

Dear Ladies and Gentlemen, dear MAR family, good morning!

Attached some MAR-related news for 2022 July-August (quiet period).

IAH MAR Commission Newsletter. 2022 July-August

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11st International Symposium on Managed Aquifer Recharge, ISMAR 11.
PRESENTATIONS AND VIDEOS ON LINE!

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ISMAR 11 in Hydrovisions, v.31, summer 2022

Surface Infiltration and Unsaturated Zone Characterization in Support of Managed Aquifer Recharge in Bedell Flat, Washoe County, Nevada. USGS

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Whatsapp group on Aquifer Recharge Management

Previous IAH-MAR Newsletters

IAH-MAR Commission on Twitter:

IAH-MAR Commission's sister Web sites:

Linked in groups on MAR:

11st International Symposium on Managed Aquifer Recharge, ISMAR 11. PRESENTATIONS AND VIDEOS ON LINE!

The 11st International Symposium on Managed Aquifer Recharge (ISMAR 11), entitled “**Managed aquifer recharge: A key to sustainability**” has provided plenty of results. Some of them are already accessible

The videos and slides of the presentations can be accessed at GRAC Website:
<https://www.grac.org/ismar-speaker-presentations/>



grac.org/ismar-speaker-presentations/

30th ANNIVERSARY Groundwater Resources Association

About Branches Events Membership Education

ISMAR SPEAKER PRESENTATIONS

DAY 3 – Wednesday, April 13

TECHNICAL PRESENTATIONS, POSTER SESSION, AND SPEAKEASY

8:00 am – 9:55 am

Topic: Multi-Benefits of Integrated Flood Managed Aquifer Recharge in California

Moderator: Jim Wieking, CA Dept of Water Resources

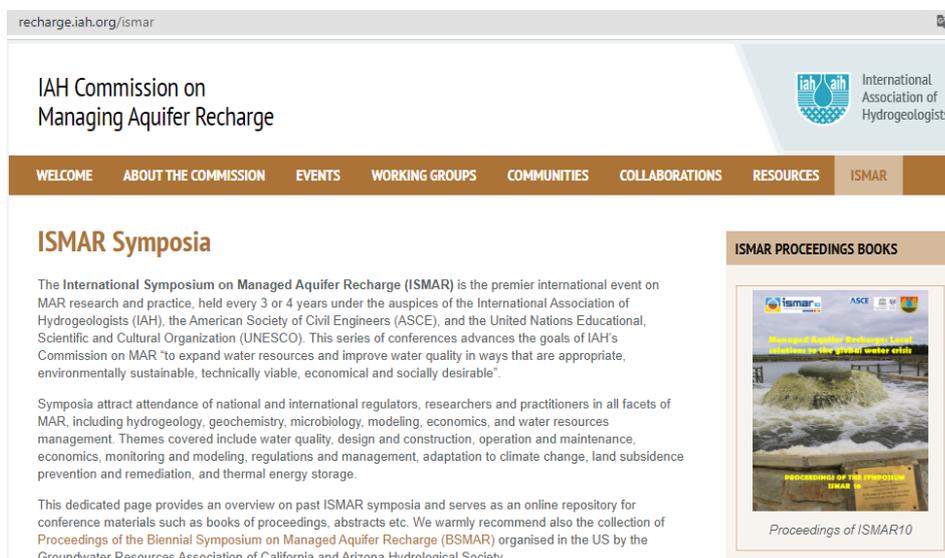
- The Merced Flood-MAR Reconnaissance Study - Integrated Modeling
David Arrate, P.E., California Department of Water Resources

SLIDES VIDEO

- The Merced Flood-MAR Reconnaissance Study - Climate Change Vulnerability
Karandev Singh, P.E., California Department of Water Resources

SLIDES VIDEO

The documents will be shared with the MAR community through the usual IAH-MAR canals. The section “ISMAR” of the website congregates most of the previous materials. The abstracts book assembled by IAH-MAR co-chairs and ISMAR 11 organizers will be posted shortly, but some abstracts are still missed. Please, check whether yours is already included, and in negative case, send us by email before September 15th, in case you want to participate (dinamar@tragsa.es).



recharge.iah.org/ismar

IAH Commission on
Managing Aquifer Recharge

International Association of Hydrogeologists

WELCOME ABOUT THE COMMISSION EVENTS WORKING GROUPS 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

In addition, the collection of slides will be under the custody of IAH-MAR co-chairs for general access in the far future. In case your slides are not in the website, please send us for the future repository in case you desire so (same deadline). By the moment, you may access these results:

-ISMAR 11 Draft Program <https://recharge.iah.org/files/2022/08/ISMAR-Draft-Program.pdf>

-ISMAR-11-onsite-guide https://recharge.iah.org/files/2022/08/ISMAR-11-onsite-guide_c.pdf

-ISMAR 11 abstract book Please, check whether your abstract is already included in this draft version. <https://dinamar.tragsa.es/file.axd?file=/PDFS/IAH-MAR-ISMAR11-abstracts-book-v5.pdf>

All those in red color are missed. In case you want your abstract included and it is not in the indexes or it is in red color, please send us ASAP. The final abstract book will be shared in the IAH-MAR September Newsletter.

-ISMAR 11 presentations <https://www.grac.org/ismar-speaker-presentations/> Please, check whether your slides are included (In the future will be in an unique zip file)

-P-ISMAR 11 book <https://dinamar.tragsa.es/file.axd?file=/PDFS/P-ISMAR-11.pdf>

Once again we are grateful to ISMAR 11 organizers for so outstanding event.

NEW MAR PUBLICATIONS

Managed Aquifer Recharge. A key to sustainability. Journal Water special issue. Call for papers!

Selected papers on MAR, specially presented at ISMAR 11 will be published in a Special Issue of the open-access journal WATER, continuing the tradition from previous symposia, including ISMAR 8 and ISMAR 10.

EVERYONE IS INVITED TO SUBMIT! Please, proceed before Mid-September, preferentially, and always before November 15th.

For more details, please visit:

https://www.mdpi.com/journal/water/special_issues/Aquifer_Recharge.

Guest editors:

Enrique Fernandez Escalante (Spain)

Catalin Stefan (Germany)

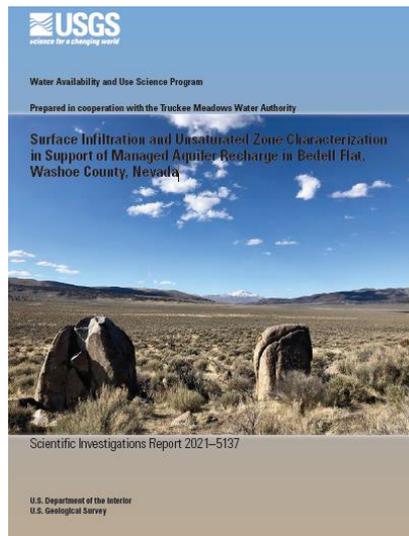
Christopher J. Brown (USA)

June Mirecki (USA)



Surface Infiltration and Unsaturated Zone Characterization in Support of Managed Aquifer Recharge in Bedell Flat, Washoe County, Nevada. USGS

Aquifer storage and recovery (ASR) expands the portfolio of public water supply and improves resiliency to drought and future water demand. This study investigated the feasibility of ASR in the Bedell Flat Hydrographic Area using land-based methods including in-channel managed aquifer recharge (MAR) and rapid infiltration basins (RIB)... read more... <https://pubs.er.usgs.gov/publication/sir20215137>



MAR-related conferences and seminars

49th IAH Congress. Wuhan, China. 2022 September 18th to 23th

The IAH (International Association of Hydrogeologists) Congress bring the hydrogeological community together to share ideas, experiences and latest advancements in this field as well as supporting, training and encouraging early career colleagues.



Session 15: Managed Aquifer Recharge. Draft program already available:

Oral-1st half: 13:00-14:40

1. Megdal (invited)
2. Dillon (invited)
3. Zheng
4. Y. Li
5. Guo
6. H. Li

Oral-2nd half: 15:00-16:45

7. Vanderzalm
 8. Cui
 9. Szabo
 10. Chai
 11. Sallway
 12. Haritha (is this the last name?)
 13. Garbia
- Poster: 17:00-17:30

More details on the IAH 2022 website: <https://www.iah2022.com/>

Thank you Yan Zheng for so explanatory report.

UN-Water Summit on groundwater. Paris, 7th and 8th December 2022

The UN-Water Summit on Groundwater will be the culminating event of the 2022 campaign “**Groundwater: making the invisible visible**”, implemented by the dedicated UN-Water Task Force, co-coordinated by UNESCO and the International Groundwater Resources Assessment Centre (IGRAC), on behalf of UN-Water.



More information: www.groundwater-summit.org and info@groundwater-summit.org

The IAH-MAR Commission has submitted an official request to host a MAR side event: ***Managing Aquifer Recharge: making the visible, invisible!!*** The overall objective(s) of the Side Event is increasing awareness of MAR and its capabilities to face frontally climate change adverse impacts, to provide local solutions to the global water crisis and to become a key for sustainability.

The organizers have not informed IAH-MAR Commission about its acceptance yet.

MARSOLut Marie S-Curie project. Barcelona final workshop

The Managed Aquifer Recharge ITN Project (MARSOLut), Barcelona partners will hold the final workshop in Spain this October 19th and 20th.

 <p>MAR Con '22</p> <p>Conference, 19th – 20th October 2022, hybrid event</p> <p>Local organizer: UPC, Barcelona Meeting location: Master's and Multipurpose Classroom in the A3 building on the North Campus of UPC, C. Jordi Girona, 1-3, Barcelona, Spain</p> <hr/> <p>Wednesday October 19th</p> <p>Session 1: Sustaining Rates Sultana, R., Weirhan, U. (UFZ, Germany): Development and field evaluation of a new approach for mobile and rapid measurement of bed hydraulic conductivity for advantageous assessment of surface-water-groundwater-interaction for enhanced MAR sites operation Uebachs, M.C. & Uebachs, T. (UFZ, Germany): Understanding and predicting clogging behaviour to enhance and maintain infiltration capacity of MAR infrastructure Invited Speaker: tbc Summary and outlook - Spotlight on quantity (session chair)</p> <p>Session 2: Improving Quality Muñoz Vega, E. & Schütz, C. (TUDA, Germany): Reactive barriers for enhanced attenuation of micropollutants Horowitz, M. & Leitão, T.E. (INEC, Portugal): Assessment of the performance of different soils as a reactive layer to enhance water quality during infiltration in MAR basins Invited Speaker: Christina Valocchi (CNRS, France): Bioremediation of reclaimed water through enhanced soil aquifer treatment with reactive barriers. Gutjahr, G. & Kurtzman, D. (ARI, Israel): Flow, transport and reactions of recharged desalinated seawater in a porous aquifer Pérez López, R. & Escalante-García, D. (UPC, Spain): Chaotic flow strategies to enhance contaminant degradation during managed aquifer recharge (MAR) operations Invited Speaker: Uwe Hübner (TUM): Engineering of managed aquifer recharge systems to optimize biotransformation of trace organic chemicals Summary and outlook - Spotlight on the chemistry (session chair)</p> <p>Session 3: Proving Performance Behke, V.B. & Sanchez-Vila, X. (UPC, Spain): Modelling the fate and transport of microbial pathogens and emerging contaminants with Uebachs approaches</p> <p style="text-align: center;">814066 — MARSOLut — H2020-MSCA-ITN-2018</p>	 <p>Calgariš, E.R. & Rossetto, B. (SSSA): Hydroinformatics and monitoring for investigating groundwater quality changes in managed aquifer recharge (MAR) Vassopoulou, A. & Kallioras, A. (NTUA, Greece): Participatory modelling and deliberative monetary valuation in MAR Invited Speaker: Negev, I. (Ubbotek, Israel): The Stadler Experience Summary and outlook - Spotlight on techniques and tools (session chair)</p> <hr/> <p>Thursday October 20th</p> <p>Session 4: Optimizing Design Henao Casas, J.D. & Fernández Escalante, E. (Tragsa, Spain): Advanced technical solutions in managed aquifer recharge (MAR) Dermichele, F. & Szapiro, M. (EWA, Malta): Hydrogeological and geochemical modelling of a sea-water intrusion barrier in an island/coastal groundwater body Stardim, K. & Monteiro, J.P. (UAlg, Portugal): Integration of MAR solutions and modeling know-how for improvement of quantitative and qualitative status of selected water bodies identified in River Basin Management Plans Invited Speaker: tbc Summary and outlook - Spotlight on scenarios (session chair)</p> <p>Session 5: Global applicability, bottlenecks and proactive legislation Panel short presentations Panel discussion</p> <p>Field site visit (afternoon) </p> <p style="text-align: center;">814066 — MARSOLut — H2020-MSCA-ITN-2018</p>
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Download the provisional program (imminently) and more info: <https://www.marsolut-itn.eu/>

The seminar will be presential. Assistance upon invitation or request (contact section in the website).

WaterAid India's webinar. Groundwater recharge through abandoned wells

Webinar on “Ground Water Recharge through Abandoned Dug Wells – Roof-top Rainwater Harvesting Structures”.

Friday | 22nd July 2022



WEBINAR

GROUNDWATER RECHARGE THROUGH ABANDONED DUG WELLS

Artificial Recharge is a major way to combat groundwater resource depletion. WaterAid India endeavoured to access the efficacy and impact of artificial recharge using abandoned dug-wells in rural and semi-urban areas. Join top professionals, policymakers, academicians and civil society members to discuss and exchange ideas on the work and impact of this project.

SPEAKER
DR DIPANKAR SAHA
FORMER MEMBER CGWB,
AND FORMER MEMBER
SECRETARY, CGWA.

FRIDAY
22 JULY, 2022
2.30 TO 5.00PM IST

PANEL

CLICK HERE TO JOIN

DR PETER DILLON
FORMER LEAD, CSIRO

DR KAREN VILLHOLTH
DIRECTOR, WATER
CYCLE INNOVATION

SANJAY MARWAHA
MEMBER, HARYANA WATER
RESOURCES AUTHORITY

PROF. PRASOON K. SINGH
IIT DHANBAD

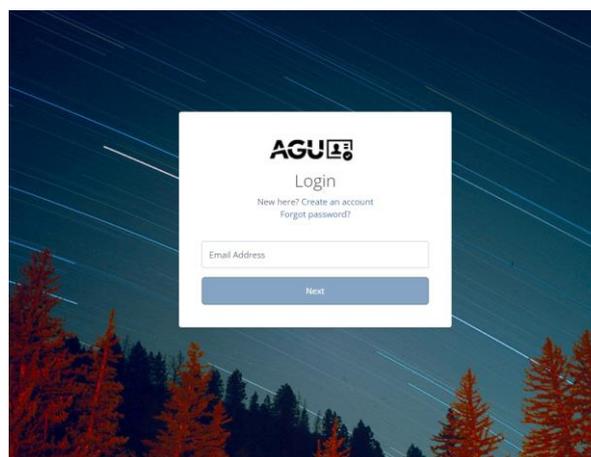
DR. PANDITH MADHNURE
DIRECTOR, GROUNDWATER
DEPT, GOVT OF TELANGANA

WaterAid India endeavoured to access the efficacy and impact of artificial recharge using abandoned dug-wells in rural and semi-urban areas...

We are expecting communication from the organizers about presentations posting.

AGU. ADVANCES in MANAGED AQUIFER RECHARGE FOR GROUNDWATER SUSTAINABILITY

Advances in managed aquifer recharge for groundwater sustainability. AGU Fall Meeting (12-16 December 2022, Chicago, IL, USA). Abstract deadline is on Wednesday 3rd August 2022 at 23:59 EDT.



Additional information can be found here:

<https://agu.confex.com/agu/fm22/prelim.cgi/Session/158319>

Thank you Alex Furman for reporting.

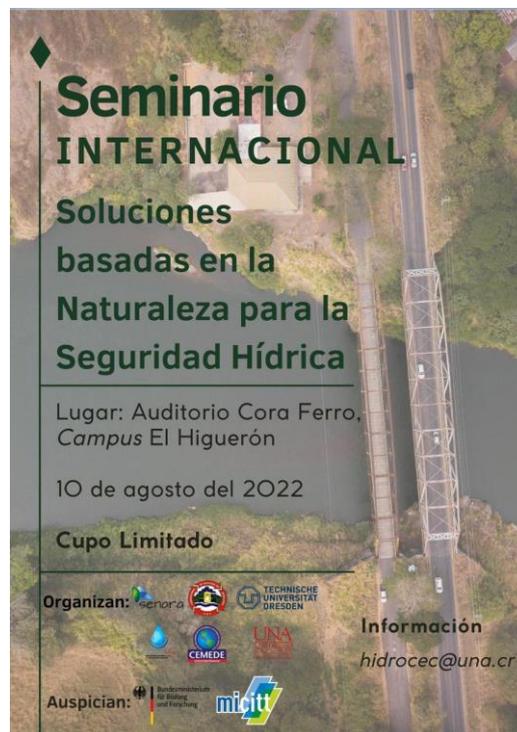
Seminario Internacional: Soluciones Basadas en la Naturaleza para la Seguridad Hídrica. Costa Rica (in Spanish except one presentation)

Seminario presencial y virtual celebrado el 10 de agosto de 2022 sobre Soluciones Basadas en la Naturaleza para la Seguridad Hídrica.

Presentaciones de los expositores del Seminario Internacional: Soluciones Basadas en la Naturaleza para la Seguridad Hídrica y a las fotografías del evento:

https://drive.google.com/drive/folders/1xX_1BOOSgSOV9UTpU3cGd-B91Os9sq6-?usp=sharing

Video: <https://www.youtube.com/watch?v=YuDG79lis9w>

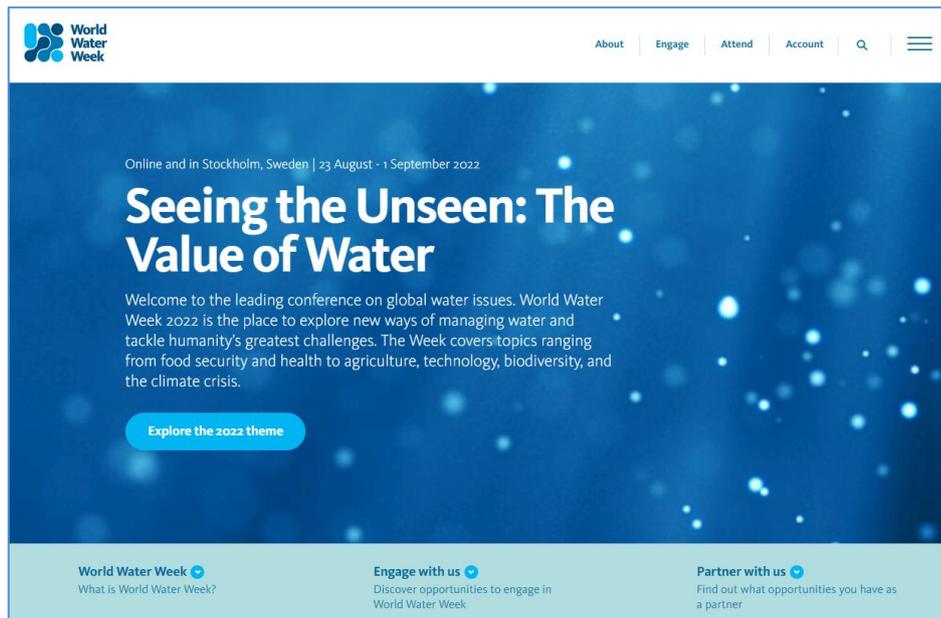


Thank you Andrea Suárez and Catalin Stefan for reporting.

NEW MAR OR MAR-RELATED ACTIVITIES

2022 World Water Week in Stockholm, Aug 23 - Sept 1

In-Person & Hybrid Session: Valuing Groundwater. At least, two abstracts on MAR have been accepted.



More info: <https://www.worldwaterweek.org/>

More actions

Whatsapp group on Aquifer Recharge Management

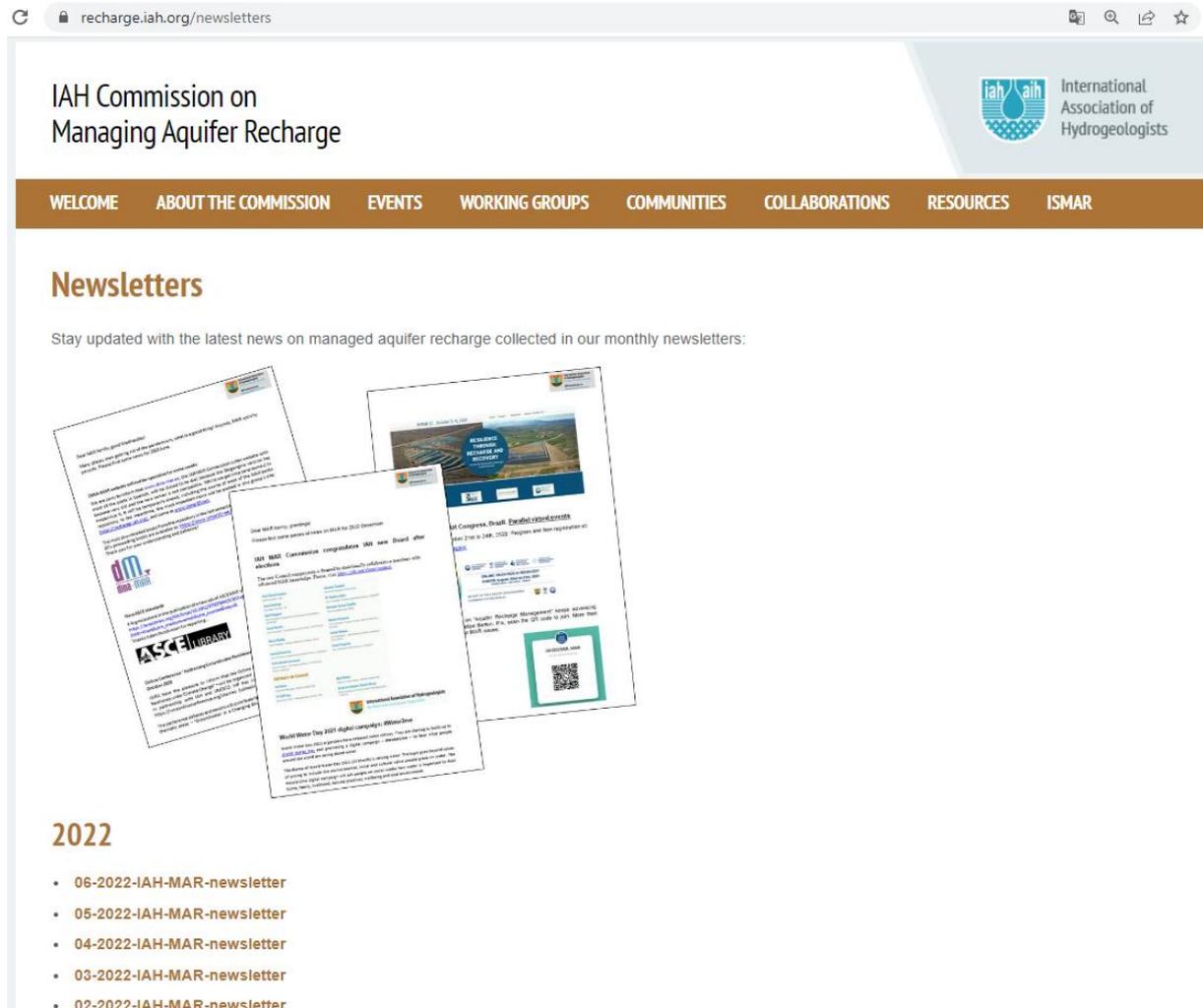
This is the new link to join the group:



Previous IAH-MAR Newsletters

Please, remember that you can access the previous newsletters in our website:

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



The screenshot shows the website interface for the IAH Commission on Managing Aquifer Recharge. At the top, there is a navigation menu with links: WELCOME, ABOUT THE COMMISSION, EVENTS, WORKING GROUPS, COMMUNITIES, COLLABORATIONS, RESOURCES, and ISMAR. The main content area is titled "Newsletters" and includes the text: "Stay updated with the latest news on managed aquifer recharge collected in our monthly newsletters:". Below this text, there are three overlapping images of newsletter covers. The first cover is dated 06-2022 and features the IAH-AIH logo and the text "06-2022-IAH-MAR-newsletter". The second cover is dated 05-2022 and features the text "05-2022-IAH-MAR-newsletter". The third cover is dated 04-2022 and features the text "04-2022-IAH-MAR-newsletter". Below the images, there is a section titled "2022" with a list of links for each month's newsletter: "06-2022-IAH-MAR-newsletter", "05-2022-IAH-MAR-newsletter", "04-2022-IAH-MAR-newsletter", "03-2022-IAH-MAR-newsletter", and "02-2022-IAH-MAR-newsletter".

That's all by now... please, keep reporting (dinamar@tragsa.es).

Thank you very much for your kind attention
All the best...

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

2022 August 17th

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

IAH-MAR Commission on Twitter:



@IAHMARCom

<https://twitter.com/IAHMARCom>

IAH-MAR Commission's sister Web sites:

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



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



@4dina_mar

Linked in groups on MAR:

MANAGED AQUIFER RECHARGE, DINA-MAR

<https://www.linkedin.com/groups/4690290/>

Aquifer Storage and Recovery (ASR)

<https://www.linkedin.com/groups/2183513/>

MARSoluT - Managed Aquifer Recharge Solutions Training Network

<https://www.linkedin.com/groups/7453856/>