

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

Attached some MAR-related news for 2021 September.

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3rd interactive training of cross sectoral stakeholder group of the DEEPWATER-CE project

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Groundwater will have a first-row role in 2022.

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

IAH Commission on Managing Aquifer Recharge. Twitter account...

Previous IAH-MAR Newsletters

11st International Symposium on Managed Aquifer Recharge, ISMAR 11. Draft program already released!!

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 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>

*Previous ISMAR 10 conference's site: www.ismar10.net

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.

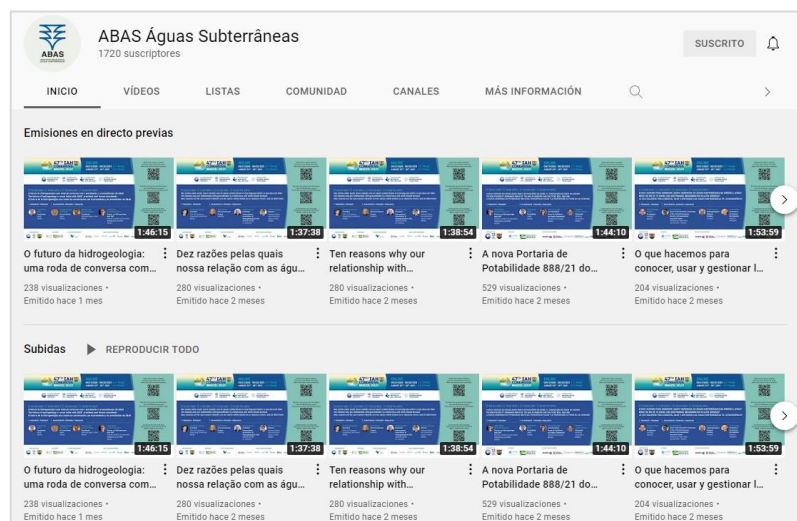


CONFERENCES WITH MAR SESSIONS:

47th IAH Congress-Brazil 2021. MAR session with 15 oral presentations. Results

A good collection of videos available for the whole community have been shared by the organizers. Some of them are on MAR:

https://www.youtube.com/channel/UCsgjRJ5lLJD2VRh_IY8AHg?view_as=subscribe



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

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



WhatsApp Group

Aquifer recharge management



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

Session 8 on **Managed Aquifer Recharge** was the second-biggest session at the congress by the number of submissions (after groundwater contamination), reflecting the increasing interest in MAR and the important role of MAR in (ground)water management. The session was divided in three days (Monday, Tuesday, and Thursday), each day consisting of two blocks of about five presentations each.



In total 28 oral presentations were given on topics varying from water quality considerations at SAT/MAR sites, approaches for assessing the risks associated with MAR, multiple modelling studies at different scales, operation and maintenance of MAR schemes (especially ASR in coastal aquifers and SAT basins), general feasibility studies (including GIS-based MAR suitability mapping), strategies for stakeholders' engagement, the role of MAR for sustainable water governance, etc. Additionally, several posters were presented on MAR-related topics.

48th IAH Congress
BRUSSELS BELGIUM 2021
Inspiring Groundwater

A keynote lecture by Prof. Dr. Pieter Stuyfzand about water quality problems and solutions with aquifer storage and recovery in different parts of the world opened the second conference day.

Conference program's access:

-Oral Presentations: https://iah2021belgium.org/wp-content/uploads/2021/09/20210904_Scientific-program-oral-presentations-version-print-pdf.pdf

-Poster Presentations: https://iah2021belgium.org/wp-content/uploads/2021/08/20210830_Scientific-program-poster-presentations.pdf






The organisers of the Congress were assisted by the 'Smurfs', who made the sessions very enjoyable.

IAH MAR Commission Plenary. September 9th Brussels

An official plenary meeting of the IAH-MAR Commission was hosted by the co-chair Dr. Catalin Stefan on Thursday, September 9th, at the IAH Congress in Brussels. The meeting was attended by 18 participants from the Netherlands, Germany, France, Greece, Cyprus, Malta, etc. who shared recent information about the implementation of new MAR projects and related activities. Additionally, two working group leaders, Niels Hartog (urban MAR) and Manuel Sapiano (MAR regulations) provided a brief update on the activities conducted. Further short reports included MAR economics, MAR for sustainability, global MAR inventory, and MAR suitability mapping. Prof. Stuyfzand introduced two new books that will be officially released in 2022 and 2023.

More detailed information will be posted shortly on our site:
<https://recharge.iah.org/recent-iah-mar-plenaries>

IAH Commission on
Managing Aquifer Recharge



International Association of Hydrogeologists

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Supporting Organisations

Tribute to Ian Gale

Plenaries are people who groups to un plenary mee the commiss

IAH Congresses, ISMARs and other regional groundwater symposia of all commission is doing and to suggest activities and form new working international level to advance the Commissions objectives. Commission attendees are always welcome. The notes give a good snapshot of all

26 September Malaga, Spain

22 May 2019

10 Sept 2018 at IAH 45th Congress, Daejeon, Korea (1.2 Mb) or (powerpoints 3.4Mb)

12 Dec 2017 at IGC New Delhi India

25 Sept 2017 at IAH 44th Congress, Dubrovnik, Croatia

27 Sept 2016 at IAH 43rd Congress, Montpellier, France

21 June 2016 at ISMAR9 Plenary, Mexico City, Mexico

Upcoming plenaries

- 48th IAH Congress in Belgium, 6-10 September 2021
- ISMAR11 in California, USA, April 2022

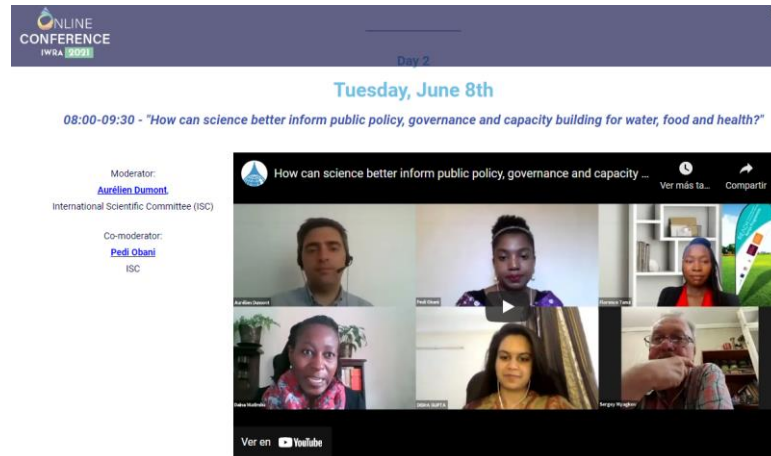
IWRA online conference 2021. Some more recordings available on the Internet

Some of the conference's results from the 2021 IWRA's conference have been included to the already available ones at:

<https://iwraonlineconference.org/recordings-2021/>

There were some oral presentations of MAR... Posters are already available at:

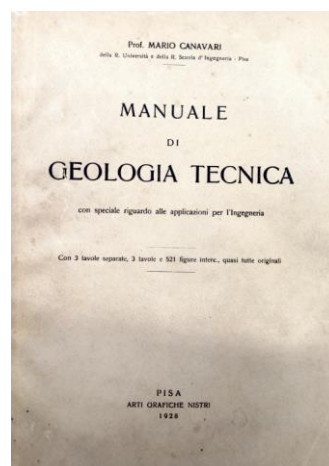
<https://iwraonlineconference.org/posters-2021/>



“NEW” BOOKS ON MAR

Managed Aquifer Recharge in an Italian 1928's book chapter (in Italian)

Here is a piece of history of MAR – chapter from 1928 (in Italian). Surely the first book chapter on recharge of aquifers in Italy...



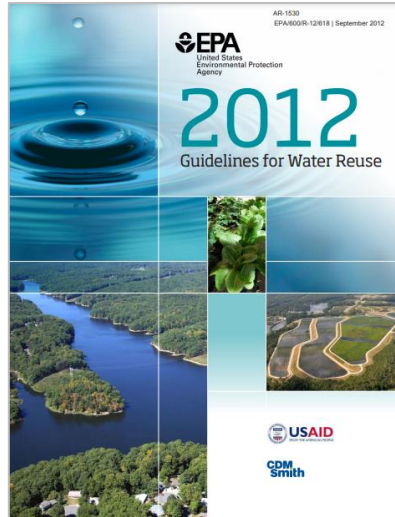
Provisional link to download it:

<https://dinamar.traqsa.es/file.axd?file=/PDFS/scansione%203.pdf>

Thank you Prof. Dr. Rudy Rossetto for reporting.

Reminders on the USEPA guidelines on water reuse (2012)

It is time for new guidelines, specially in Europe, and this publication must be taken into account: USEPA guidelines on water reuse (2012).



Download: <https://www.epa.gov/sites/default/files/2019-08/documents/2012-guidelines-water-reuse.pdf>

Future monograph on Artificial Recharge & Rain Water Harvesting (AR & RWH), NAM ST) Centre, India

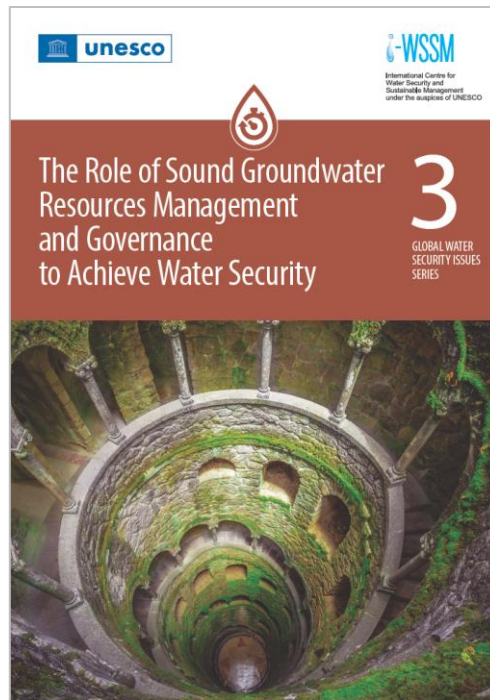
Science and Technology (NAM ST) Centre, headquartered at New Delhi, India is proposing to prepare a Monograph on Artificial Recharge & Rain Water Harvesting (AR & RWH), focusing on the developing countries of the world.

You will appreciate that, often discussions are made and publications appear on various endeavors on AR and RWH in the developed countries but there is a dearth of reporting of successful projects taken up by government or industries or communities in the developing countries of the world. For more info, please contact Dr. Dipankar Saha through dsaha002@yahoo.com

Thank you Dr. Dipankar Saha for reporting.

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

The new 2020 GWSI and i-WSSM edition is in the final stage and about to be released in a few days. This book includes MAR-related chapters. Please, stay tuned...



Previous GWSI-i-WSSM books:

2018: <https://unesco-iwssm.org/board/select?bbsNo=000000068&nttSn=20>

2019: <https://unesco-iwssm.org/board/select?bbsNo=000000064&nttSn=35>

New video on hydrogeology. Groundwater video - IAH GQC & ECHN

Short 4 minute 15 second video on groundwater and groundwater quality developed by the International Association of Hydrogeologists' (IAH) Groundwater Quality Commission (GQC) and the Early Career Hydrogeologists Network (ECHN).



This short film is an introduction to groundwater and is geared toward the general public, beginning students, and decision makers.

Video access: https://drive.google.com/file/d/1g5ehPmdqnOPxycyF_zvVpov3-AHxVknK7/view

Thank you Prof. Dr. David Kreamer for reporting.

WEBINARS

Webinar “Transboundary Aquifers”, Water Research Centre, Sultan Qaboos University, Oman. September 7th, 2021

A transboundary unconfined aquifer with natural accretion and a smartly located MAR infiltration basin: HYDRUS versus analytical solutions and optimization of aquifer’s stock and fluxes...

A transboundary unconfined aquifer with natural accretion and a smartly located MAR infiltration basin: HYDRUS versus analytical solutions and optimization of aquifer’s stock and fluxes

Webinar “Transboundary Aquifers”, Water Research Centre, Sultan Qaboos University, Oman

September 7, 2021, 10:00-12:00
<https://us02web.zoom.us/j/84890527262?pwd=VDNCSXZPNWhCaiNlejJkKzA5WTU1dz09>
 the meeting ID and password:


Meeting ID: 848 9052 7262
 Password: 20210907

Anvar Kacimov^{1*}, and Jirka Šimunek²

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²Department of Environmental Sciences, University of California Riverside,
 CA, USA
 Email: jirka@ucr.edu

Acknowledgments: SQU, Oman, grant DR/RG17

Water Research Center


يدعوكم مركز أبحاث المياه بجامعة السلطان قابوس لاختبار الندوة العلمية تحت عنوان:
 “المياه الجوفية العابرة للحدود”
 إنطلاقاً على منصة زووم

The Water Research Center of Sultan Qaboos University inviting you all to attend the webinar titled:
 “Transboundary Aquifers”
 online via Zoom

٢٩ أيلول ٢٠٢١
 Tuesday, 7 September 2021

١٠:٠٠ صباحاً - ١٢:٠٠ مساءً
 10:00 AM - 12:00 PM

<https://us02web.zoom.us/j/84890527262?pwd=VDNCSXZPNWhCaiNlejJkKzA5WTU1dz09>



More info: <https://www.squ.edu.om/agriculture/Academic-Department/Soils-Water-and-Agricultural-Engineering>

Thank you Professor Kacimov for reporting.

3rd interactive training of cross sectoral stakeholder group of the DEEPWATER-CE project

DEEPWATER-CE Interreg project team are conducting some training session on MAR solutions exposing the results of this project. The next one will be in Sept. 29th




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



Managed Aquifer Recharge Webinar 29.09.2021

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
15:30	Suitability mapping of MAR in DEEPWATER-CE project area
16:00	Risk assessment, legislation and policies on MAR
16:30	Cost-benefit analysis on MAR

Location:
 ZOOM Conference Room
<https://tum-conf.zoom.us/j/61193019511>
 Meeting ID: 611 9301 9511
 Password: DECE
 Contact:
 Anne Brüg (anne.brueg@tum.de)
 Dr. Arno Rein (arno.rein@tum.de)

Zoom-Meeting Link: <https://tum-conf.zoom.us/j/61193019511> Meeting-ID: 611 9301
9511 Code: DECE

Thank you Maria, Olha, Anne and Arno for reporting.

IAH Europe and IAH-D Webinars

IAH Europe is happy to announce the next webinar for October 1st, 12 a.m. as usual. As you can read in the attached announcement, the speaker will be Manuel Abrunhosa, chair of the Portuguese Chapter, with a topic related to Hydrogeoethics.

As usual, we adopt the ZOOM platform and participants need to register in advance for receiving the link to the webinar. The zoom room will be opened some minutes before, but the talk will start at noon (CEST, meaning GMT+2).

Registration link, ZOOM platform:

<https://uniroma1.zoom.us/meeting/register/tZMpcumgpjsoGdfcYppcoMIOZ0jxksB62FNt> meeting ID: 874 5088 0233 passcode: 199100.



The IAH Western & Central European Chapters present:

Where groundwater meets

October 1st, h. 12.00 CET (GMT+2)
webinar promoted by IAH Portugal

speaker:
Manuel Abrunhosa
CITEUC - Centre for Earth and Space
Research of the University of Coimbra,
Portugal

“Hydrogeoethics: the newest Hydrogeology discipline”

Free attendance upon registration

Where groundwater meets: a webinar series #08

IAH AII logo and Zoom logo are also present.

Thank you Dr. Johannes Barth for reporting.

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

Groundwater will have a first-row role in 2022

This article exposes the future actions planned for 2022, with intense presence of groundwater specialists, such as IGRAC; foreseen actions for the World Water Week, ONU 2019's report and future IAH collective publication...

Las aguas subterráneas serán las protagonistas hídricas de 2022

Hacer visible lo invisible. Naciones Unidas ha anunciado que el Día Mundial del Agua de 2022 estará dedicado al agua subterránea, que representa el 97% de los recursos del líquido elemento disponibles en el mundo y cuyas reservas corren serio peligro por el cambio climático y la sobreexplotación

El Ágora
Madrid | 30 agosto, 2021
Tiempo de lectura: 7 minutos



Mujeres rajpatis extraen agua de un pozo en Rajasthan.

More info in the article (in Spanish):

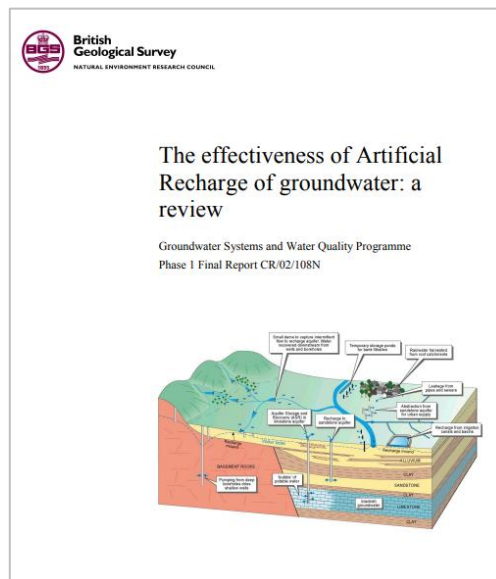
<https://www.elagoradiario.com/agua/aguas-subterranas-protagonistas-2022/>

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

The selected drop has been ...

The effectiveness of Artificial Recharge of groundwater: a review Groundwater Systems and Water Quality. I. Gale, I. Neumann, R. Calow and M. Moench.

Programme Phase 1 Final Report CR/02/108N, BGS, 2000.

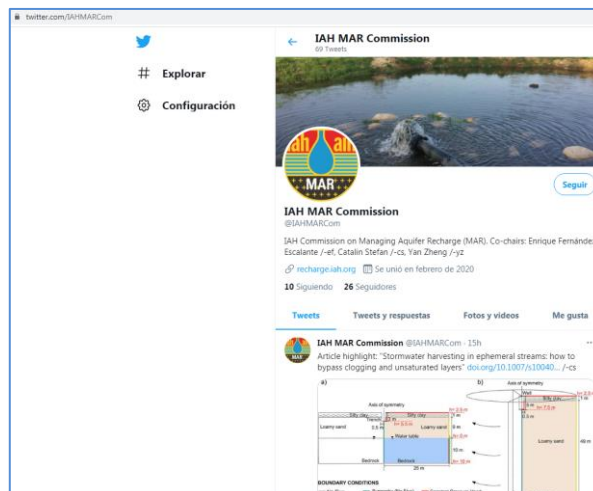


Download:

https://assets.publishing.service.gov.uk/media/57a08d4aed915d622c0018d7/R8169-AGRAR_Review.pdf

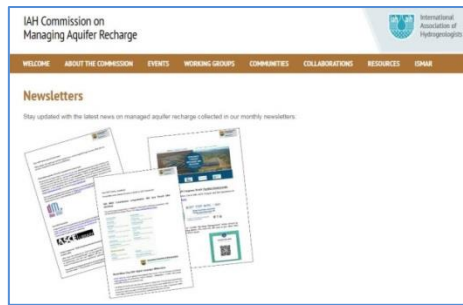
IAH Commission on Managing Aquifer Recharge. Twitter account

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.



@IAHMARCom

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

Sister sites:



@4dina_mar

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

