

Dear MAR family, greetings!

Please find some news on MAR for 2020 September

IAH's 2020 Online Annual General Meeting (AGM/General Assembly)

The 2020 Annual General Meeting of the International Association of Hydrogeologists will be held online at 1400 BST on 23rd September 2020. All members of the Association who have fully paid their subscriptions for the current year are entitled to attend the proceedings.

- The AGM agenda will include receiving the report and accounts for the period ended 31st December 2019. The full financial statement will be available beforehand on the annual reports pages of the IAH web site <https://iah.org/about/reports/management>.
- Minutes of the Annual General Meeting held on 24th September 2019 are available at: <https://iah.org/members/iah-meetings>.

If you would like to attend this year's online AGM, please register your interest via the link below (where we ask for basic contact information and your membership number). We will then send you the joining details, including a password, nearer the date. To help us with the arrangements please respond by the extended deadline of Thursday 17th September, 11.59PM GMT+1. Depending on level of interest, we are hoping to arrange enough online capacity for everyone who like to join the meeting. Register interest for IAH's online AGM: <https://www.surveymonkey.co.uk/r/IAH2020AGM>



Thanks Ian and Dave for this remind.

Registration for BSMAR17 and SWEPSYM

The Biennial Symposium on Managed Aquifer Recharge (BSMAR 17) is a 5 day virtual conference beginning Monday October 5, 2020.

Southwest Extreme Precipitation Symposium (SWEPSYM) sessions are on Wednesday and Thursday. SWEPSYM attendees can also participate in any of the BSMAR 17 sessions. More info: Please contact bsmar@ahssymposium.org for questions or visit: <https://bsmar.site/>

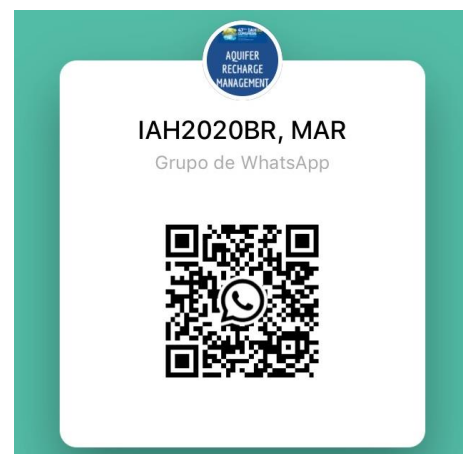


Postponed: 47th IAH Congress, Brazil. Parallel virtual events

Online event – september 21st to 24th, 2020: Program and free registration at:
<https://abas.iah2020.org/en/>



The WhatsApp group on “Aquifer Recharge Management” keeps advancing well, coordinated by Felipe Berton. Pls, scan the QR code to join. More than 100 members debate on MAR issues:



DATA	Simultaneous translation will be provided for Spanish and Portuguese 11h30 (BRT) 02:30 pm (GMT)	No simultaneous translation will be provided 16h00 (BRT) 07:00 pm (GMT)
9/21/2020	<p>Interview with John Cherry</p> <p>Mediador: Everton de Oliveira, HIDROPLAN ABAS The Groundwater Project Interviewed: John Cherry, The Groundwater Project</p>	<p>Groundwater and sanitation</p> <p>President: José Paulo Netto, President, ABAS</p> <p>Speakers: Federico Lagreca, CEO, SUEZ Brasil Oscar Cordeiro Netto, Director, ANA Geninho Zuliani, Congressman</p>
9/22/2020	<p>Waterwell: Why is legality not more attractive?</p> <p>President: Ricardo Hirata, Director, CEPAS USP</p> <p>Speaker: Stephen Foster, Professor, University College London</p> <p>Debater: Emilio Custodio, Professor, Universidad Politécnica de Catalunya</p>	<p>New contaminants of interest in groundwater</p> <p>President: Rodrigo Cunha, Project Manager, CETESB</p> <p>Speakers: Aluisio Soares, Technical Director, EVA Way Environmental Projects Rodrigo Cunha, Coordinator of Contaminated Sites Remediation Course, SENAC Willem Takiya, Environmental Coordinator, Arcadis</p>
9/23/2020	<p>Water security and climate change</p> <p>President: Ricardo Andrade, Director, ANA</p> <p>Speakers: Alice Aureli, Water Science Division, UNESCO Carlos Molano, Vice President – Latin America and the Caribbean, IAH</p>	<p>Legal advances for the use of groundwater in Brazil</p> <p>President: José Paulo Netto, President, ABAS</p> <p>Speakers: Claudio Oliveira, Ex President, ABAS Wladimir Ribeiro, Manesco Associados</p>
9/24/2020	<p>Groundwater and poverty</p> <p>President: Roberto Kirchheim, Hydrogeology Researcher, National Geological Survey</p> <p>Speakers: Jurgen Mahlknecht, Professor, ITESM</p>	<p>Hydrogeology in complex areas: Why do we live more by luck than by technique?</p> <p>President: Didier Gastmans, Researcher, UNESP</p>

Webinars about MAR, 2020 September

Virtual training, Webinars and On line debates about MAR

The UNESCO Centre on Groundwater in Nairobi is going on with Virtual training, Webinars and On line debates about MAR. The second one took place last Sept 8th, with the participation of some IAH-MAR Commission chairs.

First session: "Identification of recharge areas/ zones and sources of water for recharge in relation to Managed Aquifer Recharge".

Second: "UNESCO-IAH MAR connection, MAR mechanisms and Case studies"

The virtual sessions are proposed to take two hours per session and held quarterly in a Financial year. Info about the third in due time.

Thanks to Ms. Agnes Mbugua, Centre on Groundwater Resource Education, Training & Research in Nairobi, Kenya, for reporting



Webinar on “Managed Aquifer Recharge” (in Spanish). Sept. 18th

IMMINENT. Organized by CEDEME Costa Rica, the Universities of Dresden and Costa Rica, etc. will take place this Friday Sept. 18th from 09 to 10:30 h (Costa Rica time, 17:00 to 17:30 h Madrid time). The link to sign up is: <https://lnkd.in/gChqGc> Please, consider your attendance.



AUSPICIAR:  Bundesministerium für Bildung und Forschung 

MODERA:
 Andrea Suárez Serrano, Ph.D.
 Coordinadora General. Centro de Recursos Hídricos para Centroamérica y Caribe (HIDROCEC-UNA)

WEBINAR
**RECARGA
 GESTIONADA
 DE ACUÍFEROS**

18 de Septiembre
 9 am CRC

Roberto Ramírez, MSc.
 Investigación y Gestión Hídrica,
 SENARA.

Jose Pablo Bonilla, Ph.D.
 AYA


Enrique Fernández Ph.D.
 Grupo Tragesa
 Co-coordinator of the Commission
 on Managed aquifer Recharge of the
 International Association
 of Hydrogeologists (IAH)

Carlos Flores, Ph.D.
 Dirección General de Aguas (DGA) del
 Ministerio de Obras Públicas (MOP), Chile


ORGANIZAN:      

Good practices and benchmark analysis on MAR solutions in the EU. Sept. 23th


Within the framework of the INTERREG project, a series of online seminars are planned in English, Polish, Slovak, Hungarian and Croatian languages. The first event will be organised by TU München on 23 September 2020 and it will be dedicated to good practices and benchmark analysis solutions in the EU. More information here: <https://www.interreg-central.eu/Content.Node/DEEPWATER-CE/Germany-Invitation-1st-Webinar.pdf>.



Interreg
CENTRAL EUROPE
DEEPWATER-CE



TUM
Chair of Hydrogeology
TUM Department of Civil, Geo and Environmental Engineering
Technical University of Munich



**Managed Aquifer Recharge
Webinar 23.09.2020**

Held in the framework of the DEEPWATER-CE Interreg Project about developing an integrated implementation framework for Managed Aquifer Recharge solutions to facilitate the protection of Central European water resources endangered by climate change and user conflict

Time (UTC+2)	Agenda
13:30-14:30	Good Practice and Benchmark Analysis of MAR
14:30-15:00	Virtual Coffee Break
15:00-16:00	Transnational Decision Support Toolbox for designating potential MAR locations in Central Europe

Location:
ZOOM Conference Room
<https://tum-conf.zoom.us/j/97349866167>
Meeting ID:
973 4986 6167
Password: 346397
Contact:
Anne Imig (anne.imig@tum.de)
Dr. Arno Rein (arno.rein@tum.de)

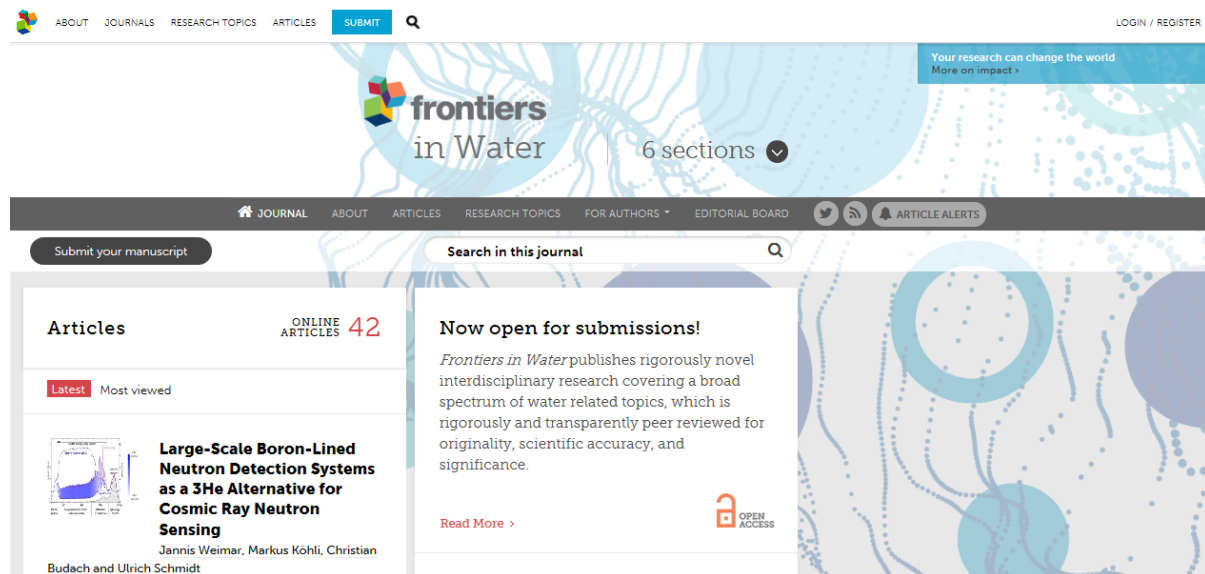
AGENDA:

- 13:30 – 14:30 *Good Practice and Benchmark Analysis of MAR*
- 14:30 - 15:00 *Virtual Coffee Break*
- 15:00 - 16:00 *Transnational Decision Support Toolbox for designating potential MAR locations in Central Europe*

SI in Frontiers in Water – through the MAR network.

The special publication about [Frontiers in Water – Water & Human Systems](#), research Topic on [Hydrological Extremes and Society](#) keeps going. *Frontiers in Water* publishes rigorously novel interdisciplinary research covering a broad spectrum of water related topics, which is rigorously and transparently peer reviewed for originality, scientific accuracy, and significance.

Submission Deadlines: 01 September 2020: Abstract. 31 January 2021: Manuscript.



Online Conference “Addressing Groundwater Resilience under Climate Change” 29-30 October 2020

IWRA international conference advances well. In these days those accepted abstracts are being communicated to authors. More info and free registration is open at: www.iwraonlineconference.org

This international conference is organized by IWRA in partnership with IAH and UNESCO IHP.



A new special edition of journal Water on MAR keeps advancing.

Special Issue "Managed Aquifer Recharge—Enhancing the Use of Alternative Water Sources for Subsurface Storage and Soil Aquifer Treatment". Special Issue Editors: Dr. Daniel Kurtzman (Volcani, Israel) and Prof. Dr. Christoph Schueth (TUDA, Germany). Please, submit ASAP.

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



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

The selected drop has been the paper "Artificial recharge of groundwater: hydrogeology and engineering" Herman Bouwer, 2002.

https://leg.mt.gov/content/committees/interim/2005_2006/environmental_quality_council/meetings/minutes/eqc09112006_ex18.pdf

Artificial recharge of groundwater: hydrogeology and engineering

Herman Bouwer

Abstract Artificial recharge of groundwater is achieved by putting surface water in basins, furrows, ditches, or other facilities where it infiltrates into the soil and moves downward to recharge aquifers. Artificial recharge is increasingly used for short- or long-term underground storage, where it has several advantages over surface storage, and in water reuse. Artificial recharge requires permeable surface soils. Where these are not available, trenches or shafts in the unsaturated zone can be used, or water can be directly injected into aquifers through wells. To design a system for artificial recharge of

Résumé La recharge artificielle des nappes est réalisée à partir d'eau de surface dans des bassins, des tranchées, des fossés et d'autres dispositifs où l'eau s'infiltré dans le sol et s'écoule vers le bas pour recharger les aquifères. La recharge artificielle est utilisée de plus en plus pour stocker l'eau souterraine à court et à long terme, là où cela présente des avantages sur le stockage d'eaux de surface, et pour le recyclage des eaux usées. La recharge artificielle nécessite des sols perméables en surface. Lorsque ce n'est pas le cas, on peut utiliser des tranchées ou des puits dans la zone non saturée, ou bien on peut in-

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

Thank you very much for your kind attention

With our best wishes

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:

