

Dear Ladies and Gentlemen, dear MAR family, greetings!

Please find some news on MAR for 2021 March

This March 22th, as you know, will be the world Water Day: <u>https://www.worldwaterday.org/share</u>

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48th IAH Congress, Brussels, Belgium. 6-10 September 2021

UNESCO, IAH and other important institutions have submitted a request to host a session in the World Water Week

TIME FOR WEBINARS

-IAH webinar series. Mexican chapter. El liderazgo de las mujeres en el agua subterránea en México (in Spanish)

- Online seminar on "Planning a riverbank filtration scheme"

- Managing Aquifer Recharge: A Showcase for Resilience and Sustainability

- Funcagua Guatemala webinar on water security and MAR (in Spanish)

-Online workshop on "Artificial recharge in Gulf Cooperation Council countries"

-Workshop on MAR in China

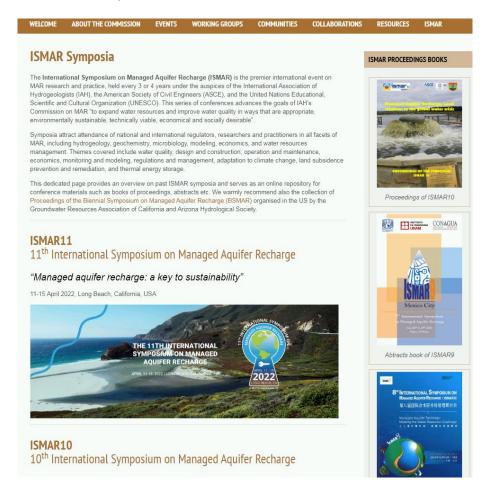
Old publications on MAR (another drop of nostalgia...). The CRIS-MAR 2009 (in Spanish) More MAR activity in India



IAH-MAR commission website has included the results from the whole ISMAR conferences

IAH-MAR Commission cochairs have been gathering materials and information from all the International Symposium on Managed Aquifer Recharge, ISMARs (ten editions).

Most of these Symposia results are available in their website. Some more will be posted in the coming weeks. Please notice that a few ones are restricted due to copyright and cannot be published.



We are looking forward these will be useful for the community. Comments welcome. https://recharge.iah.org/ismar

Indian National Groundwater Conference (INGWC-2021)

It is proposed to organise INGWC-2021 with the main focus on "Groundwater Management in Arid and Semi-Arid Regions of Hard Rock Terrains" during March 22-24, 2021 coinciding with world water day 2021.

These conference series (INGWC's and IGWC's) have attracted attendance by national and international experts in all facets of hydrogeology, geochemistry, microbiology, modeling, economics, water resources management and water



supply. It has brought together water utilities, practitioners, hydro-geologists, consultants, the wider water industry, all levels of government, farmers, academicians and students. The present conference is aimed to bring Scientists, Researchers, Students, Engineers, Water Resources Specialists, Government Administrators, NGOs and all those interested in groundwater and environmental problems to a common platform and offer the opportunity to exchange ideas, knowledge, experience, techniques and know how in various aspects of groundwater research carried out in the last few decades in India and elsewhere.



Program:

	JNT Un	iversity, <u>Kukatpally ,</u> Hyderabad	
Date	Time	Sessio	ns
Mar. 22, 2021	10:00 a.m11:30 a.m.	Inaugural	Session
	11:30 a.m12:00 Noon	Tea Br	eak
	12:00 Noon -1:30 p.m.	Plenary Se	ession-I
	1:30 p.m 2:30 p.m.	Lunch E	Break
	Technical Sessions	Track-I	Track-II
	2:30 p.m4:15 p.m.	TS-1: Ground Water Exploration	TS-5: Groundwater Quality and Environment
	4:15 p.m 4:30 p.m.	Tea Br	eak
	4:30 p.m 5:30 p.m.	Colloqu	
Mar. 23, 2021	10:00 a.m11:30 a.m.	Plenary Se	ssion-II
	11:30 a.m11:45 a.m.	Tea Br	eak
	11:45 a.m1:30 p.m.	TS-2: Groundwater Assessment	TS-6: Groundwater Pollution and Remediation
	1:30 p.m2:30 p.m.	Lunch B	Break
	2:30 p.m4:15 p.m.	Session TS-3 Groundwater	Session TS-7 Groundwater
		Recharge Processes	Hydraulics and Modeling
	4:15 p.m 4:30 p.m.	Tea Br	eak
	4:30 p.m 5:30 p.m.	AGGS Annual General Body Meetin	g
Mar. 24, 2021	10:00 a.m11:30 a.m.	Plenary Sea	ssion-III
	11:30 a.m11:45 a.m.	Tea Br	eak
	11:45 a.m1:30 p.m.	TS-8 Groundwater Management	TS-9 Groundwater in Watershed Management
	1:30 p.m2:30 p.m.	Lunch B	Break
	2:30 p.m3:45 p.m.	TS-4 Effect of Climate Change on	TS-10 Water Related Disasters
		Groundwater and Environment	and Hydrological Changes
	3:45 p.m4:00 p.m.	Tea Br	eak
	4:00 p.m5:30 p.m.	Valedictory	Session

More info: https://jntuhist.ac.in/ingwc_2021



INC-IAH. Online Seminar. February 27-28, 2021

The Indian National Chapter of International Association of Hydrogeologists (INC-IAH) conference finished successfully. It included a MAR session.



Results shortly available. More info: http://inciah.org/

The World Bank is working on a global study to capture new or notable solutions to water storage. Call for action.

The World Bank is working on a global study to capture new or notable solutions to water storage challenges that are being faced by their clients. They are currently seeking nominations of planning approaches or projects that help address water (in)security through storage.

They are looking for both green and grey approaches, as well as novel ways to integrate these approaches from a systems perspective.



More detail about the types of challenges requested to address and a submission form can be found in:

https://experience.arcgis.com/experience/5e8fa0aa66844e9bb1f73039351fea75/pag e/page_1/



International Association of Hydrogeologists Commission on Managing Aquifer Recharge



Thanks Dr. Melissa Castera for reporting the call.

International Symposium on Geofluids, to be held on 7-9 July 2021

The ENeRAG H2020 project organizes the symposium, together with the József and Erzsébet Tóth Endowed Hydrogeology Chair Foundation and the Eötvös Loránd University, Budapest Hungary.

Main Topics and planned Sessions:

- Energy flow systems and related fluids in the lithosphere
- Managed aquifer recharge and groundwater flow systems
- Geoenergy, thermal water and hydrocarbon systems
- Natural contamination and hazards of geofluids
- Fluid-rock interactions and hydrogeochemical reactions

Abstract submissions (max. 2000 characters) will be accepted until 31 March 2021. More technical info on the requirements of the abstract can be found <u>here</u>.





More info: <u>https://geofluids2021.hu/circular/2021-03-03.html</u> Thank you Szőnyi Judit for reporting.

ISMAR 11. Call for abstracts

The premier conference on MAR, ISMAR 11, CA, April 11-15 2022



Call for abstracts open: https://airtable.com/shrGJrx6WU4UG9zUv

Stay connected by signing up for the ISMAR11 mailing list for the latest information on abstracts, registration information, etc.

More info: https://www.ismar11.net/#about

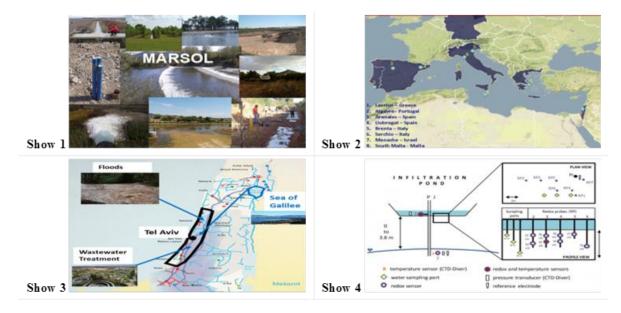
Managed Aquifer Recharge (MAR): Science; Technology; and Applications Worldwide (1.19.21). MARSOLut project's activity at EmeraldPlanet TV

The world-wide EmeraldPlanet International Foundation® movement, EmeraldPlanet TV® programs and Dr. Sam Hancock are linking millions of professionals and citizens around the globe through a practical community-by-community identification, evaluation, broadcasting, and promotions weekly television program and selected The Emerald Mini-Treks®.

Last January 19th was recorded a MARSOLut project's program, where participated:

- Dr. Joao-Paulo Lobo Ferreira, Principal Research Officer, Portugal National Civil Engineering Laboratory (LNEC).
- Prof. Christoph Schüth (Germany), MARSOL and MARSoluT Projects Coordinator, Technology University of Darmstadt.
- Dr. Daniel Kurtzman (Israel), Agricultural Research Organization (ARO).
- Prof. Xavier Sanchez-Vila, (Spain), Polytechnic University of Catalonia, (UPC).

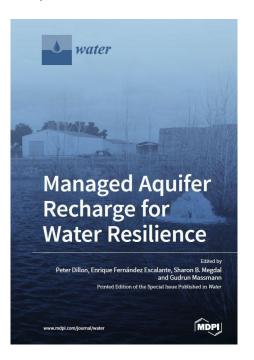




Welcome to join in this worldwide movement by watching <u>https://www.emerald-planet.org/17584/</u>

Water Journal special issue. 23 papers have been gathered in a book. Imminent!

In a few days all those papers (23) selected from ISMAR 10 conference and published open access in the Water Journal, special edition will be published in a special issue of Water (ISSN 2073-4441). This one belongs to the section "Water Resources Management, Policy and Governance".



https://www.mdpi.com/journal/water/special_issues/ISMAR10_2019



IAH MAR Commission renewal procedure and 2020 memory of activities already submitted

Last week IAH-MAR co-chairs submitted the template to renew the IAH MAR Commission. The memory for 2020's activities was sent to IAH Executive too.

Thanks for the participation of those partners who have provided some help.



The previous memories of activities are in our site: <u>https://recharge.iah.org/recent-annual-reports</u>

48th IAH Congress, Brussels, Belgium. 6-10 September 2021.

We remind that the submission of abstracts is already open. There is a specific session on MAR (topic 8).



More info: https://iah2021belgium.org/programme/sessions-topics/

UNESCO, IAH and other important institutions have submitted a request to host a session in the WWW

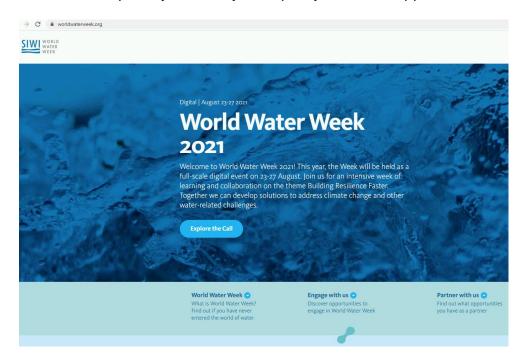
Under the title: Climate-Proofing Water Supply: Building Resilience through Managed Aquifer Recharge (MAR), UNESCO, IAH, IWMI, Global Environment Facility, Swiss



Agency for Development and Cooperation, African Ministers' Council On Water, International Association for Water Law (AIDA), Commonwealth Scientific and Industrial Research Organisation, Southern University of Science and Technology, China (SUSTech), National Centre for Groundwater Research and Training Australia (NCGRT) and FAO have submitted a session.

Objectives:

MAR, a water supply climate adaptation technology, contributes directly and indirectly to six SDGs (3, 6, 9, 11, 12 and 14) in Agenda 2030. The primary objective is to disseminate knowledge and to share experience with participants of World Water Week 2020 on the initiation, sustainability and economics of this cohort of studies. By 2019, MAR has reached an estimated 10 km3/year globally, or about 1% of global groundwater extraction in all countries. With heightened awareness MAR should exceed 10% of global extraction, based on experience where MAR is more advanced, to sustain quantity, reliability and quality of water supplies.



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

TIME FOR WEBINARS

IAH webinar series. Mexican chapter. El liderazgo de las mujeres en el agua subterránea en México (in Spanish)

The purpose of this event is talking about women's leadership in work environment related to groundwater in Mexico. The event will be four weekly sessions transmitted by zoom and Facebook live. Dates will be 10, 17, 24 and 31 March, 18h, (GMT-6) Hora en Ciudad de México, CDMX.



of Hydrogeologists Commission on **Managing Aquifer Recharge**



8th March 2021

Facebook live. Meeting ID: 858 7782 5437. Access code: 947809. More info: https://www.facebook.com/Asociaci%C3%B3n-Internacional-de-Hidroge%C3%B3logos-Capitulo-Mexicano-113751694096954

- Online seminar on "Planning a riverbank filtration scheme"

University of Applied Sciences Dresden on 17th March 2021



International Association of Hydrogeologists Commission on Managing Aquifer Recharge

Webinar 2: " Date: 17 March	ebinar series on Managed Ao Planning a riverbank filtratio	
	-	n scheme"
fime: 10:00 – 1	2021	
	1:30 hours Central European Tim	ne
Notivation		
has advanced rears and the 2019). Riverbar supply in Europ as a water mar disseminate RI vebinar is the s	ndwater replenishment known as r due to the high worldwide ground emergence of new technologies f ik filtration (RBF) is a technique of f e for more than a century and is int agement technique in other parts (BF knowledge and experiences to econd in a series of webinars on R by the Division of Water Sciences 2	water abstractions in the last or water treatment (Dillon et a MAR and has been used for water creasingly being used conscious of the world. With the intention of a growing interest group, the BF as a technique of MAR that
Schedule and		at the TTTW Dresden.
hem.	I cover the topics in the following so	chedule, but may not be limited
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hem. Central European Time 09:45 – 10:00 10:00 – 10:05	Topic & presenter Log-in by participants and technical checks Introduction to MAR-WEB series - <i>Cristina Sandhu</i> Feasibility assessment for a RBF	Content - MAR training series, topics an dates - Estimation of geohydraulic parameters - Drilling of exploratory wells and interpretation of borehol

For more information contact the organisers at mariss@htw-dresden.de

IAH MAR Commission webinar series

As committed, the first IAH-MAR Commission webinar, organized by the University of Arizona and IAH-MAR, will be March 22nd during the World Water Day:

- Managing Aquifer Recharge: A Showcase for Resilience and Sustainability



World Water Day Special Webinar Managing Aquifer Recharge: A Showcase for Resilience and Sustainability



Celebrate World Water Day on Monday afternoon, March 22, when the Water Resources Research Center hosts an informative panel discussion on the forthcoming UNESCO volume, "*Managing Aquifer Recharge: A Showcase for Resilience and Sustainability*." This UNESCO publication provides valuable resources for stakeholders and water managers considering managed aquifer recharge (MAR) as a mechanism to bolster climate resilience in the context of environmental, social, and economic project goals. The panel features two book editors along with authors of the volume's five North American case studies.

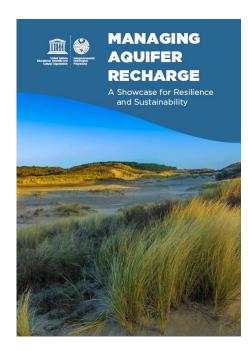
> March 22, 2021 3:30 - 5:00 PM Arizona Time / 6:30 - 8:00 PM US Eastern Time Registration: <u>tinyurl.com/UAWRRC-WWD-2021</u>



More info: <u>https://iah.org/events/world-water-day-special-webinar-managing-aquifer-recharge-a-showcase-for-resilience-and-sustainability</u> <u>https://wrrc.arizona.edu/world-water-day-special-webinar</u> Registration: tinyurl.com/UAWRRC-WWD-2021

During this webinar is foreseen the premiere of the **UNESCO-IHP-GRIPP book.** MAR. A show case for Resilience and Sustainability on 28 international MAR casestudies.





- Funcagua Guatemala webinar on water security and MAR (in Spanish) I Congreso Nacional de Seguridad Hídrica





Online workshop on "Artificial recharge in Gulf Cooperation Council countries" 17th March 2021



Sorry, no more info has been received.

Workshop on MAR in China

Online meeting - China-Denmark March 22nd 2021. Denmark (8:00-11:40) - China (15:00-18:40)





More info: https://www.mar-china.geus.dk/wp-content/uploads/2021/03/MAR-Chinaworkshop-Invitation-and-program-1.pdf

Old publications on MAR (another drop of nostalgia...). The CRIS-MAR 2009 (in Spanish)

The selected drop has been the Christ-mar 2009, just to remind that MAR publications may also have different formats as calendars, magnets, brochures and even a Xmas congratulations card.

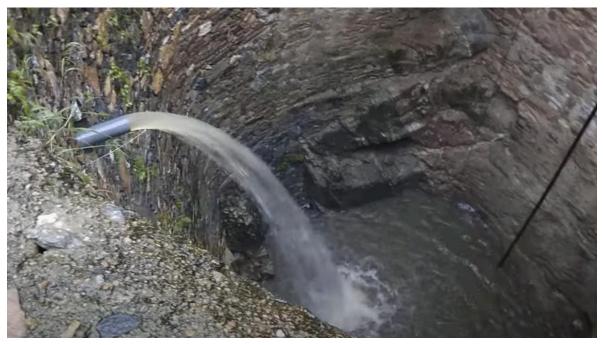






More MAR activity in India

Mr. Prahlad Soni has reported a new video on MAR posted in YouTube channel from Udaipur, Rajasthan, India: <u>https://youtu.be/xRQH2epc-zl</u>



Thank you Mr. Soni for the link.



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.



http://www.iah.org/recharge/ Sister sites: http://dina-mar.es (imminently operative again) http://china-mar.ujn.edu.cn/

