

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

Attached some MAR-related news for 2021 December.

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### 11<sup>st</sup> International Symposium on Managed Aquifer Recharge, ISMAR 11. REGISTRATION ALREADY OPEN

On behalf of GRA, ISMAR 11 organizers and the 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 11 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-2022preliminary-agenda-flyer.pdf

#### SUPER-EARLY BIRD REGISTRATION UNTIL January 15<sup>th</sup>:

https://www.grac.org/events/272/

#### **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: <u>https://recharge.iah.org/contact-us</u>

The hosting place will be announced in ISMAR 11's plenary.



https://recharge.iah.org/ismar

### NEW MAR OR MAR-RELATED IMPORTANT PUBLICATIONS

#### Selection of managed aquifer recharge practices in Latin America



Authors: Research Group INOWAS, Department of Hydrosciences, Faculty of Environmental Sciences, Technische Universität Dresden (TUD), Germany. Centre for Environmental Studies and Biodiversity (CEAB), Universidad del Valle de Guatemala (UVG), Guatemala.



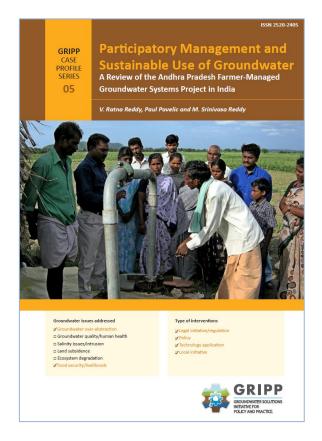


The overall goal of the DIGIRES project ("Digitally-enabled green infrastructure for sustainable water resources management in Latin America and the Caribbean") is the development and utilisation of ICT-based tools, coupled with citizen science observations, for the design and implementation of managed aquifer recharge (MAR) as nature-inspired solution for sustainable water resources management in Latin America and the Caribbean. Read more and download... 27 pg, 8,9 Mb:

https://www.researchgate.net/publication/357188200\_Selection\_of\_managed\_aquifer recharge\_practices\_in\_Latin\_America

#### New MAR-related GRIPP publication: Participatory Management and Sustainable Use of Groundwater A Review of the Andhra Pradesh Farmer-Managed Groundwater Systems Project in India

Authors: V. Ratna Reddy, Paul Pavelic and M. Srinivasa Reddy



This GRIPP Case Profile assesses whether the proactive involvement of rural communities in the management of groundwater positively contributes towards sustainable resource use. The assessment uses the long-term (2003-2013) Andhra Pradesh Farmer-Managed Groundwater Systems (APFAMGS) project in India as a case study. Implemented across seven districts, the assessment is based on a critical review and synthesis of existing literature and complementary field visits conducted five years after project closure... read more and download:

https://gripp.iwmi.org/wp-content/uploads/sites/2/2021/12/GRIPP-Case-Profile-Series-Issue-5.pdf



# Future book. Invitation to contribute. Artificial recharge to groundwater and rain water harvesting: issues and learning from the developing countries

#### ARTIFICIAL RECHARGE TO GROUNDWATER AND RAIN WATER HARVESTING: ISSUES AND LEARNING FROM THE DEVELOPING COUNTRIES

**Call for Contributions** 

#### ABOUT THE MONOGRAPH

G lobally, groundwater is one of the most critical natural resources. With potable water supply, industries and its immense economic and ecological importance, this resource plays a great role in meeting the Sustainable Development Goals (SDGs). Supporting billions of small and marginal famers around the world, it acts as a hedge against water insecurity, drought, food vagaries, and water borne diseases. The relatively higher resilience of groundwater against the onslaught of climate change is widely accepted. is the key issue. The interventions need to be integrated into broader water, land and ecosystem management policies and practices. The Proposed monograph presents success stories and challenges encountered, science and technology being adopted, and the socio-economic impact created by nainwater harvesting and artificial recharge in developing countries of the world. Government supported initiatives through policymaking, regulation and ongoing people. Storing water in soil and aquifer protects the resource from accelerated evaporation due to temperature rise under climate change. It is relatively cheap to implement, and obviates relocation of people from the flooding areas in case of major dams. Many practices linked to these two technique (artificial groundwater recharge and rain water harvesting) are on trial around the world. The knowledge on trial around the world. The knowledge accumulated and the innovations adopted pare reported to produce better outcomes. The inpact of these interventions on sustaining, and in mary cases, rejuvenating the groundwate resource as on wide ranging factors like biophysical, technical, agricultural, ecological, socio economic, institutional and legal sustes. Having strong ownership and engagement with local communities and stakeholders on trial around the world. The knowledge climate change is widely accepted. Rainwater Harvesting and Artificial Rainwater harvesting and Artificial Recharge is considered as the key supply-side intervention to sustain the resilience of water and food security of communities around the world. The rationale is to recharge and store more water underground for enhanced and sustained water access by plants, ecosystems, and rejuvenating the groundwater resource an encouraging. However, success depends on wide ranging factors like biophysical, technical, agricultural, ecological, socio-economic, institutional and legal issues. Having strong ownership and engagement with local communities and stakeholders ABOUT THE NAM S&T CENTRE Technology of the Non-Aligned and Other Developing Countries (NAM S&T Centre), New Delhi is an The Centre undertakes a variety of for scientist-to-scientist contact and interactions, familiarizing participants programmes, including or possi-International Workshops, Conference: the latest developments and techniques and Training Courses, and implementation of Collaborative S&T Projects. It also (NAM S&T Centre), New Delhi is an Inter governmental Organization with a Membership of 47 countries spread over Asia, Africa, Middle East and Latin America. The Centre was set up in 1389 in New Delhi, India in pursuance of the decisions of various NAM Sumits with the objective of promoting mutually beneficial cooperation among the NAM and other developing countries for collective self-reliance. in the subject areas, identification of the requirements of training and expert assistance, locating technologies for offers short-term Research Fellowships to Scientists and Technologists from assistance, locating technologies for transfer between the Members and other developing countries, and dissemination of STI information etc. In addition, the Centre encourages Academic - R&D-industry interactions in the developing countries through its NAM S&Tindustry Network. w exemusts and rechnologists from developing countries in association with the Centres of Excellence in various countries. The Centre also brings out books, monographs and other scientific publications in different subjects that are of interest to developing countries. The Centre's activities provide opportunity Centre for Science and Technology of the Non-Aligned and Other Developing Countries (NAM S&T Centre) Core-6A, 2nd Floor, India Habitat Centre, Ladhi Road, New Delhi 110003, India. Tel: +91-11-24645134, 24644974 Fax: +91-11-24644973 E-mail: namstcentre@gmail.com Website: http://www.namstct.org IN ASSOCIATION WITH 

Thank you Drs. Dipankar and Vilholth for reporting.

#### CONFERENCES

#### 8<sup>th</sup> African Water and Sanitation Week. 22 - 26 November 2021

The African Water and Sanitation Week for 2021 included a session titled Managed Aquifer Recharge and its role to climate change in Africa, and features speakers from Acacia Water, Department of Water and Sanitation, International Water Management Institute (IWMI), Minia University, Cranfield University and GEOSS South Africa (Pty) Ltd.

Registration link: https://lnkd.in/dmdkSHH3





Results will be announced shortly.

Thank you Kess Murray for reporting

## International Conference Smart Water Chihuahua, 2021 (results in Spanish)

Smart water counted on MAR presentations. The results of the conference are already available on line: https://drive.google.com/drive/folders/1qKk77IK5PEb6emfGj-7X6wyp\_GHXujvP



https://www.jcas.gob.mx https://bit.ly/ProgramaFinal\_Smart\_Water https://www.jcas.gob.mx/peh2040/

Thank you Dr. Carmen Navarro and Miguel A. González for reporting.



#### International Conference on Groundwater - key to UN SDGs. Opprtunity for a MAR session

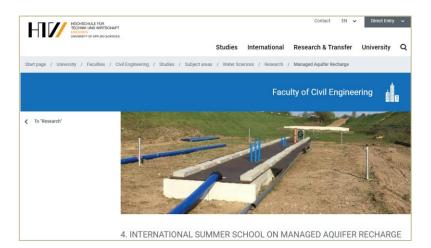
"If you are intersted to co-animate a given topic, already proposed by an animator, you can also contact the chair of the Conference program. He will put you in touch with the animator(s): contact@cfh-aih.fr"



The MAR Commission are initiating actions to be there... DEADLINE FOR ABSTRACT SUBMISSION: 21<sup>st</sup> January 2022

#### **COURSES AND WEBINARS**

MARISS 4 International Summer School on Managed Aquifer Recharge. 29.08. - 09.09.2022, Dresden, Germany



The Division of Water Sciences at the Dresden University of Applied Sciences is organising the 4th International Summer School "Managed Aquifer Recharge" (MARISS) from 29.08 to 09.09.2022. Due to climate change, groundwater recharge, in addition to demand management, is an important measure to conserve, convey and safeguard groundwater systems and to protect and improve water quality. Managed aquifer recharge - MAR-, also called groundwater recharge, water banking



and artificial recharge, is the targeted recharge of water in aquifers for later recovery or environmental benefit. Read more... <u>http://www.htw-dresden.de/mariss</u>

#### 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**

#### Whatsapp group on Aquifer Recharge Management

Scan the QR code.



# Austrian Embassy presents Energy Globe Award to Aquafondo for MAR project in Peru

Aquafondo, the Water Fund for Lima and Callao, received the "National Energy Globe Award" —one of the world's most respected environmental awards— for its



sustainable water resources management project in Chillon, Rimac, and Lurin river basins, under the motto "Sowing water. For more and better water for Lima."

https://andina.pe/agencia/noticia-austrian-embassy-presents-energy-globe-award-toaquafondo-for-project-in-peru-873273.aspx



### The quality of water produced by Turku Region Water is rated the best in the world by Unesco (a MAR-related area in Finland)

Turku Region Water, press release 1.12.2021:

The water quality produced by Turku Region Water in Finland has been evaluated among the best in the world. The company is one of the largest suppliers of drinking water using managed aquifer recharge. The contribution of the Unesco book is a tribute to the Finnish water know-how, as the shortage of groundwater is a global challenge to be solved...

More info: www.turunseudunvesi.fi/en https://unesdoc.unesco.org/ark:/48223/pf0000379962

#### In Memoriam. Professor Ramón Llamas

The professor Ramón Llamas, one of the fathers of hydrogeology in Spain passed away this Dec 11<sup>st</sup>. He was President of the International Association of Hydrogeologists from 1984 to 1989 and an outstanding contributor to the hydrogeology.





An obituario has been published in the IAH main website: <u>https://iah.org/news/in-memoriam-professor-ramon-llamas-1931-2021</u>

The IAH-MAR Commission, with plenty of students of the professor (he was Director of one co-chair's PhD Tribunal), wants to recognize his trajectory, legacy and kindness. Thank you Professor!!

### Old publications on MAR (another drop of nostalgia...). Ramón Llamas's interview

The selected drop is... a Professor Ramón Llamas's interview. It is in Spanish and it deserves the pain to use Google translator or equivalent...

https://www.redagricola.com/cl/ramon-llamas-catedratico-la-universidadcomplutense-madrid-la-escasez-agua-hoy-mito/

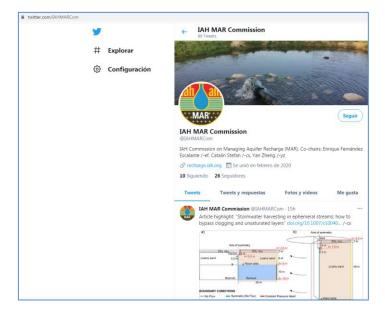
The interview contains two specific excerpts about MAR.





#### 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, Catalin Stefan and Yan Zheng.

2021 December 21th





@IAHMARCom

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

Sister sites:

http://china-mar.ujn.edu.cn/	()  ()  ()  ()  ()  ()  ()  ()  ()  ()	www
https://dinamar.tragsa.es/	dina - MAR	
		@
	@4dina_mar	