

IAH MAR Commission Newsletter. Issue nº 46. 2024 October-November

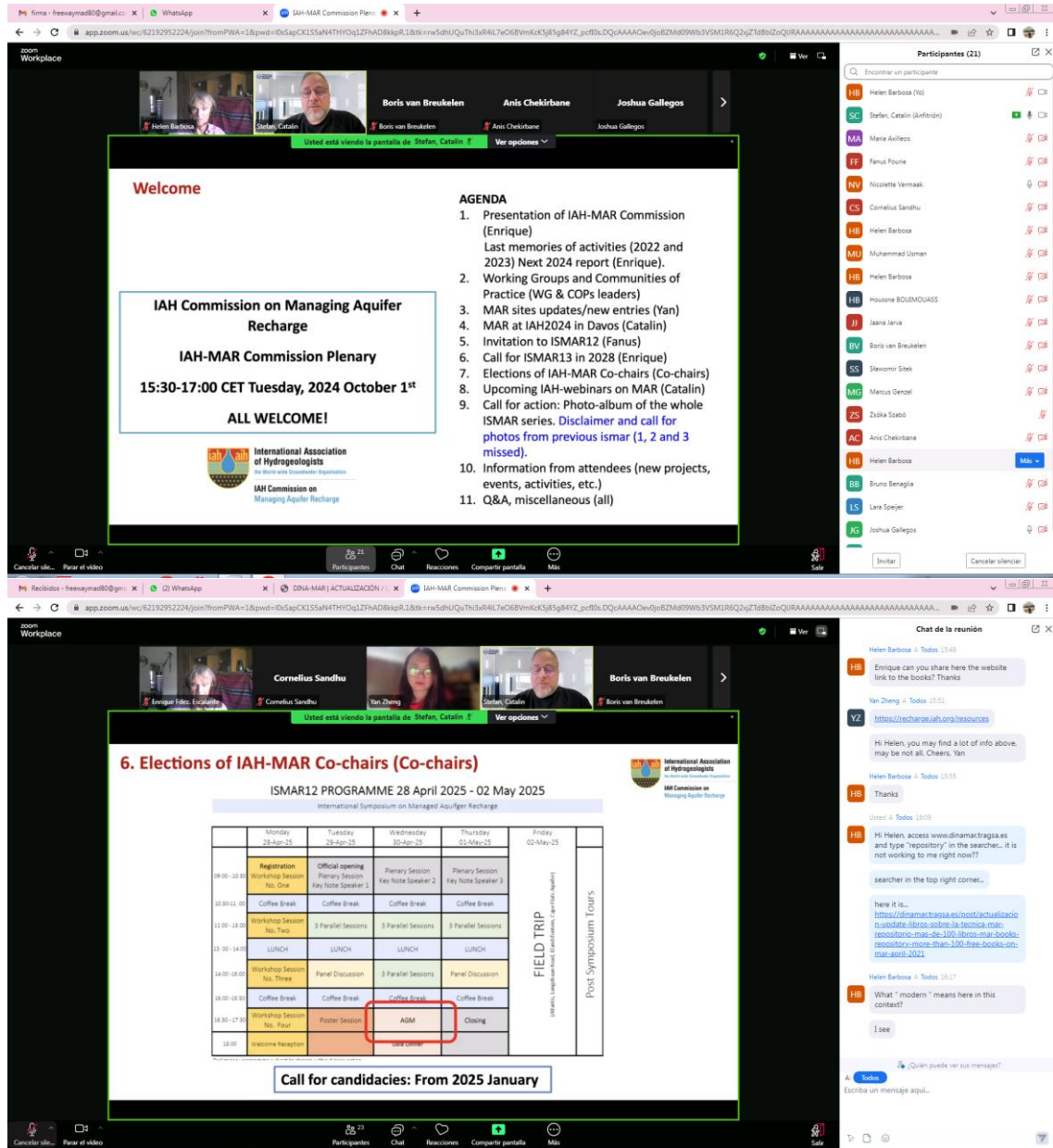
Dear MARers, attached some information about Managed Aquifer Recharge.

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- INMINENT!!! GEOSS webinar about “The Effectiveness of the MAR Scheme at a Mine along the West Coast of South Africa”
- IAH-MAR will have a specific session in IAH 2025 congress.
- San Bernardino Valley activity. CA, USA
- Gathering photos from ISAR 1. ISAR 2, TISAR 98, to post a gallery in our website
- Podcast. Groundwater talks. MAR in southern Africa
- Some on-going projects on MAR in Europe
- GEUS, DEPA and the Danish Embassy in India have shared their expertise on managed aquifer recharge (MAR) with an Indian delegation
- TDS in Flood MAR conference in Middle East
- Job opportunity. Assistant Professor in Hydrogeology in Oman
- Whatsapp group on Aquifer Recharge Management
- Previous IAH-MAR Newsletters
- IAH-MAR Commission on Twitter (X)
- IAH-MAR Commission´s sister Web sites
- IAH MAR Commission Forum

The 2024 IAH-MAR Commission plenary (online). Has taken place in October 1st

Our annual plenary has taken place last October. At least 32 members of the MAR family participated actively, providing suggestions and studying the direction of the group.



The screenshot shows a Zoom meeting interface. The main window displays a presentation slide titled "Welcome" for the "IAH Commission on Managing Aquifer Recharge IAH-MAR Commission Plenary" held on Tuesday, 2024 October 1st from 15:30-17:00 CET. The slide includes an agenda with 11 items, such as the presentation of the 2022 and 2023 reports, working groups, and elections of co-chairs. A list of participants is visible on the right side of the screen.

The chat window on the right shows a conversation about the website link for the plenary presentation. A participant asks for the website link, and another responds with the URL: <https://recharge.iah.org/resources>. There is also a discussion about a search function on the website.

A second screenshot below shows a slide titled "6. Elections of IAH-MAR Co-chairs (Co-chairs)". It features a detailed schedule for the ISMAR12 Programme from 28 April 2025 to 02 May 2025. The schedule includes registration, workshops, coffee breaks, lunches, and a final AGM (Annual General Meeting) on Wednesday, 30 April 2025. A call for candidacies is noted as starting from 2025 January.

ISMAR12 PROGRAMME 28 April 2025 - 02 May 2025					
International Symposium on Managed Aquifer Recharge					
	Monday 28-Apr-25	Tuesday 29-Apr-25	Wednesday 30-Apr-25	Thursday 01-May-25	Friday 02-May-25
08:00 - 10:30	Registration Workshop Session No. One	Official opening Plenary Session Key Note Speaker 1	Plenary Session Key Note Speaker 1	Plenary Session Key Note Speaker 3	
10:30-11:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
11:00 - 12:30	Workshop Session No. Two	3 Parallel Sessions	3 Parallel Sessions	3 Parallel Sessions	
13:00 - 14:00	LUNCH	LUNCH	LUNCH	LUNCH	
14:00-16:00	Workshop Session No. Three	Panel Discussion	3 Parallel Sessions	Panel Discussion	
16:00-18:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
18:30 - 17:30	Workshop Session No. Four	Poster Session	AGM	Closing	
18:00	Welcome Reception				

Please, access the plenary presentation in our website:

<https://recharge.iah.org/files/2024/10/2024-10-01-IAH-MAR-Commission-plenary.pdf>

Previous plenaries notes at: <https://recharge.iah.org/recent-iah-mar-plenaries>

ISMAR 12 novelties

“From Theory to Implementation and Operation”

28 April – 2 May 2025 – Stellenbosch, South Africa

Five months to go... our main conference and meeting point is approaching.

The main Theme of ISMAR 12 is “From Theory to Implementation and Operation”, with eight Sub-themes that address various MAR methodologies, applications, and developments:

The organizers have just released their third newsletter: https://ismar12.org.za/wp-content/uploads/2024/11/ISMAR12_Newsletter3.pdf



NEWSLETTER THREE



DEADLINE
ONLINE REGISTRATIONS
20 NOVEMBER

Please register and complete payment by **20 November** to secure the early bird registration rate. For confirmed presenting authors, it is essential to register by **20 November** and the registration fee must be paid by **5 December 2024** to ensure your presentation is included in the official program.

Symposium Programme

We received an outstanding response to our call for abstracts, with over 140 submissions. The Scientific Committee, led by Nicolette Vermaak, has completed the review process, and confirmation emails have been sent to all presenting authors. We are looking forward to a dynamic programme that includes oral and poster sessions, workshops, and panel discussions.

Included in the main 3 day symposium programme are the following sessions:

- Integrated strategies in design of new MAR schemes to minimise clogging
- Analysis of implemented MAR scheme failure: selected global case studies
- **Part 1:** Overview of American Society of Engineers (ASCE) Standard Guidelines for Managed Aquifer Recharge Surface Spreading Facilities (ASCE/EWRI 69-19): Managed Aquifer Recharge Concepts and Planning.
- **Part 2:** American Society of Engineers (ASCE) Standard Guidelines for Managed Aquifer Recharge Surface Spreading Facilities (ASCE/EWRI 69-19): Design, O&M, Data Collection and Site Characterization Methods
- Recent advancements in MAR feasibility mapping

Panel discussions:

- The microbiome and MAR
- MAR in Africa

PRE SYMPOSIUM WORKSHOPS

ISMAR12 is offering an impressive pre-symposium workshop programme. Space is limited, so please register promptly to secure your spot in the workshops:

- Achieving Successful Groundwater Recharge and Recovery Through Wells
- Technical solutions for IWRM by means of MAR schemes.
- MAR Scheme Design Considerations for Bore Recharge (Science meets Engineering)
- Hydrogeochemistry and Managed Aquifer Recharge (MAR) – Speciation Modelling of Mixing Waters
- Operational Stage of the Well

FIELD EXCURSIONS

Join us for an unforgettable day of discovery and networking against the stunning backdrop of the Western Cape!

Included in the symposium programme are the field excursions on the Friday, 2 May 2025. Delegates can select which tour they wish to join when registering:

Field Excursion 1: Atlantis MAR scheme

Field Excursion 2: Cape Flats Aquifer MAR scheme

Field Excursion 3: The Elandsfontein Phosphate Mine and Langebaan Road Aquifer MAR schemes

Sponsorship and Exhibition Opportunities

The ISMAR12 Symposium provides a unique platform for companies and institutions to connect directly with industry professionals. Showcase your

products and services to network with the delegates and enhance your brand's visibility within the field.

We thank our sponsors and exhibitors



WGA

SPONSORS



EXHIBITORS

IMPORTANT DATES | IMPORTANT DATES | IMPORTANT DATES | IMPORTANT DATES

20 Nov 2024	Early bird registration deadline	March 2025	Registration closes
30 Nov 2024	Presenting authors to register	March 2025	Final programme made available
05 Dec 2024	Presenting authors to pay the registration fee	April/May 2025	ISMAR 12

Website: <https://ismar12.org.za/> + Contact: confetal2@iafrica.com

Register for the Symposium (check the web site for “early bird” registration deadline) to secure your attendance at the workshops, presentations, networking, and tours. The Sponsorship/Exhibition Prospectus are available in the website. Three exciting excursions are planned for Day 5, and much more...

More info: <https://ismar12.org.za/>

Thank you Fanus Fourie, ISMAR 12 chairman, and team, for the organizing effort.

ISMAR12: Herman Bower Award. call for nominations

AHS and GRA created this award in honor of Dr. Herman Bower's significant role in advancing our understanding of MAR. It is presented at two recharge symposia: BSMAR and ISMAR (the International Symposium on MAR). The winner is selected by a committee that includes prior awardees.



The criteria for nomination is broad and includes any person or agency that has significantly advanced the understanding or utilization of MAR.

Early on the selection committee was a combination of GRA and AHS members, but now that there are five award winners, they are the committee that determines the award recipient.

To know more about the award: <https://ahssymposium.org/bsmar/program/herman-bouwer-award/>

Nomination form: <https://azhydrosoc.org/about-ahs/nomination-form/>

Prior winners include:

2014: Bob Rice BSMAR14

2016: Mario Lloria ISMAR9/BSMAR15

2018: David Pyne BSMAR16

2022: Peter Dillon ISMAR11


2024: Mark Cross BSMAR18

2025: TBD, ISMAR12

PUBLICATIONS ABOUT MAR

European Guidelines document on MAR from the Common implementation Strategy (CIS), working group on groundwater

In Sep 25th the CIS group have published the European Guidelines document INCLUDING ALMOST ALL OUR IAH-MAR COMMISSION INPUTS (the document moved around from 2023 July submitting participants inputs by November). Our contributions have been listened and heeded, and also, from MARSOL/UT projects.

<p style="text-align: center;">COMMON IMPLEMENTATION STRATEGY FOR THE WATER FRAMEWORK DIRECTIVE AND THE FLOODS DIRECTIVE</p> <p style="text-align: center;"></p> <p style="text-align: center;">Technical Document No. XX Managed Aquifer Recharge (MAR) under the Water Framework Directive Date 25.09.2024</p>	<p>Foreword</p> <p>This document is a deliverable of the CIS working group GROUNDWATER. It was developed and drafted by a core-group of experts, members of the same working group.</p> <p>It outlines the regulatory framework for Managed Aquifer Recharge (MAR) established through the EU Water Framework and Groundwater Directives, with the aim of ensuring the adoption of safe MAR techniques in the EU. It builds on the input and feedback from a wide range of experts and stakeholders that have been involved through meetings, workshops, and written consultation, without binding them in any way to this content. The document has also been discussed with the MAR Commission of the International Association of Hydrogeologists who have provided important support from a technical perspective.</p> <p>The document is therefore intended to inform stakeholders in EU Member States such as policy makers, regulators, operators in the water sector, academia and environmental organisations on how the regulatory provisions of these two Directives can be applied to ensure the safe application of MAR techniques. The document can also facilitate a continued discussion on the future development of regulatory frameworks, including exchanges with stakeholders beyond the European Union, to ensure that MAR is increasingly considered as a safe technique used for groundwater management worldwide. The outcomes of the document should therefore not be considered as introducing mandatory provisions for the regulation of MAR (the document does not introduce any legislative or regulatory provisions) but more as presenting recommendations on the development of effective regulatory frameworks for ensuring the safe application of MAR techniques.</p>
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The expected Directive on MAR for agricultural uses at European level would have been the best solution to move forward, as two countries vetoed it last year when trying to approve the text. That is why the European guidelines for MAR have been published instead.

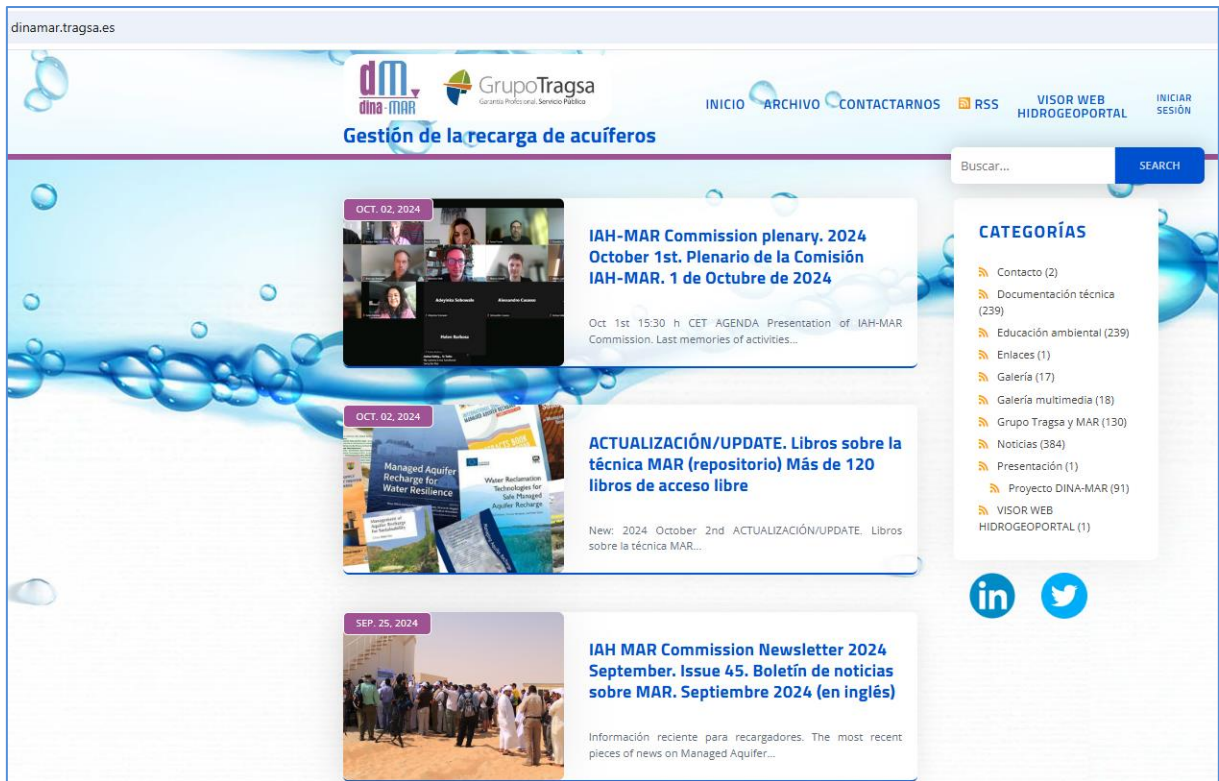
The previous link to download did not work whilst writing this Bulletin, but we'll stand up to share it ASAP:

<https://circabc.europa.eu/ui/group/9ab5926d-bed4-4322-9aa7-9964bbe8312d/library/1be725d4-4715-40d1-aad-41033da14141/details>

Congratulation to Manuel Sapiano and the CIS GW group for this release.

MAR books repository updated 2024 October 2nd (DINAMAR)

We keep gathering those books of hydrogeology, specially dedicated to MAR technique which are available on the Internet for free. It's a repository for technicians and practitioners where they could meet a library to attend their inquiries.



The screenshot shows the website 'dinamar.tragsa.es' with a header for 'Gestión de la recarga de acuíferos'. The main content area features three news items:

- OCT. 02, 2024**: IAH-MAR Commission plenary, 2024 October 1st. Plenario de la Comisión IAH-MAR. 1 de Octubre de 2024. Oct 1st 15:30 h CET AGENDA Presentation of IAH-MAR Commission. Last memories of activities...
- OCT. 02, 2024**: ACTUALIZACIÓN/UPDATE. Libros sobre la técnica MAR (repositorio) Más de 120 libros de acceso libre. New: 2024 October 2nd ACTUALIZACIÓN/UPDATE. Libros sobre la técnica MAR...
- SEP. 25, 2024**: IAH MAR Commission Newsletter 2024 September. Issue 45. Boletín de noticias sobre MAR. Septiembre 2024 (en inglés). Información reciente para recargadores. The most recent pieces of news on Managed Aquifer...

The right sidebar contains a search bar and a 'CATEGORÍAS' section with the following items:

- Contacto (2)
- Documentación técnica (239)
- Educación ambiental (239)
- Enlaces (1)
- Galería (17)
- Galería multimedia (18)
- Grupo Tragsa y MAR (130)
- Noticias (384)
- Presentación (1)
- Proyecto DINA-MAR (91)
- VISOR WEB HIDROGEOPORTAL (1)

At the bottom of the sidebar are social media icons for LinkedIn and Twitter.

Access the updated collection and access more than 120 free books on MAR: <https://dinamar.tragsa.es/post/actualizacion-update-libros-sobre-la-tecnica-mar-repositorio-mas-de-120-libros>

To report broken links, please: [dinamar \(a\) tragsa.es](mailto:dinamar@tragsa.es)

IAH Technical insight Series. Co-MAR yellow sheet

The IAH Executive has recently approved the publication of the Yellow Sheet for the TIS series entitled: Co-Managed Aquifer Recharge (Co-MAR), proposed by the IAH-MAR Commission. We hope it will be available in the next Newsletter.

IAH TIS access: https://iah.org/education/professionals/technical_insight_series

Thank you Marco Petitta, Jane Dotridge..., for such important action developing yellow sheets for the benefit of the community.

IWMI water policy brief. Issue 44. Managed aquifer recharge applications for climate adaptation in developing countries: Mounting evidence, abundant potential

Managed aquifer recharge (MAR) is a well-established technique that enhances groundwater storage during wet periods, thereby making water available during dry periods. Four case studies from Africa and Asia reviewed in this brief demonstrate the concrete and sustained benefits derived from MAR...



IWM
International Water
Management Institute

Water Policy Brief - 44
based on externally peer-reviewed
published material

Managed aquifer recharge applications for climate adaptation in developing countries: Mounting evidence, abundant potential

Key messages

- **Flood reduction, groundwater level restoration and sustained agricultural productivity:** In Uttar Pradesh, India, the Underground Transfer of Floods for Irrigation (UTFI) approach to MAR has increased groundwater storage by over 25,000 m³ per year at the pilot scale, and has since been adopted in hundreds of villages in the Ramganga Basin.
- **Water security improvement and gender equality:** in Zimbabwe's Shashe catchment, sand dams have improved water security by extending water availability by more than 4 months annually and reduced the daily burden of water collection on women, providing them with time to engage in other livelihood activities.
- **Flood mitigation and urban water supply improvement:** In Islamabad, Pakistan, the installation of 100 MAR sites has fostered recharge of stormwater to mitigate flood risk, raise groundwater levels by over 3 meters and improve water quality.
- **Climate adaptation in agriculture:** In Vietnam's Central Highlands, MAR has alleviated seasonal water shortages for coffee farmers by capturing monsoonal runoff for groundwater recharge, satisfying up to one-third of irrigation water needs during critical dry season months.

Managed aquifer recharge (MAR) is a well-established technique that enhances groundwater storage during wet periods, thereby making water available during dry periods. Four case studies from Africa and Asia reviewed in this brief demonstrate the **concrete and sustained benefits** derived from MAR.

Global assessments reveal a vast potential with over 15 million square kilometers (11% of the world's land area) potentially suitable for MAR. Given the substantial benefits and opportunities MAR offers, it is essential for policymakers and practitioners to **accelerate its implementation in developing countries** as a tool for enhancing climate resilience. The evidence and guidance provided in this brief and related documents offer valuable support for this effort. Concrete steps are outlined to help developing countries lay the groundwork for successful MAR implementation, thereby strengthening their climate adaptation strategies.



Singan khena recharge site, Rampur district, Uttar Pradesh, India, established under the Mission Amrit Sarovar (photo: IWM).

Access the Bulletin: <https://hdl.handle.net/10568/158162>

Download the full publication:

<https://cgspace.cgiar.org/server/api/core/bitstreams/2dd445f3-fbe2-43f1-b186-854dd26911e9/content>

Thank you, Paul Pavelic, for reporting.

Managed Aquifer Recharge in Mongolia: Policy Recommendations and Lessons Learned from Pilot Applications

ADB Policy Brief on MAR in Mongolia. *This brief shares lessons from pilot projects to replenish Mongolia's aquifers to help offset rising demand for water as climate change threatens to worsen shortages.*

NO. 263

OCTOBER
2023

ADB BRIEFS

KEY POINTS

- Deliberately replenishing aquifers using managed aquifer recharge (MAR) has the potential to mitigate the effects of Mongolia's heavy reliance on groundwater because of growing water demands that exceed natural recharge.
- Pilots supported by the Asian Development Bank, particularly the Baganuur project, have demonstrated the potential of MAR to enhance groundwater resources in Mongolia.

Managed Aquifer Recharge in Mongolia: Policy Recommendations and Lessons Learned from Pilot Applications

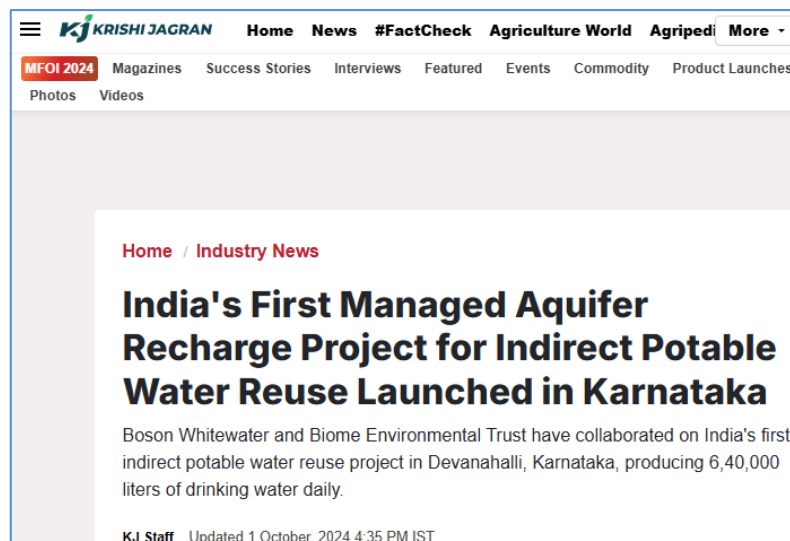
Mingyuan Fan
Principal Water Resources Specialist
Agriculture, Food, Nature, and
Rural Development Sector Office
Sectors Group
Asian Development Bank

Dated Sep 2023, we didn't know until now... We usually depend on reporting authors.

Download: <https://www.adb.org/sites/default/files/publication/917341/adb-brief-263-managed-aquifer-recharge-mongolia.pdf>

Thank you, Catalin Stefan, for your finding surfing the Web (Wild World of Weirdos, as you say smiling 😊).

India's First Managed Aquifer Recharge Project for Indirect Potable Water Reuse Launched in Karnataka (press article)



The screenshot shows a news article on the KRISHI JAGRAN website. The article title is "India's First Managed Aquifer Recharge Project for Indirect Potable Water Reuse Launched in Karnataka". The text below the title states: "Boson Whitewater and Biome Environmental Trust have collaborated on India's first indirect potable water reuse project in Devanahalli, Karnataka, producing 6,40,000 liters of drinking water daily." The article is dated "Updated 1 October, 2024 4:35 PM IST" and is attributed to "KJ Staff".

Access the publication:

<https://krishijagran.com/industry-news/indias-first-managed-aquifer-recharge-project-for-indirect-potable-water-reuse-launched-in-karnataka/>

Two articles on MAR in Italy press (in Italian)



<https://www.lecronachelucane.it/2024/11/26/mar-managed-aquifer-recharge-poco-utilizzato-in-italia/>

<https://www.rigeneriamoterritorio.it/contro-la-siccita-ecco-come-funziona-la-ricarica-controllata-della-falda/>

NEW MAR-RELATED PUBLICATIONS

Groundwater Recharge Potential Zonation and Quality Status Assessment Using Smart Sensors and Soft Computation Techniques. IWA Call of papers

This Special Issue desires to publish application of smart and novel techniques in the management of groundwater basins all over the world. Identification or prediction of the Ground Water Recharge (GWR) zones with the help of innovative arrangement or development of smart-sensors and by the application of soft computation techniques (AI, ML, MCDM, NBO etc.) will be the main focus of the Special Issue.

More info:

https://iwaponline.com/ws/pages/si_hydroinformatics_in_groundwater_management

Thank you, Peter Dillon, for reporting.

MAR AND MAR-RELATED CONFERENCES AND WORKSHOPS

IAH Online Member Alert – October and November 2024

Highlighted below is IAH's hugely successful World Groundwater Congress, which took place in Davos, Switzerland this year.

After Davos, our annual congress will take place in Melbourne, Australia next year, and then in Budapest, Hungary in 2026. Could your national chapter be the host for IAH's 2027 Congress? Let us know - or find out more - at info@iah.org. .../...



 **International Association of Hydrogeologists**
the World-wide Groundwater Organisation

IAH Online Member Alert - October 2024

Dear Colleague,

Your latest Hydrogeology Journal is now available online and on its way to your letterbox if you receive the hard copy. See below for full details.

Highlighted below is IAH's hugely successful World Groundwater Congress, which took place in Davos, Switzerland this year.

Our prestigious annual awards were presented at the Association's Annual General Meeting in Davos. Congratulations to all this year's IAH award winners!

After Davos, our annual congress will take place in Melbourne, Australia next year, and then in Budapest, Hungary in 2026. Could your national chapter be the host for IAH's 2027 Congress? Let us know - or find out more - at info@iah.org.

Included in this Member Alert is an update from the Melbourne 2025 organizing committee – you can also subscribe to their mailing list below to keep up to date.

Ian, Sharon, Hamish, Olivia
IAH Secretariat

Also, pieces of news on MAR have been included.

Access the latest IAH-MAR Enews: <https://iah.org/groundwater-eneews>

MEWAC – FEMAR Symposium. Amman, Jordan, 19 Nov 2024

As announced in previous newsletters, the Project MEWAC-FEMAR members have organized their first conference, which has finished successfully.

**MEWAC-FEMAR project partners
in Germany**

University of Applied Sciences Dresden
Division of Water Sciences
MEWAC-FEMAR consortium leader:
Prof. Dr.-Ing. Thomas Grischek;
Project investigators: Dr.-Ing. Cornelius Sandhu,
MSc Marcus Genzel, Dr. Prabash Yadav



TU Dresden University of Technology
Institute of Groundwater Management
Project investigators: Dr.-Ing. Thomas Reimann,
Dr.-Ing. Fritz Kalwa



Umweltbüro GmbH Vogtland
Weischlitz
Project investigator: Dr. Carsten Leibenath



**MEWAC-FEMAR project partners
in Middle East**

Royal Scientific Society, Jordan
Advanced Materials & Applications Division,
Emerging Pollutants Research Group
Project investigators: Dr. Othman Almashaqbeh,
Eng. Loyal Alsahhi, Aram Azmi



American University of Beirut, Lebanon
Department of Geology
Project investigators: Dr. Joanna Doummar,
Mohamad Karake, Ahmad Ezzeddine



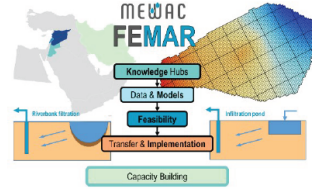
University of Aleppo, Syria
Faculty of Agricultural Engineering
Project investigators:
Prof. Dr. Ahmad Alsheikh Kaddour,
Dr. Faraj Naoum, Dr. Nahed Farhoud



1st announcement – save the date!

**Project MEWAC-FEMAR
Symposium on
Managed Aquifer Recharge
in Middle East**

19 November 2024, Amman, Jordan



Organised by
Royal Scientific Society, Jordan, and
University of Applied Sciences Dresden, Germany,

in collaboration with MEWAC-FEMAR partners

**MEWAC-FEMAR (project ID 02WME1612) is funded by
the German Federal Ministry of Education & Research
within the Middle East Regional Water Research
Cooperation Program**



We expect organizers will share the materials and we'll inform it.

Thank you Dr. Othman Almashaqbeh for reporting.

Call for proposals to organize ISMAR 13 still open

Have you thought about hosting an ISMAR? Please, consider hosting ISMAR 13 and contact an IAH-MAR co-chair...



International Symposia on MAR

- 1988 Anaheim California, USA (ASCE)
- 1994 Orlando, Florida, USA (ASCE)
- 1998 Amsterdam, Netherlands (IAH, ASCE & UNESCO)
- 2002 Adelaide, Australia
- 2005 Berlin, Germany
- 2007 Phoenix, Arizona, USA
- 2010 Abu Dhabi, UAE
- 2013 Beijing, P.R. China
- 2016 Mexico City, Mexico
- 2019 Madrid, Spain
- 2022 Long Beach, CA, USA
- 2025 Stellenbosch, S. Africa











By the moment, we have received news from two potential hosting countries, and another one is considering it.

In the next newsletter we'll inform about the procedure to select the country that will welcome us in 2028 for ISMAR 13! You may present your expression of interest until mid 2024 December.

Upcoming session on MAR at AGU24 (13 December)

H51C - Advances in Managed Aquifer Recharge for Groundwater Sustainability.

Promising session led by Helen Dahlke, with six oral presentations.

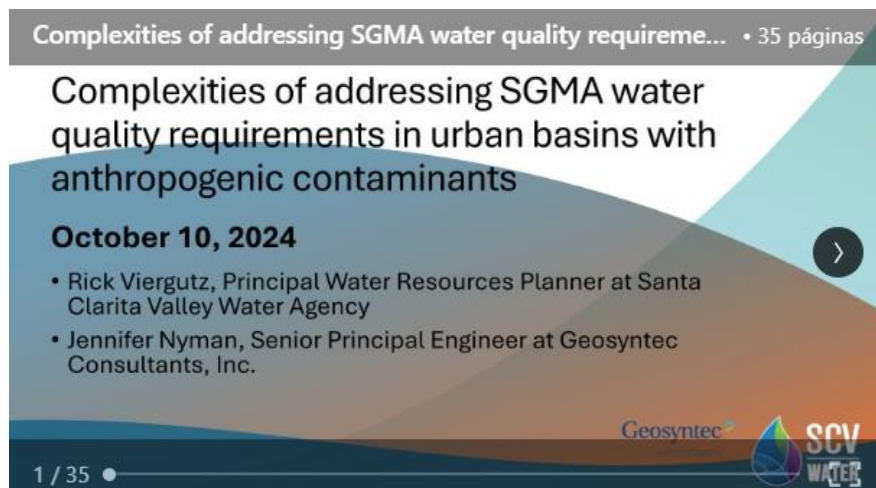


Read more: <https://agu.confex.com/agu/agu24/meetingapp.cgi/Session/234900>

SEMINARS AND WEBINARS

Santa Clarita Valley Water District, CA, USA. Complexity of addressing SGMA water Quality requirements

Navigating the groundwater quality provisions of the Sustainable Groundwater Management Act (SGMA) presents significant challenges. Achieving compliance will require time and consistent application of SGMA regulations in the Groundwater Sustainability Plans (GSPs)...



Presentation accessible at:

<https://www.linkedin.com/feed/update/urn:li:ugcPost:7265831315332034561/>

Thank you, Adam Hutchinson, for reporting.

Nature-based solutions in the WEF NEXUS world. Pisa, Italy, 2024 Oct 23th

Webinar hosted by Santa Anna Scuola in relation with the NEXUS-NESS project (PRIMA call).

*While **climate change** is posing at risk traditional **water resources management**, there is the urgent need to devise **low-energy** and **low-impact solutions** to adapt the environment, societies and economies to this threat*



Hybrid WORKSHOP

Nature-based solutions in the WEF NEXUS world.

Application, case studies and market perspectives.

Sala Conferenze – Palazzo Pilo Boyl
Via S. Cecilia 24, Pisa
Scuola Superiore Sant'Anna (Italy)
23rd October 2024 (14.15-18.30 CET)

An outcome of the EU PRIMA NEXUS-NESS project



The webinar will be held in English.

Participation (online or in presence) is free upon registration writing to xinyuan.yue@santannapisa.it.

Please specify: **name and surname, institution, country**, attending **online** or **in presence**.

Max 100 participants will be allowed online. Only 36 participants in presence.

Registration will be based on first come first served basis.

You will receive the link to the webinar on Tuesday the 22nd October.

Participants will be allowed to pose questions to the speakers at the end of each session.



Do not hesitate to write for further infos at rudy.rossetto@santannapisa.it



More info: <https://www.santannapisa.it/it/evento/nature-based-solutions-wef-nexus-world-application-case-studies-and-market-perspectives>

Project website: <https://prima-nexus-ness.org/>





Results summary: https://www.linkedin.com/posts/rudy-rossetto-45a0922_prima-nexusness-italynel-activity-7247942605735350272-CA7c/?utm_source=share&utm_medium=member_desktop

Nature-based solutions in the WEF NEXUS world.
Application, case studies and market perspectives.

WORKSHOP PROGRAMME

Time	Speaker	Presentation title	Affiliation
14:00		Registration	
14:25	Rudy Rossetto	Welcome and workshop introduction	Scuola Superiore Sant'Anna
Session 1			
14:30	Anacleto Rizzo	Nature-based Solutions for Circular Economy: experiences from EU research projects	IRIDRA srl
14:50	Pawel Jarosiewicz	Building Urban Resilience to Climate Change with Ecohydrology: A Framework for Implementing Nature-based Solutions	University of Lodz (Poland)
15:10	Alberto Pini	Towards an Ethical Management of a Scarce Resource	Scuola Superiore Sant'Anna
15:30	Andrea Mandarino	Wetland restoration within the river corridor: the case of the Po River (Italy)	Università degli Studi di Genova
15:50	Elfithri Rahmah	UNESCO Ecohydrological Nature based Solutions within the IHP-IX	UNESCO Intergovernmental Hydrological Programme
16:10	Enrica Caporali	The Economic Cost of Gender Inequalities: Insights from the Italian Agrifood Sector	Università degli Studi di Firenze
16:30		Networking Coffe break	
Session 2			
17:00	Xenia Schneider	Nature based solutions need stakeholders involvement to achieve a WEF-Nexus. The approach in the NEXUS-NES project	XPRO Consulting Limited (Cyprus)
17:20	Riccardo Benifeli	Design of retrofitting solutions using Sustainable Drainage Systems in coastal Tuscany (Italy)	Consorzio Bonifica 5 Toscana Costa
17:40	Edoardo Bigolin	The role of business in the WEF Nexus	Scuola Superiore Sant'Anna
17:55		Final discussion	
18:25		Workshop conclusions	

Thank you Rudy Rossetto for reporting.

IMMINENT!!! GEOSS webinar about “The Effectiveness of the MAR Scheme at a Mine along the West Coast of South Africa”

This talk will examine the effectiveness of the managed aquifer recharge (MAR) scheme and its impact on the aquifer. Given the deposit’s sandy nature, with a low percentage of thin, hard rock lenses, mining is conducted using conventional open-pit methods.



tdi The Dewatering Institute

WEBINAR PRESENTATION

The Effectiveness of the MAR Scheme at a Mine along the West Coast of South Africa

**27 NOVEMBER 2024
04:00PM GMT+2**



Speaker Aqeela Parker


GEOSS
 SOUTH AFRICA (Pty) Ltd

For those interested, the Elandsfontein Mine MAR Scheme is included in one of the Friday field trips for ISMAR 12, in April.

The webinar through TDI that is linked here is free to attend live, but the recording is only available to TDI members after that.

Webinar info and access:

https://www.linkedin.com/posts/thedewateringinstitute_dewateringinst-dewatering-groundwater-activity-7265319123033673729-esdO?utm_source=share&utm_medium=member_desktop

Thank you, Kess Murray, for reporting.

IAH-MAR will have a specific session in IAH 2025 congress.

After contacting organizers to ask for a MAR session in IAH 2025 Melbourne, we have received this kind response:

Fantastic Catalin,

Yes, we definitely hope to see MAR as a key topic at the congress – there are a few good examples of MAR schemes in the Melbourne region and plenty of interest within the local industry and research community. Your support in helping generate interest in the congress and encouraging a good number of abstracts, and then finding willing abstract reviewers and session chairs will be much appreciated.



Our gratitude to the Australian organizers, and best wishes for this preliminary stage...

NEW MAR OR MAR-RELATED ACTIVITIES

San Bernardino Valley activity. CA, USA

New recharge facilities that are designed to mimic natural flow and enhance endangered species habitat.



More Info: https://www.linkedin.com/posts/adam-hutchinson-pg-chq-6891b89_what-a-tour-thanks-to-san-bernardino-valley-activity-7257851349973762048-WaR5/?utm_source=share&utm_medium=member_desktop

Thank you, Adam Hutchinson, for the post.

Gathering photos from ISAR 1, ISAR 2, TISAR 98, to post a gallery in our website

The IAH MAR commission website includes an ISMAR-related section in which all information gathered from our eminent conferences.


IAH-MAR co-chairs, and thanks to the suggestion of ISMAR 12 organizers, are about to post a photo album (attending carefully IPRs) with shots from all previous ISMARs. A disclaimer will be posted too.

So, **we kindly request contributions from those of you**, probably with grey hair, who attended “ISMAR” 1-2-3, to provide some contributions for the community. By the moment we do not have anyone...

Please, contact a co-chair or email [dinamar \(a\) tragsa.es](mailto:dinamar@tragsa.es) including these old captures. Thank you in advance...

<https://recharge.iah.org/ismar>

IAH Commission on Managing Aquifer Recharge



International Association of Hydrogeologists

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COMMUNITIES
COLLABORATIONS
RESOURCES
ISMAR


ISMAR Symposia

The International Symposium on Managed Aquifer Recharge (ISMAR) is the premier international event on MAR research and practice, held every 3 or 4 years under the auspices of the International Association of Hydrogeologists (IAH), the American Society of Civil Engineers (ASCE), and the United Nations Educational, Scientific and Cultural Organization (UNESCO). This series of conferences advances the goals of IAH's Commission on MAR "to expand water resources and improve water quality in ways that are appropriate, environmentally sustainable, technically viable, economical and socially desirable".

Symposia attract attendance of national and international regulators, researchers and practitioners in all facets of MAR, including hydrogeology, geochemistry, microbiology, modeling, economics, and water resources management. Themes covered include water quality, design and construction, operation and maintenance, economics, monitoring and modeling, regulations and management, adaptation to climate change, land subsidence prevention and remediation, and thermal energy storage.

This dedicated page provides an overview on past ISMAR symposia and serves as an online repository for conference materials such as books of proceedings, abstracts etc. We warmly recommend also the collection of Proceedings of the Biennial Symposium on Managed Aquifer Recharge (BSMAR) organised in the US by the Groundwater Resources Association of California and Arizona Hydrological Society.


ISMAR PROCEEDINGS BOOKS



Proceedings of ISMAR10


MORE ACTION

Podcast. Groundwater talks. MAR in southern Africa




PODCAST


GROUNDWATER TALKS - MANAGED AQUIFER RECHARGE: SOUTHERN AFRICA



EBERHARD BRAUNE
UNIVERSITY OF WESTERN CAPE



SUMAYA ISRAEL
UNIVERSITY OF WESTERN CAPE



Listen to our Groundwater Talks interview with Sumaya Israel and Eberhard Braune, authors of the Book Managed Aquifer Recharge: Southern Africa:
<https://open.spotify.com/show/3670QwaYJqjCYRIxRAPocV>

Download the book now and share this post with your colleagues. Let's spread groundwater knowledge! <https://lnkd.in/du4QSYm7>

More takeaways from "The Groundwater Project": <https://gw-project.org/groundwater-talks-takeaways/>

Some on-going projects on MAR in Europe

- [LIFE REMAR](#) - spotted a new MAR project in Barcelona.
- [MARCLAIMED](#) - is another project that I learned about, one case study is Comporta WWTP in Portugal of LNEC
- [CLIMEX-PE](#) - is a project of our Hungarian folks (Judit Mádl-Szőnyi).

For more info, visit their websites, please. Coordinators are invited to report their activities.

GEUS, DEPA and the Danish Embassy in India have shared their expertise on managed aquifer recharge (MAR) with an Indian delegation

Representatives from the CGWB delegation also gave a presentation on some of the ambitious initiatives on groundwater management in India which they are in charge of.



Read more: https://www.linkedin.com/posts/bj%C3%B8rn-kaare-jensen-2802828_monday-we-had-the-pleasure-to-host-a-delegation-activity-7247224857883533312-sDgS/?utm_source=share&utm_medium=member_desktop

Thank you Bjørn Kaare Jensen for reporting.

TDS in Flood MAR conference in Middle East

The speaker Mohammed Gad reported that WST/TDS will play crucial role in ASR and Flood MAR in the region.



Read more:

https://www.linkedin.com/posts/mohammed-gad-176679175_arabwaterforum-asr-floodmar-activity-7242206914812493826-fE5O/?utm_source=share&utm_medium=member_desktop

Important reply from Mr. Hussein Saeed: *Flood-MAR techniques converting flood risks into opportunities for groundwater recharge and managing excess floodwater as well as controlling infiltration, and monitoring the quality of recharged water.*

Thank you Mohammed Gad for reporting.

Job opportunity. Assistant Professor in Hydrogeology in Oman

The Applied Geosciences Department at the German University of Technology in Oman is seeking a dedicated and innovative Assistant Professor in Hydrogeology to join our dynamic academic community. This position offers a unique opportunity for a motivated researcher and educator to contribute to our growing focus on water resources, geochemistry, and environmental sustainability.



Assistant Professor in Hydrogeology ageo-081024

Read more: <https://oes-careers.com/job/assistant-professor-in-hydrogeology/>

Whatsapp group on Aquifer Recharge Management

This is the link to join the group, with 192 participants today, and changed monthly. Please, access the last IAH-MAR newsletter.



IAH MAR 

Grupo · 192 miembros

Ask the invitation link by email, pls.

Previous IAH-MAR Newsletters

Previous newsletters access: <https://recharge.iah.org/newsletters>

IAH-MAR Commission on Twitter (X)



@IAHMARCom

<https://twitter.com/IAHMARCom>

IAH-MAR Commission's sister Web sites

<http://china-mar.ujn.edu.cn/>



<https://dinamar.traqsa.es/>





@4dina_mar

<https://www.linkedin.com/groups/4690290/> (536 members)

IAH MAR Commission Forum

Please, remember you can book freely in the IAH MAR Commission Forum:
<https://lists.flinders.edu.au/mailman/listinfo/iah-mar.listcgs>

That's all by now... **please, keep reporting** (dinamar@tragsa.es). We receive scarce pieces of news from Asia!

Dr. Enrique Fernández Escalante, on behalf of the IAH MAR Commission co-chairs,
Catalin Stefan and Yan Zheng.
2024 November 27th
