

Dear Ladies and Gentlemen, dear MAR family, greetings!

Please find some news on MAR for 2020 October

Online Conference “Addressing Groundwater Resilience under Climate Change” 29-30 October 2020. IWRA-IAH-UNESCO.

IWRA international conference already has over 1,000 participants booked. More info and free registration is still open at: www.iwraonlineconference.org



Although the final program has not been released yet, the **session 2-8, specific on MAR**, will have five important contributions:

Launch of session 2B on “Climate Change Effects on Groundwater Resilience (Pollution & Remediation)”. Lineup:

1. Managed Aquifer Recharge as a source of emerging pollutant in groundwater
2. Site suitability mapping for ‘Managed Aquifer Recharge (MAR)’ implementation in Poralai and Hangol, the coastal basins of Baluchistan, Pakistan
3. Assessing the potential of artificial groundwater recharge: case study of Palla Road wellfields, Botswana
4. Co-managing floods and droughts on the Gangetic Plain through a novel MAR approach
5. The impact assessment of climate change on groundwater resource development in the Vietnamese Mekong Delta. Case study: Tra Vinh Province
6. Water quality regulations and guidelines for Managed Aquifer Recharge - International synopsis, contrast and lessons learned
7. Preliminary results of Rooftop Rainwater Harvesting and shallow well infiltration pilot project in the Danube-Tisza Interfluve, Hungary.

From, respectively: Mahmood; Hayat; Rankgomo; Pavelic; Tuan; Fernández Escalante and Szabo.

47th IAH Congress, Brazil. Parallel virtual events. Special Webinar on MAR

Brazilian organizers have kindly included MAR in their program of on-line seminars (Thanks Everton, Hirata...).

Online event – October 22th, 2020: Detailed program (imminent) and free registration at: <https://abas.iah2020.org/en/>



PROVISIONAL program:

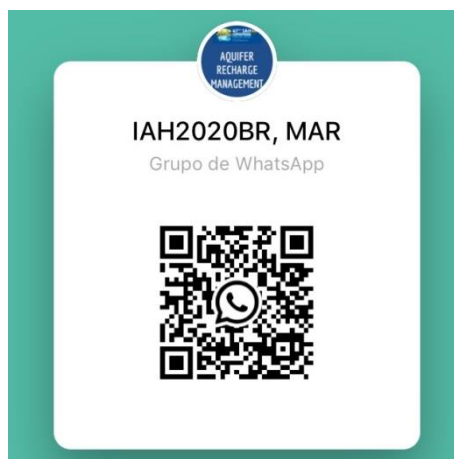
October 22nd, 11:30h São Paulo time (7:30AM PST, 16:30 h Madrid time).

Water for future generations: the urgent need to increase recharge?

1. IAH Indian National Chapter: Prof Singhal. "How India has become the country with more Monitored Aquifer Recharge (MAR) systems in the world".
2. Adam Hutchinson: "Increasing groundwater basin yield with managed aquifer recharge".
3. Enrique Fernández Escalante. "How MAR is facing up climate change adverse impacts".
4. Early Career IAH Brazil: Bruna Soldera. "Recharge and quality, compensation for water use".


Presentations will follow with questions from participants.

The WhatsApp group on "Aquifer Recharge Management" keeps advancing well, with more than 150 participants. Pls, scan the QR code to join.



MAR in India. New events have been announced

The Centre for Water Resources has released their final brochure of the Indian National Groundwater Conference (INGWC-2021) being organized at JNTU Hyderabad during March 22-24, 2021. Organizers request you to kindly share the brochure to all your network people who could contribute the scientific papers and sponsor the conference.



**FOURTH INDIAN NATIONAL GROUNDWATER
CONFERENCE (INGWC-2021)**

With focal theme on

*Groundwater Management in Arid and Semi-Arid Regions of Hard
Rock Terrains*

and

VII Annual Convention of

Association of Global Groundwater Scientists (AGGS)

March 22-24, 2021

Organized
By

**Centre for Water Resources,
Institute of Science and Technology,
Jawaharlal Nehru Technological University Hyderabad,
Kukatpally Hyderabad**

and

**Association of Global Groundwater Scientists (AGGS),
Coimbatore, India**

In collaboration with

**Indian Institute of Technology, Hyderabad
CSIR-National Geophysical Research Institute,
Hyderabad**

Website: <https://jntuhist.ac.in/ingwc-2021>

Webinars about MAR, 2020 October

**IMMINENT: Latin-MAR webinar. La recarga gestionada de acuíferos (MAR) en Latinoamérica: Experiencias y retos (in Spanish).
October 15th; 11:30 h in Mexico City.**

Organizers report that there will be different talks about MAR cases in Latin-America, directed towards a Spanish speaking audience language to have a great audience and avoid language frontier.

One good thing is that there will be a virtual tour to see alive the San Luis Río Colorado infiltration lagoon and wetland.

Connection link at the bottom of the program:



Webinar

"LA RECARGA GESTIONADA DE ACUÍFEROS (MAR) EN LATINOAMÉRICA: EXPERIENCIAS Y RETOS"

Horario	Actividad
11:30 - 11:35	Introducción LatinMAR M. I. Adriana Palma Nava Introducción Red del Agua de la UNAM Dr. Fernando J. González Villareal
11:35 - 12:00	Raúl Campuzano Humberto Hernández <i>"MAR en México, San Luis Río Colorado"</i>
12:00 - 12:20	Roberto Navarro <i>"MAR en ICA"</i>
12:20 - 12:40	Edmundo Claro <i>"MAR en la zona central de Chile"</i>
12:40 - 13:00	Mario Basán Nickisch <i>"MAR para ganadería bovina en Argentina"</i>
13:00 - 13:25	Tour Virtual Raúl Campuzano <i>"San Luis Río Colorado, lagunas de infiltración y Humedal Cucapá"</i>
13:25 - 13:30	Cierre Anuncios: BSMAR, ISMAR TI

Programa: Jueves, 15 de octubre, 2020

Link de Zoom: <https://bit.ly/3mXM7Cf>

Former webinar in India: Artificial recharge –Integrating science and technology.

Details exposed in the banner:

- National Ground Water Lecture Series -
WEBINAR on
“Artificial Recharge - Integrating Science and Technology”
3rd October 2020, Time 16:00 to 18:00 hrs

As the groundwater stress is increasing and expanding Artificial Recharge and Rain Water Harvesting are discussed at various forum. We all agree that it should be implemented rigorously with active participation of community and all stake holders. But it is also important to take into consideration the aquifer morphology, hydraulic properties, groundwater resources behavior and quality of that area, so that recharge to the aquifer is more effective and optimum benefit is accrued.

Panelist 1:



Sh G C Pati
Chairman
Central Ground Water Board &
Central Ground Water Authority

Panelist 2:



Sh Avinash Mishra
Advisor
Water, Land Resources, Environment & Forest
NITI Aayog

Moderator: Dr Dipankar Saha, Secretary, INC-IAH

Programme Schedule:

16:00 – 16:10 hrs: Welcome address by Prof D C Singhal, President INC IAH
16:10 – 16:50 hrs: Talk by Sh G C Pati
16:50 – 17:30 hrs: Talk by Sh Avinash Mishra
17:30 – 17:55 hrs: Participants view and interaction
17:55 – 18:00 hrs: Vote of Thanks by Dr S Sekhar

Webinar link: <https://meet.google.com/wxh-jsfa-atd>

This National Ground Water Lecture Series is organised by **Indian National Chapter of International Association of Hydrogeologists (INC - IAH)**. The IAH is the largest scientific and educational charitable organisation in the world for scientists, engineers, water managers and other professionals working in the fields of groundwater resource planning, management and protection. The Indian National Chapter of IAH is established in 1984: website www.inciah.org.

Event Organiser: Dr S S Vittala, srisrivittala@gmail.com

New IWMI-CGIAR publication: “Global assessment on the UTFI form of MAR”

It’s been a long time coming. Here is the link to a blog about this work:



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Tapping into the ground to counter floods and droughts

September 23, 2020 672 1

By Faiz Alam, Researcher - Water Resources/Agricultural Water Management (IWMI) and Paul Pavelic, Senior Researcher - Hydrogeology (IWMI)



A scientist measuring the water collected from a pond created under the Underground Taming of Floods for irrigation (UTFI). Photo by Prashanth Vishwanathan / IWMI

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<https://www.iwmi.cgiar.org/2020/09/tapping-into-the-ground-to-counter-floods-and-droughts/>

The link to the report is given within.

Thanks Paul Pavelic for reporting... pieces of news from Asia are scant...

INTERREG project DEEPWATER-CE share their webinar results

The seminar hosted last September about good practices and benchmark analysis on MAR solutions in the EU shares their results.

Program: <https://bit.ly/3dp0Ce1>

YouTube channel: <https://bit.ly/3dsQCK0>

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

The selected drop has been a set of papers:

U.S. Geological Survey Artificial Recharge Workshop Proceedings, April 2-4, 2002, Sacramento, California. Editors George R. Aiken and Eve L. Kuniarsky, U.S. Geological Survey Open-File Report 02-89

<https://water.usgs.gov/ofw/pubs/ofr0289/ofr0289.pdf>

U.S. Geological Survey Artificial Recharge Workshop Proceedings, April 2-4, 2002, Sacramento, California

George R. Aiken and Eve L. Kuniarsky, *editors*

U.S. Geological Survey
Open-File Report 02-89

BSMAR 2020. Wrap-up

—by Mike Block and Mike Hulst, BSMAR 17 Co-Chairs.

Thanks Mikes for reporting...

The 17th Biennial Symposium on Managed Aquifer Recharge (BSMAR 17) has come and gone, and it proved to be very successful virtual conference as

judged by the 310 registrants, positive comments and the revenue generated for Arizona Hydrological Society (AHS) and the AHS Foundation.

This year's Keynote speaker, F. Martin (Marty) Ralph, Ph.D., Director, Center for Western Weather and Water Extremes (CW3E) Scripps Institution of Oceanography, University of California, San Diego - "*Bridging the Gap between Atmospheric Science and MAR!*"

The Plenary Session has been "*Managed Aquifer Recharge and California's Sustainable Groundwater Management Act (SMGA): Opportunities and Challenges*".



Photo credit to Richard Siegel, SRP

NEXT RELEASE

-Advances in the UNESCO-IHP-GRIPP book on MAR will be announced too. We are eager to see this publication on line!...

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And that's all by now... please, keep reporting...

Thank you very much for your kind attention

Best regards

Enrique F. Escalante of behalf of IAH MAR Commission co-chairs.

<http://www.iah.org/recharge/>

<http://dina-mar.es/category/Noticias.aspx> (temporarily out of order)

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

Get ready for our IAH-MAR Commission

Next main meeting, ISMAR 11, CA, April 11-15 2022

