

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

Please find some pieces of news on MAR for 2021 August.

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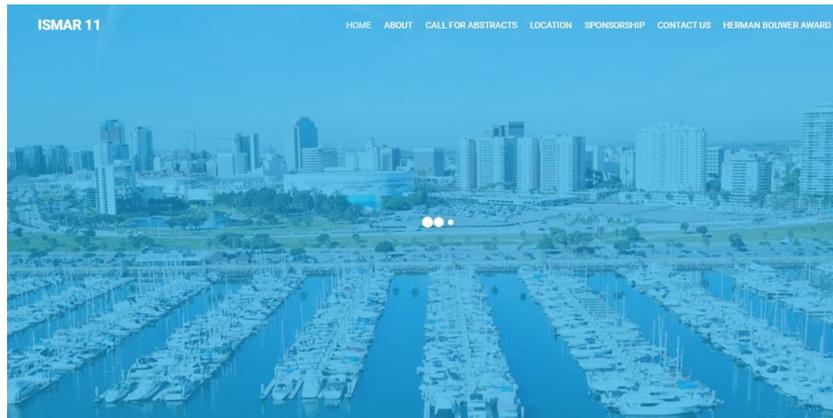
Old publications on MAR (another drop of nostalgia...). Artificial recharge: a technology for sustainable water resource development, 1998.

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

Previous IAH-MAR Newsletters

## 11<sup>st</sup> International Symposium on Managed Aquifer Recharge, ISMAR 11. More than 130 abstracts received by now!!

On behalf of GRA, ISMAR 11 organizers and IAH-MAR Commission, we cordially invite you to attend the 11<sup>th</sup> 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](http://www.grac.org)

\*Previous ISMAR 10 conference's site: [www.ismar10.net](http://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.



## Next IAH-MAR Commission plenary. IAH 48<sup>th</sup> Conference. Brussels. Thursday, Sept 9<sup>th</sup>, 2021. 17:30-19:00 h CET.

Our next official meeting will take place next Thursday, Sept 9<sup>th</sup>, 2021. 17:30-19:00 h CET, during the IAH 48<sup>th</sup> conference.

The program of the meeting will be released soon. Everybody is welcome!!

16.30-17.30	5. Groundwater and climate change Conveners: P. Goderniaux, M. Polemio	13. Groundwater and ecosystems Conveners: B. Rogiers, B. Ronchi	7. Karst/fractured rock Conveners: I. Doummar	3. Groundwater contamination Conveners: D. Ducci	
16.30	323: Mapping drought severity over Flanders for policy purposes Jasper Claus	109: Preliminary Assessment of Local Water Shared Challenge as First Step of Water Stewardship Journey: Study Case Pandaan Watershed, East Java, Indonesia Arif Fadillah	51: Modeling the diffusive behavior of helium and uranium in a porous/fractured chalk aquifer Richard Hoffmann	74: Solid data sets are essential to provide reliable solutions. A practical example of improved insights by a High Resolution Site Characterization approach Michael Borremans	
16.45	320: Hydrogeological modelling of the Tsanfleuron glaciated karst aquifer assess future water availability Carole Doucerain	131: Improved representation of groundwater-surface water interaction in SWAT+ for wetland and drought simulations Estifanos Addisu Yimer	482: Preliminary assessment of sediment transport and associated bacteriological contamination in a mountainous rural karst area (Sierra de Urbique, 5 Spain) Jaime Fernández-Ortega	107: Seasonal recharge vs regional flow effects on antibiotic occurrence in groundwater Josep Mas-Pla	
17.00	456: A methodological approach for the effective infiltration assessment in a coastal groundwater Maria Chiara Porru	70: Estimating the effect of wildfires on groundwater recharge rates through soil water balance models Monica Guzman	203: Earthquake-induced groundwater flow modification revealed by a hydro-structural study in the Sibillini Mts (Central Italy) Davide Fronzi	224: Discrimination of the natural geochemical background of anthropogenic geochemical inputs: conceptual analysis applied to the characterization of groundwater masses Philippe Lionel Ebengue Atega	
17.15	316: Using convolutional neural networks to evaluate long-term groundwater trends in Germany Stefan Broda	206: Improving groundwater dynamics in restored tidal marshes: an explorative field and modelling study Niels Van Putte	340: Aquifer characterization of the volcanic province and alluvio-lacustrine deposit in the Lake Tana basin (in the Upper Blue Nile), Ethiopia Fenta Nigate	346: Groundwater monitoring of outflows from the Faro-Olhão wastewater treatment plant in southern Portugal Katherine Malmgren	
17.30-19.00		IAH Strategic Planning Meeting I. Davey	Meeting of the Network of Fractured Rock Hydrogeology U. Troeger	Managing Aquifer Recharge (MAR) Commission E. Fernández Escalante, C. Stefan, Y. Zheng	IAH Commission on Managing Aquifer Recharge (MAR) Commission E. Fernández Escalante, C. Stefan, Y. Zheng, T. Frommen

### CONFERENCES WITH MAR SESSIONS:

**47<sup>th</sup> IAH Congress- Brazil/Brasil 2021.** MAR session with 15 oral presentation. More info: <https://iah2021brazil.org>.

Conference program:

<https://iah2021brazil.org/wp-content/uploads/2021/08/CongressProgramme.pdf>

The **Whatsapp group** on *Aquifer Recharge Management* keeps working with vivid debates:



WhatsApp Group

Aquifer recharge management



### 48<sup>th</sup> IAH Congress- Brussels

Session 8 on **Managed Aquifer Recharge** will be divided in three consecutive days. More info:

<https://iah2021belgium.org/programme/sessions-topics/>

Conference program's links:

-Oral Presentations

-Poster Presentations



**48<sup>th</sup> IAH Congress**  
BRUSSELS BELGIUM 2021

Inspiring Groundwater

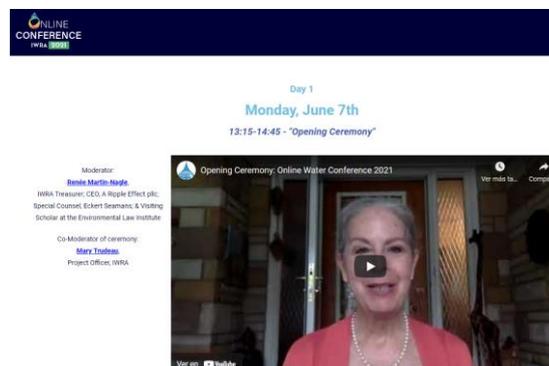
## Geofluids 2021. Results

A little summary will be included in the website soon.

## IWRA online conference 2021. Some recordings already on the Internet

Some of the conference's results from the 2021 IWRA's conference are already available in their website: <https://iwraonlineconference.org/recordings-2021/>

Organizers announce that the rest will be posted soon. There were some oral presentations of MAR... Posters are already available at: <https://iwraonlineconference.org/posters-2021/>



## NEW BOOK ON MAR:

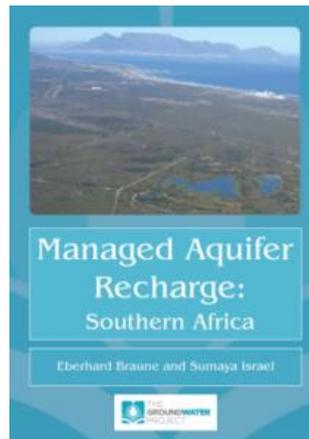
### Managed Aquifer Recharge: Southern Africa

ISBN: 978-1-77470-006-8. 96 pages.

Authors:

- Eberhard Braune. Associate Professor Department of Earth Science, University of Western Cape. Ground Water Division of the Geological Society Cape Town.
- Sumaya Israel. Senior Lecturer. Environmental and Water Science, Earth Science Department. University of Western Cape Ground Water Division of the Geological Society Cape Town, South Africa.

Download: <https://gw-project.org/books/managed-aquifer-recharge-southern-africa/>



## NEW VIDEO ON MAR:

### MAR in Tuscany, Italy (in Italian)

Rudy Rossetto, MARSoluT partner from SSSA, was talking on Rai1 channel about MAR in Tuscany, Italy. The infiltration test site from the MARSOLut's ESR Esteban Caligaris (SSSA) is shown and described.

You Tube link: [https://www.youtube.com/watch?v=FfZk\\_O\\_hVDo&t=4s](https://www.youtube.com/watch?v=FfZk_O_hVDo&t=4s)

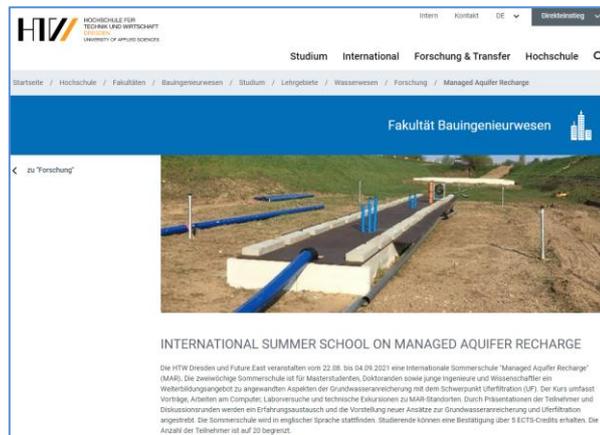


## COURSES ON MAR:

### HTW Dresden & Future East's MAR Summer School

The HTW Dresden and Future.East are organizing from 22.08. until 04.09.2021 an international summer school "Managed Aquifer Recharge" (MAR). The two-week summer school is for master's students, doctoral students as well as young engineers and scientists a further training offer on applied aspects of groundwater recharge with a focus on bank filtration (UF). The course includes lectures, computer work, laboratory tests and technical excursions to MAR sites. Through presentations by the participants and discussions, the aim is to exchange experiences and

introduce new approaches to groundwater recharge and bank filtration. The summer school will be held in English. Students can receive a confirmation of 5 ECTS credits. The number of participants is limited to 20.



More info: <https://www.htw-dresden.de/hochschule/fakultaeten/bauingenieurwesen/studium/lehrgebiete/wasserwesen/forschung/managed-aquifer-recharge>

## Improving skills in conservative and reactive transport modelling” 20 - 30 September 2021

Online course “Improving skills in conservative and reactive transport modelling” 20 - 30 September 2021.

EU Horizon 2020 ENeRAG project Excellency Network Building for Comprehensive Research and Assessment of Geofluids.



EU Horizon 2020 ENeRAG project  
Excellency Network Building for Comprehensive  
Research and Assessment of Geofluids

Online course "Improving skills in  
conservative and reactive transport modelling"  
20 - 30 September 2021

Organized by

GTK Geological Survey of Finland  
UNIVERSITÀ DEGLI STUDI DI MILANO

**Key topics:**

- Introduction to mathematical models for flow and transport in geological media.
- Stochastic transport modelling and risk assessment.
- Use of multi-domain upscaling modelling tools.
- Applied reactive transport modelling using multicomponent geochemical systems.

**Instructors**

**Samrit Luoma**  
Geologian tutkimuskeskus (GTK)  
Finland

**Muhammad Muniruzzaman**  
Geologian tutkimuskeskus (GTK)  
Finland

**Daniele Pedretti**  
Università degli Studi di Milano (UNIMI)  
Italy

**Invited lecturers:**

**Daniel Fernández García**  
Universitat Politècnica de Catalunya –  
BarcelonaTech (UPC), Spain

**Chuanhe Lu**  
University of Manchester, UK

**Hemling Prommer**  
Commonwealth Scientific and Industrial Research  
Organisation (CSIRO), Australia

For more information, please contact us ([daniele.pedretti@unimi.it](mailto:daniele.pedretti@unimi.it) or [muhammad.muniruzzaman@gtk.fi](mailto:muhammad.muniruzzaman@gtk.fi))

**Click here to register**  
Free of charge  
Registration closes on **10 September 2021**.  
A certificate of attendance will be issued after the completion of the school.

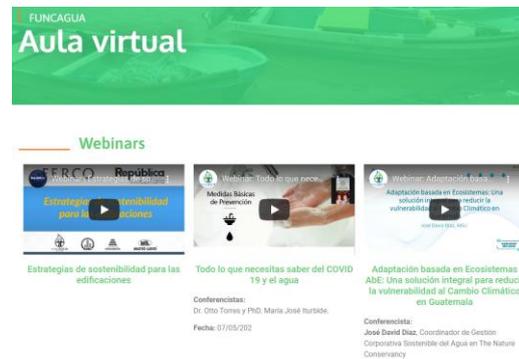
This course is organized as a winter school in the frame of the ENeRAG project, funded by the EU Horizon 2020 research and innovation programme.

[https://sdt.ariel.ctu.unimi.it/projects/sdt/contents/20-21\\_Flyer\\_ENERAG%20Improving%20skills%20Pedretti.pdf](https://sdt.ariel.ctu.unimi.it/projects/sdt/contents/20-21_Flyer_ENERAG%20Improving%20skills%20Pedretti.pdf)

## WEBINARS

### Funcagua Guatemala keeps organizing IWRM conferences, some of them on MAR (in Spanish)

New webinars have been announced by FUNCAGUA.



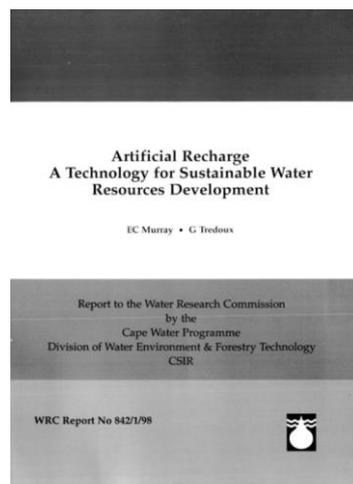
Have a look on future and recorded webinars: <https://funcagua.org.gt/aula-virtual/>

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

The selected drop has been ...

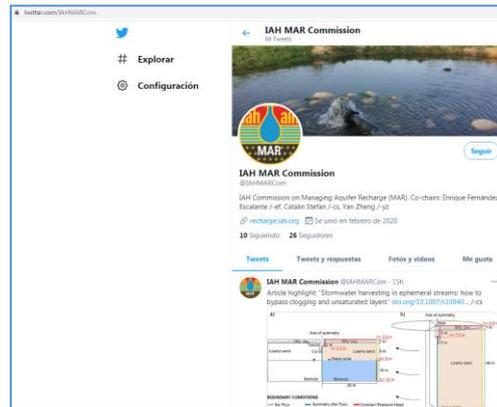
Murray, E.C. and G. Tredoux, 1998, Artificial recharge: a technology for sustainable water resource development. Water Research Commission Report, number 842/1/98

Download: <http://www.wrc.org.za/wp-content/uploads/mdocs/842-1-98.pdf>



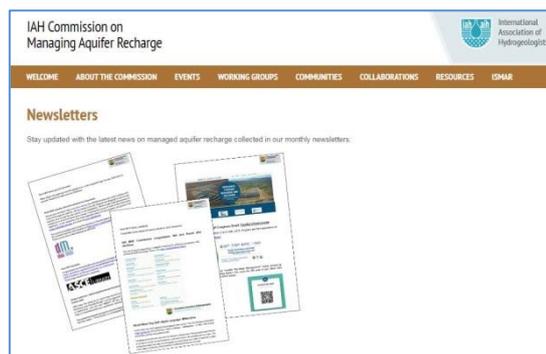
## IAH Commission on Managing Aquifer Recharge. Twitter account

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](mailto: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.

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.traqsa.es/>



@4dina\_mar

Get ready for the next main event on MAR:  
[www.ismar11.net](http://www.ismar11.net)

