

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

Attached some MAR-related news for 2021 October.

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Bringing MAR expertise to the 47th IAH congress in Sao Paulo

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11st International Symposium on Managed Aquifer Recharge, ISMAR 11.

On behalf of GRA, ISMAR 11 organizers and the IAH-MAR Commission, we cordially invite you to attend the 11th International Symposium on Managed Aquifer Recharge (ISMAR11), April 2022 in Long Beach, CA.



ISMAR 11 website: <https://www.ismar11.net/>

GRA event page: <https://lnkd.in/gXn6YNz>

Register as a Sponsor or Exhibitor: <https://lnkd.in/g6Sb6ur>

View the Sponsorship Opportunities booklet: <https://lnkd.in/gKqA4nh>

Along with the email - Facebook, LinkedIn, Instagram and Twitter all have posts about ISMAR11 on GRAC: www.grac.org

Preliminary agenda: <https://www.grac.org/media/files/files/4407fbbd/ismar-2022-preliminary-agenda-flyer.pdf>

ISMAR 12. Call for expressions of interest

IAH, IAH-MAR Commission, UNESCO and ASCE call for the expressions of interest.

Those institutions willing to host the premier symposium on MAR, ISMAR 12 in 2025, please, inform IAH-MAR Commission co-chairs using the site's contact link in the browser: <https://recharge.iah.org/contact-us>

Expressions of interest will be very welcome. The process to select the hosting city should be completed before the end of 2021.



ISMAR 10 website will not be operative any longer from this week

ismar10.net will not be on line from this week. It has covered its function from 2018 November but it is time to move forward.

Please check whether you want to download any resource from the results window browser.



The most important issues will be available in ISMAR 11 website shortly:
<https://www.ismar11.net/>

PRESENTIAL WORKSHOPS ON MAR

Managed Aquifer Recharge Site #5 (MAR 5) and Gila River Interpretive Trail. Workshop

On October 22, 2021, the Gila River Indian Community hosted over 60 people at the Managed Aquifer Recharge Site #5 (MAR 5) and Gila River Interpretive Trail. This opportunity was offered to those who attended the WRRRC's 2021 Annual Conference, Tribal Water Resilience in a Changing Environment. As noted in the Interpretive Trail pamphlet received by all, "MAR 5 is a water recharge project that operates as a storage system, and serves as the first portion of the Community's 'Return to the River' program."

Source: Sharon Megdal's Water Resources Research Centre at Arizona State University. Weekly Wave 29 Oct 2021.


NEW OUTSTANDING PUBLICATIONS ON MAR

MDPI's Special Issue "Managed Aquifer Recharge—Enhancing the Use of Alternative Water Sources for Subsurface Storage and Soil Aquifer Treatment"


This special issue, including 9 papers, is led by Guest Editors: Daniel Kurtzman and Christoph Schueth (MARSOLut).

Special Issue Editors

Dr. Daniel Kurtzman E-Mail Website
 Guest Editor
 Institute of Soil, Water and Environmental Sciences, The Volcani Center, Agricultural Research Organization, Rishon LeZion 7505101, Israel
 Interests: vadose-zone and groundwater hydrology; managed aquifer recharge; interactions between agriculture and water resources



Prof. Dr. Christoph Schueth E-Mail Website SciProfiles
 Guest Editor
 Technical University Darmstadt, Institute for Applied Geosciences, Schmittspahnstr. 9, D-64297 Darmstadt, Germany
 Interests: Water resources management; managed aquifer recharge; hydrochemistry; isotope hydrology; contaminants in the water cycle



Special Issue Information

Dear Colleagues,

Managed Aquifer Recharge (MAR), that takes advantage of available storage in the subsurface, is defined as the intentional infiltration of water into aquifers with the purpose of either later recovering that water for different uses (agricultural, industrial or urban), or obtaining an environmental benefit. In addition, water quality can be improved through MAR due to chemical and biological reactions during underground transport of the infiltrated water. Using alternative water sources or excess water for MAR can therefore help to increase water availability in general, and in periods of high demand. With this, MAR can be a key tool for tackling water scarcity by linking water reclamation, water reuse, and integrated water resources management in a long-term strategy. The continuous rising prices of surface storage, the decline in natural recharge and the development of new sources of residual waters turned MAR to one of the growing branches in hydrology and water resources both in research and practice.

This Special Issue welcomes manuscripts on laboratory, field and modeling studies, including exemplary case studies, related to any kind of managed recharge technique (infiltration ponds, surface spreading, unsaturated and saturated-zone injection wells, bank filtration, etc.) of any type of water (treated wastewater, storm-water runoff, urban drainage, excess desalinated water, etc.) to any spot of aquifer (alluvial, sedimentary, fractured, karstified, confined, unconfined, etc.). For any purpose (seasonal-multiple storage, SAT, combat of sea-water intrusion, etc.). We call on hydrogeologists, engineers, bio-geo-chemists, geo-physicists, soil and water scientists and any other expert in the science and practice of MAR that have novel and relevant aspects to contribute to this Special Issue. All manuscripts will undergo a high-standard peer review process.

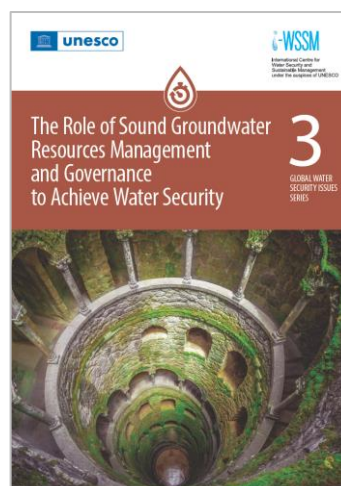
Dr. Daniel Kurtzman
 Prof. Dr. Christoph Schueth
 Guest Editors

All articles can be accessed freely online at:

[https://urldefense.com/v3/https://www.mdpi.com/journal/water/special_issues/Managed_Aquifer_Recharge_!!BgLsOpJlI828ExNkrb-offUiY_8bulY3H2BJysOVujc1J6yX_aI2V-eoLJBSKpdiZH4by30vU\\$](https://urldefense.com/v3/https://www.mdpi.com/journal/water/special_issues/Managed_Aquifer_Recharge_!!BgLsOpJlI828ExNkrb-offUiY_8bulY3H2BJysOVujc1J6yX_aI2V-eoLJBSKpdiZH4by30vU$)

Global Water Security Issues (GWSI) Case Studies: Water Security and the Sustainable Development Goals. 2020 Edition.

The new 2020 GWSI and i-WSSM edition is finally on line. This book includes MAR-related chapters.



Download freely from: <https://unesdoc.unesco.org/ark:/48223/pf0000379093>

Previous GWSI-WSSM books:

2018: <https://unesco-iwssm.org/board/select?bbsNo=0000000068&nttSn=20>

2019: <https://unesco-iwssm.org/board/select?bbsNo=0000000064&nttSn=35>

New Book on US-Mexico Water Management Cooperation Available: Contemporary visions for cooperation and water management on the Mexico-US border

El Colegio de la Frontera Norte has issued a new book: “Visiones contemporáneas de la cooperación y la gestión del agua en la frontera Mexico-Estados Unidos” (Contemporary visions for cooperation and water management on the Mexico-US border), edited by José Luis Castro Ruiz, Alfonso Andrés Cortez Lara, and Vicente Sánchez Munguía.

This collection of papers by scholars from Mexico and the US, with content in both Spanish and English, contains a chapter by Mary-Belle Cruz Ayala, a post-doctoral researcher at the WRRRC, and others on the overuse of groundwater in northwestern Mexico and the implementation of Managed Aquifer Recharge (MAR) for mitigating climate change impacts.

The book ranges geographically from Baja California to the Rio Bravo/Rio Grande region, encompassing the binational water framework, water security and climate change, transboundary groundwater, and local governance. It is an excellent summary of successful examples of collaboration between Mexico and the US, as well as the challenges faced when conducting binational projects.

No info has still been received about this book’s access.

Source: Sharon Megdal’s Water Resources Research Centre at Arizona State University. Weekly Wave 29 Oct 2021.

WEBINARS

PI RURAL 2-day Dialogue Seminar. Best practices in groundwater quality management. Tuesday 26 and Thursday 28 October

The Rural Water and Food Security Webinar on Best Practices in Groundwater Quality Management included leading EU and Chinese experts’ opinion on the status of groundwater quality in the EU and China and their recommendations on its protection for future generations.

The webinar ran in Zoom and had simultaneous translation into English and Chinese. It was recorded, thus, please stay alert to the video release.



Rural Water and Food Security
An action supported by the European Union

CHINA
EUROPE
Water Platform

Thank you Dr. Bjørn Kaare Jensen (GEUS) & Lars Skov Andersen (CRMC) for reporting.

Charla técnica AIH - Capítulo Chileno. Enfoques de Recarga Integrada de Acuíferos para garantizar la sostenibilidad y disponibilidad de agua dulce en entornos de aguas subterráneas salinas (in English and Spanish)

The International Association of Hydrogeologists - Chilean Chapter is pleased to invite you to the seventh technical talk of this 2021: "Integrated Aquifer Recharge Approaches to ensure sustainability and freshwater availability in saline groundwater environments".

Date: 11 November at 13:00 (Santiago, Chile)

Speaker: Dr. Niels Hartog (Professor at the University of Utrecht and Researcher at the Institute for Water Research KWR (The Netherlands))

Language: English, with simultaneous translation into Spanish.

Cost: Free of charge.

Deadline for registration: 11 November until 12:00 noon.

Charla técnica AIH - Capítulo Chileno

Estimada comunidad:
La Asociación Internacional de Hidrogeólogos - Capítulo Chileno tiene el gusto de invitarlos a la séptima charla técnica de este 2021: "Enfoques de Recarga Integrada de Acuíferos para garantizar la sostenibilidad y disponibilidad de agua dulce en entornos de aguas subterráneas salinas"

Fecha: 11 de noviembre a las 13:00 horas (Santiago, Chile)

Relator: Dr. Niels Hartog (Profesor de la Universidad de Utrecht e Investigador en el Instituto de Investigación del Agua KWR (Países Bajos))

Formato: Webinar

Idioma: Inglés, con traducción simultánea en español

Costo: Sin costo, apuntándose en el formulario cuyo link se encuentra más abajo.

Fecha límite de inscripción: 11 de noviembre hasta las 12:00 horas.

Inscription: <https://support.google.com/drive/answer/6283888>

Conference "Agua para el futuro". Mendoza, Argentina (in Spanish)

During November 2-4 will general Dpt. of Irrigation in Mendoza is hosting an event on line about Water for the sustainable development, including MAR issues.



Stay tuned for the videos captured during the conference, to be announced ASAP.

Thank you Dr. Juan A. Pina for reporting.

Conference series on MAR and water reuse for agriculture (in Spanish)

Organized by Chihuahua's government of the State, JMAS is drafting a series of conferences. The event will take place this December 2nd and 3rd. Stay tuned for the link in the next bulletin. Organizers are still drafting the program. In case you want to participate, please email [cjnavarro.jmas\(a\)gmail.com](mailto:cjnavarro.jmas(a)gmail.com)

Thank you Dr. Carmen Navarro for reporting.

U. Birmingham Li Siguang Annual Lecture. Yan Zheng's speech

As a part of the University of Birmingham's COP26 events, Prof. Yan Zheng of SUSTech, an IAH-MAR Commission co-chair, was invited to give the China Institute's 2021 Li Siguang Lecture, broadcasted virtually on 28th October 2021.

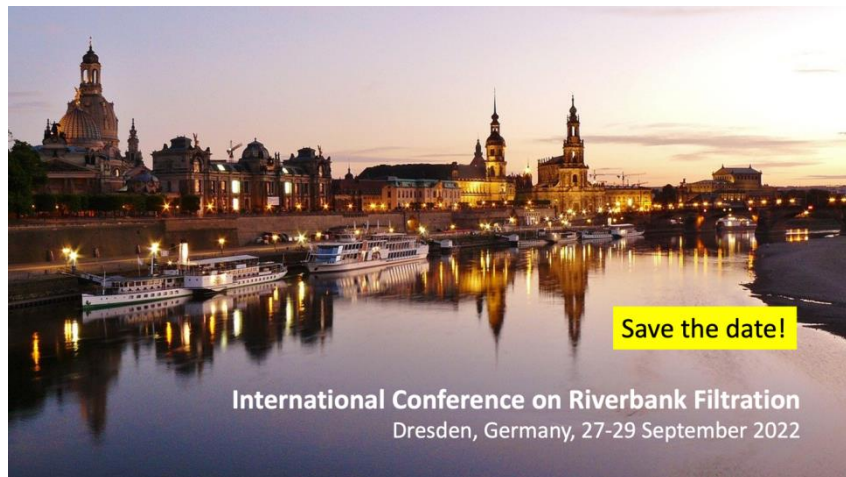


Youtube Premier: [China Institute: Annual Li Siguang Lecture - YouTube](#)

Recorded video: [22401 - Full Length Edit - V50810_2.mp4 - 08-10 - Frame.io](#)

Save the date: International Conference on Riverbank Filtration, 27-29 September 2022 in Dresden, Germany

The conference is organised by the University of Applied Sciences Dresden (more information will be provided in the next newsletters).



Thank you Dr. Catalin Stefan for reporting.

MORE ACTIONS

The Whatsapp group on Aquifer Recharge Management keeps working even after the 47th, with vivid debates

To join just scan the QR code.



WhatsApp Group

Aquifer recharge management



More info: <https://iah2021brazil.org>.

Bringing MAR expertise to the 47th IAH congress in Sao Paulo

Daniela Benedicto van Dalen has proposed an initiative of scientist and consultants to share knowledge and best practices on Managed Aquifer Recharge technology with the Brazilian groundwater experts and governmental authorities.



Main Theme
AQUIFERS: STORAGING WATER FOR THE FUTURE



SÃO PAULO
 BRAZIL
 SEPTEMBER
 20th - 25th, 2020

Topics

1	Crystalline hydrogeology	13	Groundwater in coastal zones
2	Deep Tubular Wells in Contaminated Areas	14	Groundwater quality and pollution processes
3	Economic impact and repercussion on society of the use of wells	15	Groundwater sustainability and governance
4	Environmental isotopes	16	Groundwater footprint and virtual water
5	Environmental Law for Soil and Groundwater Protection and Management	17	Integrated Groundwater and Surface Waters Monitoring and Management
6	Education in hydrogeology, geosciences and environment	18	Integration of Groundwater Flow and Geochemistry
7	Geophysics applied to hydrogeology	19	Karst Hydrogeology
8	Groundwater assessment and management	20	New Ways of Conceptualizing Groundwater Velocity, Residence Time, and Age
9	Groundwater availability and aquifer overexploitation	21	Tools, methods and models to study groundwater
10	Groundwater and agriculture	22	Urban hydrogeology
11	Groundwater and climate change	23	Use of Simulations in Groundwater Education
12	Groundwater and socio-economic development in Latin America		


A potential IAH MAR Commission WG will be studied in the coming weeks.

Some more information will be shared shortly.

FEMAR: FEmale scientists for the use of reclaimed water through Managed Aquifer Recharge in North Africa

The project FEMAR – FEmale scientists for the use of reclaimed water through Managed Aquifer Recharge in North Africa is exploring the potential of an intelligent, artificial groundwater recharge system to contribute to sustainable water resource management in Egypt and other North African countries. With the help of a managed aquifer recharge (MAR) pilot system in Egypt, the project will demonstrate the feasibility of unconventional, near-natural water management concepts and increase acceptance...

FEMAR: FEmale scientists for the use of reclaimed water through Managed Aquifer Recharge in North Africa



© Central Arizona Project

In large parts of North Africa there is a critical water shortage, which is increasingly exacerbated by ongoing developments. In Egypt in particular, economic development, agricultural growth and urbanisation are worsening the situation. In order to meet growing water demand, groundwater resources are increasingly being used, which in some areas leads to overexploitation and salinization. The discrepancy between increasing water demand and limited water resources makes unconventional water supply concepts and the treatment of wastewater for reuse essential to the sustainable development of the region.

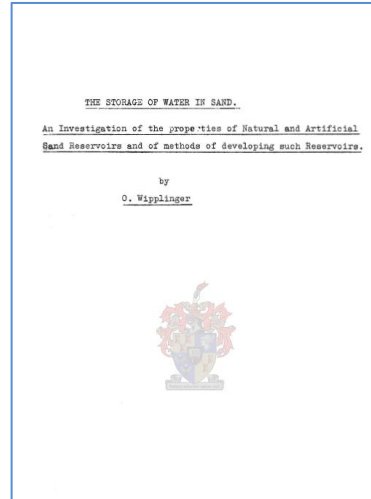
More info: <https://www.adelphi.de/en/project/femar-female-scientists-use-reclaimed-water-through-managed-aquifer-recharge-north-africa>

Thank you Anika Conrad (Adelphi) for reporting.

Old publications on MAR (another drop of nostalgia...)

The selected drop is...

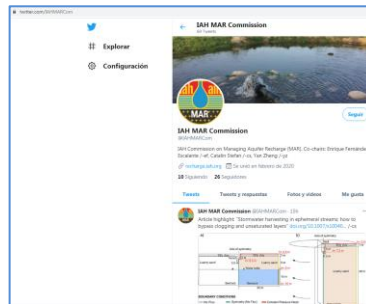
The storage of water in sand: an investigation of the properties of natural and artificial sand reservoirs and of methods of developing such reservoirs. Wipplinger, O. (Otto) (1953). Thesis (D.Sc.)--Stellenbosch University, 1953.



Download: <https://scholar.sun.ac.za/handle/10019.1/54014>

IAH Commission on Managing Aquifer Recharge. Twitter account

Please, follow the Twitter account of the IAH Commission on Managing Aquifer Recharge at <https://twitter.com/IAHMARCom>



Previous IAH-MAR Newsletters

Please, remember that you can access the previous newsletters in our website: <https://recharge.iah.org/newsletters>



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

Thank you very much for your kind attention

Best regards

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



@IAHMARCom

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

Sister sites:

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



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



@4dina_mar

Get ready for the next main event on MAR:
www.ismar11.net

