

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

Attached some MAR-related news for 2022 March.

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## **11<sup>st</sup> International Symposium on Managed Aquifer Recharge, ISMAR 11. REGISTRATION AND AGENDA**

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.

The program is already available: <https://www.grac.org/ismar-agenda-highlights/>



ISMAR 11 website: <https://www.ismar11.net/>

GRA event page: <https://www.grac.org/events/272/>

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

### **IAH-MAR Commission (re)election during ISMAR 11 plenary**

Since its commencement in 2001, the activities of the IAH Commission on Managing Aquifer Recharge are coordinated by co-chairs elected among the MAR community. The co-chairs are volunteers IAH members who work together with working group leaders and coordinators of communities of practices on increasing the awareness of MAR, facilitating international exchange of information, disseminating results of research, informing policy development and facilitating networking activities. It entails commitment, and eventually, hard work.

Traditionally, the co-chairs are openly elected during the Commission's Plenary Session organised at each International Symposium on Managed Aquifer Recharge (ISMAR) and receive a three-year mandate. The last election took place in May 2019 in Madrid, Spain, during ISMAR10:



(from left to right)  
**Catalin Stefan**  
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Germany  
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**Yan Zheng**  
Southern University of Science and  
Technology, Shenzhen, China  
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**Enrique Fernández Escalante**  
Tragsa Group, Madrid, Spain  
efernand6@tragsa.es

During the upcoming ISMAR11 in California, USA on 11-15 April 2022 (<https://ismar11.net>), the Commission will hold new elections. A new three-year mandate might be validated for the co-chairs, to be renewed at the ISMAR12 conference in 2025. The elections will take place on 2022 April 12<sup>nd</sup> during the IAH-MAR Plenary Session (see ISMAR11 Agenda) [here](#).

| Agenda Highlights   April 11-15, 2022   |   |   |  |  |
|---|---|---|--|--|
| April 11  | April 12  | April 13  | April 14   | April 15   |
| <p>Subsurface Injection and Recovery Recharge Workshop<br/><i>David Pyne<br/>Russell Martin</i></p> <p>Surface Spreading Recharge Workshop<br/><i>Mike Milczarek<br/>Adam Hutchinson</i></p> <p>Meeting Water Management Objectives with Managed Aquifer Recharge: The Role of MAR Governance and Policy<br/><i>Sharon B. Megdal</i></p> <p><a href="#">Workshop Details - Click Here</a></p> | <p>General Sessions</p> <p><b>Keynote 1</b><br/><i>Bruce Babbitt, Former AZ Governor, and Sec. of Interior</i></p> <p><b>Keynote 2</b><br/><i>David Kreamer, UNLV, President of IAH</i></p> <p><b>Panel 1: MAR in California</b><br/><i>Moderator: Felicia Marcus</i></p> <p><b>Panel 2 MAR in Action</b><br/><i>Moderator: Sharon B. Megdal</i></p> <p><b>Herman Bouwer Awards Luncheon</b></p> <p><b>IAH Plenary Session</b></p> <p><b>ISMARx Workshop</b><br/>A series of short presentations by graduates and young professionals to showcase their research.</p> | <p>4 Concurrent Tracks</p> <p>Session Topics Include:</p> <ul style="list-style-type: none"> <li>• ASR</li> <li>• MAR-Geophysics</li> <li>• MAR-Emerging Contaminants</li> <li>• FLOOD-MAR</li> <li>• International MAR</li> <li>• MAR-Integrated Water Management</li> <li>• MAR-Environment</li> <li>• MAR Engineering &amp; Design</li> <li>• MAR-Water Markets</li> </ul> <p>Reception</p> <p>Networking</p> <p>Gala - <a href="#">Sergio Vellatti   Big Band   Los Angeles</a></p> | <p>4 Concurrent Tracks</p> <p>Session Topics Include:</p> <ul style="list-style-type: none"> <li>• ASR</li> <li>• MAR-Geophysics</li> <li>• MAR-Emerging Contaminants</li> <li>• FLOOD-MAR</li> <li>• International MAR</li> <li>• MAR-Integrated Water Management</li> <li>• MAR-Environment</li> <li>• MAR Engineering &amp; Design</li> <li>• MAR-Water Markets</li> </ul> <p>Reception</p> <p>Poster Session</p> <p>Networking</p> | <p>Water Replenishment District of Southern California Albert Robles Learning Center</p> <p>Orange County Water District Surface Recharge System and Groundwater Replenishment System</p> <p><a href="#">Field Trips Details - Click Here</a></p> <p>Post-Conference - Geophysics Workshop<br/><i>Ahmad-Alli Behroozmand<br/>Max Halkjaer<br/>John Jansen<br/>Timothy K. Parker</i></p> <p><a href="#">Workshop Details - Click Here</a></p> |

For the new term 2022 – 2025, all three existing co-chairs stand for a new mandate, expressing their commitment to continue their joint efforts in promoting MAR internationally and to coordinate the activities of the Commission. A short summary from each can be found [here](#).

In case other IAH members are interested to submit their nominations as a co-chair, please, submit a short letter of interest to IAH Vice-president Marco Petitta [marco.petitta@uniroma1.it](mailto:marco.petitta@uniroma1.it), not later than 4<sup>rd</sup> April 2022. The letter should include a short description of past and current professional activities and a list of motivations and commitments as potential Commission co-chair. Please include also a photo and

contact details. Note that all Commission co-chairs must hold a valid IAH membership for the entire duration of their mandate.

## **IAH-MAR Commission Plenary at ISMAR11. Agenda. LIVE STREAMING!**

### **IAH Commission on Managing Aquifer Recharge**

#### **IAH-MAR Commission Plenary at ISMAR11**

**17:00-18:15 Tuesday, 2022 April 12<sup>th</sup>**

**ALL WELCOME! LIVE STREAMING!**

#### **Agenda:**

1. Welcome and Introductions 17:00-17:05
2. Objectives of the Commission – Enrique F. Escalante 17:05-17:10
3. UNESCO-ASCE-IAH opening 17:10-17:15
  1. UNESCO Travel Scholars
  2. Exemplary case studies publication with IAH and GRIPP. Future round of workshops
4. Progress reports and plans of Working Groups (*either in person or slides*) 17:15-17:35
  1. Global MAR Inventory – Catalin Stefan
  2. MAR for Sustainable Development – Yan Zheng
  3. Economics of MAR – Andrew Ross
  4. 60 years history of MAR – Peter Dillon and Pieter Stuyfzand
  5. Management of clogging– Russell Martin
  6. MAR to MARket – Enrique Fernández Escalante
  7. MAR Regulations and Guidelines – Manuel Sapiano
  8. MAR opportunity mapping - Jose Bonilla
  9. Urban MAR – Niels Hartog
  10. MAR in Conferences. Daniela Benedicto
  11. Italian Community of Practise slot. Rudy Rossetto
  12. Latin-MAR Community of Practise slot. Adriana Palma
  13. Australian and Chinese Communities of Practise?

Any future WG or CoP?
5. Invitation to ISMAR12, 2025. Finally the hosting place will be revealed!! 17:35-17:42
6. Election / Re-election of IAH-MAR Co-chairs – Conducted by IAH President, Dave Kreamer 17:42-17:50
7. IAH Certificates of Appreciation –17:50-18:00 Co-chairs + IAH President. TBC
8. Information sharing (on going or recently finished MAR-related projects). <1 min for each presenter. E.g.
  1. IGRAC MAR Portal
  2. Marsolut – PhD education in MAR
  3. GRIPP GW Solutions Initiative for Policy & Practice
  4. MAR-NET activities in China – / Germany / Denmark
  5. KMAP project in Kabul.
  6. DEEP WATER project
  7. Any other MAR-related on-going or just finished project (R&D, cooperation...) 18:00-18:05
9. Future post-ISMAR 11 Journal Water. Special issue. Call for action 18:05-18:07
10. New publications on MAR. Short mention/presentation by authors 18:07... – anyone

11. Suggestions for new activities – anyone
  12. Call for volunteers to participate in existing and new activities – anyone
  13. Information sharing on MAR (not covered elsewhere) – anyone
- Close of the Plenary 18:15

(Next Plenary TBD by co-chairs).

## NEW MAR OR MAR-RELATED PUBLICATIONS

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### **Managed Aquifer Recharge. A key to sustainability. Journal Water special issue**

**Authors not attending ISMAR 11 are invited to participate.**

Selected papers on MAR, specially presented at ISMAR 11 will be published in a Special Issue of the open-access journal WATER, continuing the tradition from previous symposia, including ISMAR 10.

Submission is open for all ISMAR 11 participants, as well as all members of the international MAR community.

The title of the special issue is: “Managed Aquifer Recharge: A key to Sustainability” and the included papers will be available in electronic format and as part of a printed book.

Some vouchers or discounts on article processing charges (APCs) are available.

The Special Issue is already open for contributions. For more details visit:  
[https://www.mdpi.com/journal/water/special\\_issues/Aquifer\\_Recharge](https://www.mdpi.com/journal/water/special_issues/Aquifer_Recharge).

Guest editors:

Enrique Fernandez Escalante (Spain)

Catalin Stefan (Germany)

Christopher J. Brown (USA)

June Mirecki (USA)


**Special Issue "Managed Aquifer Recharge: A key to Sustainability"**

- Print Special Issue Flyer
- Special Issue Editors
- Special Issue Information
- Keywords
- Published Papers

A special issue of *Water* (ISSN 2073-4441). This special issue belongs to the section "Water Resources Management, Policy and Governance".

Deadline for manuscript submissions: 15 September 2022

**Share This Special Issue**



**Special Issue Editors**

**Dr. Enrique Fernández Escalante** E-Mail Website SciProfiles  
Guest Editor  
Tragsa R&D, UPM Lecturer, IWB Consultant, Co-Chair IAH MAR Commission, Madrid, Spain  
Interests: IWRM, hydrogeology; technical solutions for water management, design and construction criteria  
Special Issues, Collections and Topics in MDPI journals

**Dr. Catalin Stefan** E-Mail Website SciProfiles  
Guest Editor  
Research Group INOVAS, Department of Hydrosiences, Technische Universität Dresden, 01069 Dresden, Germany  
Interests: soil aquifer treatment (SAT); managed aquifer recharge (MAR)

**Dr. Christopher J. Brown** E-Mail Website  
Guest Editor  
School of Engineering, University of North Florida, Jacksonville, FL, USA  
Interests: groundwater hydrology; surface water hydraulics, geotechnical engineering; dam safety

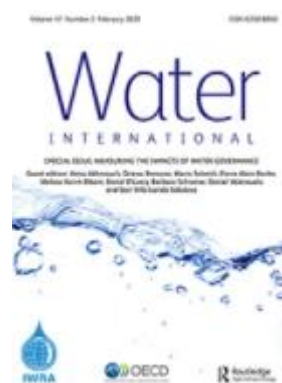
**Dr. June Mirecki** E-Mail Website  
Guest Editor  
U.S. Army Corps of Engineers-Jacksonville District, Jacksonville, FL, USA  
Interests: groundwater geochemistry; geochemical modeling; groundwater quality; water-rock interactions



## Water International, Volume 47, Issue 2 (2022). Some MAR-related articles

Water International is the official journal of the International Water Resources Association (IWRA), founded in 1972 to serve as an international gateway to the people, ideas and networks that are critical to the sustainable management of water resources around the world.... Read more:

<https://www.tandfonline.com/toc/rwin20/current>



## A MAR article in the top tanking Spanish press (El País)

*La buena gestión forestal no solo tiene beneficios económicos y medioambientales como la producción de madera o biomasa, también es clave en la recuperación de los acuíferos y el aprovisionamiento de agua... Read more (in Spanish):*



EXTRA BOSQUES Y AGUA >

## Sembrar árboles para recoger agua

La buena gestión forestal no solo tiene beneficios económicos y medioambientales como la producción de madera o biomasa, también es clave en la recuperación de los acuíferos y el aprovisionamiento de agua, y juega un papel fundamental en la prevención de potenciales riadas y contra la erosión del suelo



<https://elpais.com/clima-y-medio-ambiente/2022-03-22/sembrar-arboles-para-recoger-agua.html>

## MAR-related conferences and seminars

### 40 hour MAR course organized by the Peruvian Water National Authority (ANA) has finished successfully

The National Water Authority (ANA) Peru has conducted a capacitation course for 40 h directed at Peruvian civil servants and water management practitioners.

The activity has combined theory and practice with in person lessons in Ica, and field trips between Feb 28<sup>th</sup> and March 3<sup>rd</sup>, plus three on line 6 h final sessions to complement the program (March 12, 19 and 26<sup>th</sup>). More than 110 attendants.

**Autoridad Nacional del Agua**  
**ANA organiza curso "recarga gestionada de acuíferos"**  
 Foto de Prensa



25 de febrero de 2022 - 10:58 p. m.

- Capacitación es ejecutada por el Proyecto Gestión Integrada de Recursos Hídricos en Diez Cuencas (PROIG).
- Curso será dictado por el Dr. Enrique Fernández Escalante.

El Ministerio de Desarrollo Agrario y Riego, a través de la Autoridad Nacional del Agua (ANA), organiza el Curso "Recarga Gestionada de Acuíferos", con el objetivo de mostrar una visión amplia sobre la técnica de la recarga artificial o gestionada, con un enfoque práctico, pero a su vez apoyado en un sólido sustento técnico y científico.

La capacitación, ejecutada por el Proyecto Gestión Integrada de Recursos Hídricos en Diez Cuencas (PROIG), contempla aspectos como la legislación aplicable, los procedimientos para implementación, costos económicos, medioambientales, sociales, etc., todos ellos apoyados en casos reales.

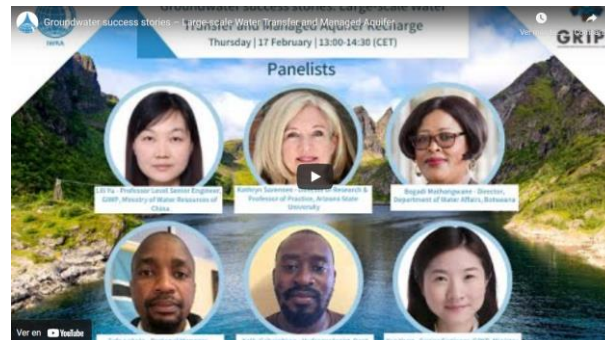
El curso será dictado por el experto internacional Enrique Fernández Escalante, doctor y especialista en hidrogeología con 31 años de actividad profesional en 16 países y se realizará en Ica, bajo la modalidad mixta, en un primer bloque de manera presencial y virtual el 28 de febrero, 1 y 3 de marzo, y un segundo



More info: <https://www.gob.pe/institucion/ana/noticias/586552-ana-organiza-curso-recarga-gestionada-de-acuiferos>

## IWRA Webinar N°50. Groundwater Success Stories: Large-scale Water Transfer and Managed Aquifer Recharge. February 2022

This webinar was a well-appreciated event that highlighted some of the many ways that we all value groundwater. As framed by Karen G. Villholth, groundwater and its management and governance are often overlooked. But, this key resource needs to be better understood so that it is available for present human and ecological uses but also for future generations. Read more: <https://www.iwra.org/groundwater-success-stories-webinar3/>



## Final Conference of the DEEPWATER-CE project. March 31<sup>th</sup>

“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”. Mar 31, 2022 09:30 AM Budapest.

Online, you can register using this link until 29<sup>th</sup> March:

<https://us06web.zoom.us/meeting/register/tZEpc-qjstHNSTKxyMauMFXFV4Vn9Y3fmS>



Thank you Ms. Anne Imig for reporting.

## NEW MAR OR MAR-RELATED ACTIVITIES. 2022 WWD SELECTION



## **Celebration of World Water Day 2022. Groundwater: making the invisible visible**

08:00 – 09:00 (GMT), Plenary Session. 22 March 2022, Dakar, Senegal. Read more: <https://www.worldwaterday.org/>



## **Webinar on Groundwater: Making the Invisible Visible**

March 30<sup>th</sup>. IWHR, IAHR, UNESCO World Water Assessment Program and GWP China. <https://wwd2022.iahr.org/en/web/index/>

## **Running MAR story today, sharing w media for World Water Day - on UNESCO book on MAR and MAR in Australia**

The ECOS blog on the UNESCO MAR case studies will be published for World Water Day this year. Read more...

[https://ecos.csiro.au/?p=7553&preview=1&\\_ppp=21c26c3a48](https://ecos.csiro.au/?p=7553&preview=1&_ppp=21c26c3a48)

## **Bi-annual groundwater conference online between 23-25 March 2022. Sesión Artificial and natural groundwater recharge**

The German Expert Group of Hydrogeology in the German Geological Society (in German: Fachsektion Hydrogeologie in der Deutschen Geologischen Gesellschaft - FH-DGGV) organises its bi-annual groundwater conference online between 23-25 March 2022. At the conference, the German chapter of the IAH led by Prof. Johannes Barth from the GeoCenter Northern Bavaria hosted a session on “Artificial and natural groundwater recharge” with contributions, among others, from members of the IAH MAR Commission. Check the conference program:

[https://www.bayceer.uni-bayreuth.de/FH-DGGV-2022/de/prog/5001/2/22110/FH-DGGV-2022\\_\\_Programm.pdf](https://www.bayceer.uni-bayreuth.de/FH-DGGV-2022/de/prog/5001/2/22110/FH-DGGV-2022__Programm.pdf)

## **More actions**

## **Whatsapp group on Aquifer Recharge Management**

Since the previous QR code to join the group was changed, the appearance of trolls has been zero. This is the new link to join the group:

<https://chat.whatsapp.com/BxYZq7wERpc7nDeTRIYN63>

## Previous IAH-MAR Newsletters

Please, remember that you can access the previous newsletters in our website:  
<https://recharge.iah.org/newsletters>

That's all by now... please, keep reporting ([dinamar@tragsa.es](mailto:dinamar@tragsa.es)).

Thank you very much for your kind attention  
All the best...

Dr. Enrique Fernández Escalante of behalf of the IAH MAR Commission co-chairs,  
Catalin Stefan and Yan Zheng.

2022 March 29<sup>th</sup>



@IAHMARCom

<https://twitter.com/IAHMARCom>

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 and to share your info.

## Sister sites:

<http://china-mar.ujn.edu.cn/>



<https://dinamar.tragsa.es/>



@4dina\_mar