in Environmental Science at the University of Plymouth (UK), I found myself at the Water Research Centre (WRC), by virtue of my specialization in hydrology and pollution chemistry. With WRC, investigation of the environmental fate of pesticides took me to northern Italy, where triazine herbicides in groundwater were causing concern. WRC also started research into pesticides in the aquifers of England, and I was launched into a world that combined analytical chemistry, geology, innovative techniques, wet fieldwork, and the ability to answer questions from passing members of the public, such as "Why are you looking down that hole?!" Understanding of groundwater has progressed since then but still has some way to go, and I have always been keen to make a difference in this respect.

After a short spell in consultancy, addressing contaminated land redevelopment and mine drainage, I joined the Environment Agency (EA, Reading). The Thames Region of the EA was one of the first to initiate a baseline groundwater quality monitoring programme, and I was the technical lead on selecting the monitoring sites, creating the long-term sampling regime, handling the results, and producing aquifer characterisation reports. I was also involved in nitrate vulnerable zones and artificial recharge.



I joined IAH in 1995 and became a selection editor for presentations destined for the 27th IAH

Congress in Nottingham. In 2005, I took up the role of Technical Editorial Advisor (TEA) for our IAH journal, *HJ*. It was perfect for me, as I had also qualified in editing and proofreading. Authors submit their manuscripts online, and after the peer-review process has been concluded by the editors, all manuscripts that have been provisionally accepted for publication become my responsibility. The TEA bridges the gap between the role of the journal editors and reviewers (who are mostly not native-English speakers) and the role of the Springer (publisher) copyeditors, who are not scientists. As IAH members will be aware, *HJ* covers a wide range of theoretical and applied subjects related to hydrogeology. I combine my groundwater knowledge and editorial skills to work directly with the authors, many of whom do not have English as their first language either. Together, we ensure their manuscript complies with the journal style and standards, and that the science is clear. It is hugely rewarding to send each manuscript to the publisher, often much improved, along with abstract translations in several languages. So if any IAH members, or non-members, are nervous about submitting a manuscript to *HJ*, they can rest assured that support is available every step of the way.

The *HJ* team and authors are located across the globe, all communicating daily through the internet, so in my spare time I like to leave the office and get out and about. I support adults with autism, and I have recently been a community ambassador for Earth Trust (a local environmental education charity). I enjoy walking and spending time with my family, who have heard so much about IAH over the years that they feel part of the IAH family too!

Commissions and Networks

Commissions and Networks

IAH's commissions and networks contribute to the science of groundwater and undertake outreach, education and training. They run sessions at IAH congresses, co-convene technical meetings and field excursions with other societies, host workshops and training courses and prepare educational and outreach publications.

Find out more about IAH's commissions and networks and make contact with them at <https://iah.org/groups/commissions-networks>.

Transboundary Aquifers Commission

The IAH Commission on Transboundary Aquifers (IAH-TBA) have a new website. Visit <https://tba.iah.org/> for IAH-TBA news, events, publications and resources, and for more details about transboundary aquifers.

The IAH was well represented at the recent global workshop "Conjunctive Management of Surface Water and Groundwater: National to Transboundary Level", hosted the UN Economic Commission for Europe. Alice Aureli (representing the IAH) gave a keynote on the global water agenda, Shammy Puri presented the science to policy background, and Karen Villholth summarised the findings of a study on the presence of conjunctive management in transboundary water treaties. View the full workshop report, including links to presentations and a Technical Note setting out the key elements of conjunctive water resources management at <https://iah.org/news/workshop-conjunctive-management>.

Socio-Hydrogeology Network

The Socio-Hydrogeology Network (IAH-SHG) annual general meeting took place in Cape Town on Tuesday September 19th, during the 50th IAH Congress.

During the meeting participants highlighted the need

for creating more occasions for interaction about socio-hydrogeology (new projects, research etc) and related topics (e.g. citizen science, community engagement, international cooperation link between science and society, indigenous knowledge, decolonization), as it was agreed that periodic webinars would be a good way to boost participation and foster discussion on socio-hydrogeology.

The IAH-SHG invite any member interested in inter and transdisciplinary approaches to foster the connection between hydrogeology and society to propose topics and/or suggest speakers for the IAH-SHG webinars by sending an email to iah.shg@posteo.net

Additionally, in view of the opportunity for proposing special sessions for IAH2024, IAH-SHG also invite those interested in collaborating for a IAH-SHG special session proposal to contact us.

IAH-SHG welcomes the participation of new members in all the Network activities, and engagement in the "Gender and Groundwater" and "Equality Diversity and Inclusion" working groups. If you want to know more please visit our website (<https://sociohydrogeo.iah.org/about-iah-shg>) or email iah.shg@posteo.net.

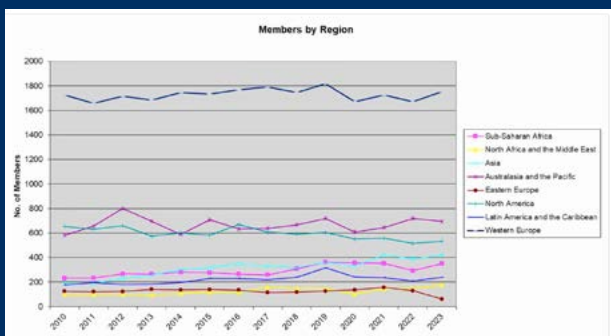
Commission on Karst Hydrogeology

MIKAS (Most Important Karst Aquifer's Springs) is the international project of the Karst Commission, and aims to establish the first complete list of the most important karstic springs at a global level, promote them, and create a Code of Practice for them. The project is progressing well, and there is now a preliminary list of 60 evaluated springs from 11 countries.

For more details about MIKAS, and other Karst Commission news, visit the KC News page at <https://karst.iah.org/kc-news>.

National Chapters: Round-Up

It was great to see representatives of many of our national chapters in Cape Town at the IAH Congress. Membership in several regions is growing, and we have members in 138 countries now. With that, more countries are wanting to start up their own national chapters.



We're pleased to welcome a new chapter in Peru. In Cape Town, delegates from Ghana met with members of IAH Council, to discuss the next steps in forming their national chapter. New Zealand National Chapter has also been offering advice and support. IAH members in Mozambique and Zimbabwe were enthusiastic about the possibility of starting national chapters in their countries. West and Central Europe Vice President,

Manuel Abrunhosa, is continuing to support members in Afghanistan as they look to form a chapter, and Indian National Chapter President Prof AK Sinha is in contact with colleagues in Malaysia about their hopes to form a chapter.

If you would like an IAH national chapter in your country let us know at info@iah.org and we'll see how we can help you. Chapters are entitled to 10% of the income from membership fees, which can be used to help with administration and running events. We also have a small amount of funds that you can apply for to help run specific events. If you – or your national chapter – can offer advice and support to colleagues wanting to start a chapter, let us know too.

Finally, a new board has been elected for our Mexico National Chapter. Congratulations to President Jürgen Mahlknecht and the new team – and thank you also to Carmen Navarro and her team for all the work carried out previously. If you have news about your national chapter let us know at info@iah.org. Remember to post it on your website too!

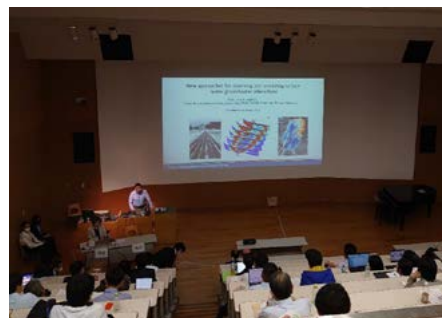
SECRETARIAT

IAH Japan NC: Joint Session at JAGH 2023

The IAH Japanese chapter and the Japanese Association of Groundwater Hydrology (JAGH) co-hosted a joint international session at the JAGH 2023 spring meeting on 27th May.

Around 150 participants attended either the on-site meeting at the University of Tokyo or via zoom online meeting. Two guest speakers who were staying in Japan gave keynote lectures. Prof. Philip Brunner, University of Neuchâtel, Switzerland, talked about "New approaches for observing and simulating surface water groundwater interactions" and Prof. René Therrien, Université Laval, Canada, talked about "Real time forecasting with the coupled surface water and

groundwater HydroGeoSphere platform". IAH members chaired the session. Four international graduate students presented their research activities as the general presentation followed by active discussions in English.



IAH Spain NC: Chapter News

Groundwater Modeling Course

We offer an annual course dedicated to mathematical modeling of groundwater flow and transport processes. This course, initiated in 2017, lasts 5 days and focuses on practical exercises involving open-source modeling tools. This year it was held in the University of Zaragoza (Spain) and there were 18 participants.

Geothermal Conference

On October 25th, a technical event on geothermal energy and hydrogeology was held in Madrid, co-organized by several Spanish associations, with a notable presence from the Spanish Chapter of IAH. The primary goal of this event was to highlight the implications of hydrogeology in the research and utilization of geothermal resources. The event concluded with a technical visit to facilities related to the energy utilization of groundwater.

Hydrogeoday 2024

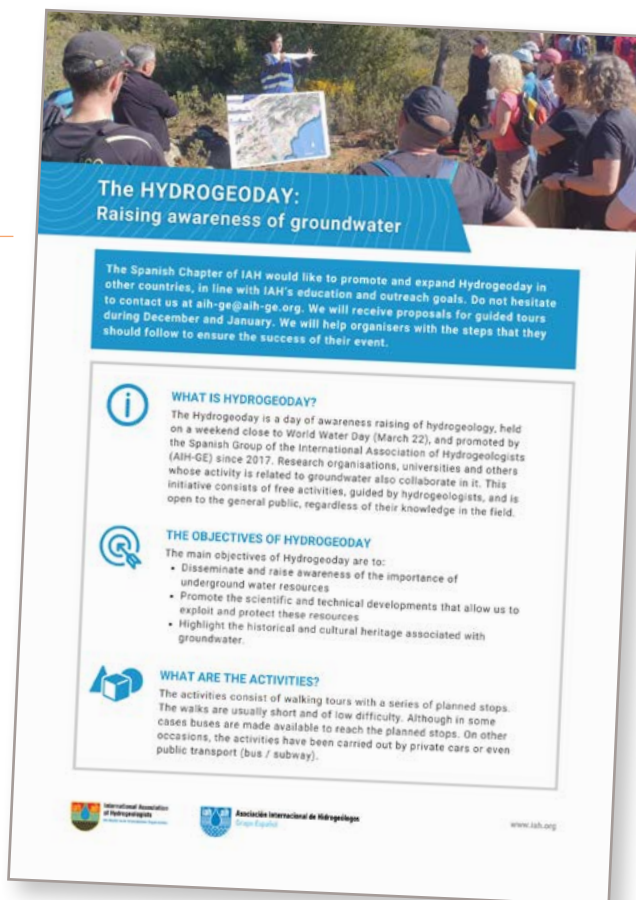
The Hydrogeoday is a day of awareness raising of hydrogeology, held on a weekend close to World Water Day (March 22), and promoted by the Spanish Group of IAH (AIH-GE) since 2017. The initiative consists of free activities, guided by hydrogeologists, and is open to the general public, regardless of their knowledge in the field.

AIH-GE would like to promote and expand Hydrogeoday in other countries, in line with IAH's education and outreach goals. They will receive proposals for guided tours during December and January, and will help organisers with the steps that they should follow to ensure the success of their event. IAH and AIH-GE have produced a fact sheet with more details and advice for organising your own Hydrogeoday event. You can download this from the IAH website at <https://iah.org/education/professionals/hydrogeoday>.

For more information and to submit an activity, email AIH-GE at aih-ge@aih-ge.org.

Spanish Chapter Awards

With the aim of promoting and fostering hydrogeology, the Spanish Group of the IAH annually awards different prizes, which are recognitions for individuals and entities that have excelled in various aspects within the field of hydrogeology. In the same vein, since the training of specialists in Hydrogeology is considered a fundamental aspect to develop, two financial aids are granted to students of postgraduate courses/master's programs. The awardees can be seen at <https://www.aih-ge.org/premios-aih-ge/>



IAH Council Elections

The next elections for IAH's Advisory Council will take place in 2024. All members who have paid their IAH membership fees can stand for election and are entitled to vote. Nominations for those who wish to stand for Council are requested from 1 January 2024.

Members are responsible for IAH's policies and strategic direction, ensuring that these serve the Association's charitable objectives, "to advance public education and promote research in the study and knowledge of hydrogeological science". They have a vital role in developing IAH's policies and plans, and in overseeing their implementation on behalf of all our members. Members represent the IAH to external organisations across the world, particularly the 'UN family'. Regional Vice Presidents provide oversight for and support to our chapters and members in their regions.

Members of the **Executive Committee** have additional responsibilities. The Executive Committee consists of the President, the Secretary General, the Vice President for Finance and Membership (the "Treasurer"), and the Vice President for Science. They have the legal responsibilities of trustees and directors of IAH as registered charity and company.

Nominations

There are twelve positions for which nominations are sought:

- Members of the Executive Committee
 - **President**, who represents IAH with other organisations and chairs the Board of Directors of the Charity, the Executive Committee and the General Assembly;
 - **Secretary General**, who has responsibilities particularly for external relationships and also for various internal groups;
 - **Vice President, Finance & Membership**, responsible for finances (income stream, planned budget and actual expenditure) and developing membership;

- **Vice President, Programme and Science Coordination**, with responsibilities for commissions, networks and promotion of science, internally and externally;

- Regional Vice Presidents, who provide stewardship of IAH interests and co-ordination of national chapters in a particular region:
 - Asia
 - Australasia and the Pacific
 - Eastern Europe and Central Asia,
 - Europe (West and Central)
 - Latin America and the Caribbean
 - Middle East and North Africa
 - North America
 - Sub Saharan Africa

Schedule

Nominations should be sent to IAH Secretary General Jane Dottridge by 31 March 2024 (jane.dottridge@gmail.com) with a copy to the IAH Secretariat (idavey@iah.org). Your nomination should contain a brief curriculum vitae of the candidate and a letter from the candidate confirming her or his willingness to stand for election. Candidates will be required to formally acknowledge the guidelines of conduct before being accepted on to the voting list.

Further details for candidates are available at <https://iah.org/members> or from the Secretariat (info@iah.org). Information about the current Advisory Council members, their biographies and personal statements can be found at <https://iah.org/about/council>.

Ian Davey, Returning Officer

The IAH Groundwater Torch

The IAH Groundwater 'Olympic Torch' represents a sharing of groundwater from around the world. The torch travels to each IAH World Groundwater Congress, where some of the water from previous congresses is used, and the torch is then replenished from a local source.

The IAH Groundwater Torch has now traveled from São Paulo, to Brussels, to Wuhan and then on to Cape Town. Here it was replenished with water from the Oranjezicht spring. It will now head to Davos for the 2024 World Groundwater Congress.



Watch as Julian Conrad, *IAH-SA Secretary*, and Candice Lasher-Scheepers, *City of Cape Town*, add South African groundwater to the torch bottle at <https://vimeo.com/iahgroundwater/torch-2023>.

In memoriam

It is with sadness that we mark the passing of Professor Emilio Custodio (1939-2023)

Professor Custodio dedicated his life to the understanding and promotion of groundwater resources, leaving a lasting legacy on water science and management.

Throughout his distinguished career, Professor Custodio was the author of countless academic publications, directed a multitude of doctoral theses and led research projects that revolutionised the understanding of aquifers and their interaction with the environment. Also noteworthy was his commitment to excellence and ethics in hydrogeological research, which set a benchmark for several generations.

In addition, Professor Custodio was President of the International Association of Hydrogeologists (2000-2004), President of the Spanish Group of the IAH (1990-1994),

promoter of the International Groundwater Hydrology Center Foundation and Director of the Geological and Mining Institute of Spain (1997-2004) from where he promoted scientific research in groundwater.

IAH Grupo Español paid tribute to the distinguished career of Professor Emilio Custodio by publishing a memorial acknowledging his significant contributions to the study of groundwater resources, his extensive academic publications, and his role in mentoring numerous doctoral students: https://www.aih-ge.org/wp-content/uploads/Emilio_Custodio_despedida.pdf.

From IAH and AIH Grupo Español, we would like to convey our sincere condolences to Emilio's family, friends, colleagues and the entire IAH community.



Diary dates

26-28 Feb 2024 – Dubai, United Arab Emirates
2nd International Conference on Water Resources Management & Sustainability: Solutions for Arid Regions

Addressing the critical importance of water resources availability for the future of economies, communities, and the environment in arid and semiarid regions, and discussing global water issues and address future water and environmental challenges.

Organised by The National Water and Energy Center, United Arab Emirates University.

<https://conferences.uaeu.ac.ae/warms2024>

22 March 2024
World Water Day

The Annual United Nations Observance focusing on the importance of freshwater. In 2024, the theme will be Leveraging Water for Peace.

<https://www.unwater.org/our-work/world-water-day>

27-28 May 2024 – Beersheba, Israel
International Water Summit

The Water Summit will cover four main topics – Climate Change & Water Resources; Emerging Contaminants in Water; Water Challenges in the Developing World; and Water: Water Technologies.

Organised by The Zuckerberg Institute for Water Research (ZIWR), Ben Gurion University, Israel.

<https://www.watersummitziwr.com/>

10-15 Jun 2024 – Rome, Italy
Eurokarst 2024

Presenting the latest news on hydrogeological research on karst aquifers, and discussing groundwater; a fundamental resource for human beings, societal development and environmental protection.

Organised by Aldo Moro University Bari, Sannio University Benevento, Sapienza University, Rome, IAH Italian Chapter.

<http://www.eurokarst.org/>

8-13 Sep 2024 – Davos, Switzerland
IAH 51st World Groundwater Congress

Share your findings and get a comprehensive update on the latest international developments on groundwater and their relevance for society in a scenic Alpine setting.

Organised by The Swiss Society of Hydrogeology and the Centre for Hydrogeology and Geothermics of the University of Neuchâtel.

<https://www.iah2024davos.org/>

17-20 Sep 2024 – Santa Rosa city (La Pampa - Argentina)
II Argentine Congress of Hydrogeology and the XVI Latin American Congress of Hydrogeology

Topics include: Regional Hydrogeology, Hydrochemistry, Quality and Contamination, Hydrogeology of Salars, Urban Hydrogeology, Surface water - groundwater interaction, Planning, Management and Legislation, Public Policies and Water Governance.

Organised by National University of La Pampa, ALHSUD and IAH Argentine Chapter.

Email: hydrolapampa2024@exactas.unlpam.edu.ar



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