

Monday, May 20th 2019

Workshop nº 6

Theme: Sustainable MAR in developing countries

Title: Developing managed aquifer recharge network in Latin America

By Dr. Edmundo Claro (CSIRO, Chile); Mr Tatsuo Shubo (Fundação Oswaldo Cruz – Fiocruz, Brazil); Dr. Declan Page (CSIRO, Australia), Mr. Dennis Gonzalez (CSIRO, Australia).

Themes

- Status of MAR in Latin America
- Risk-based management
- Development through demonstration
- Creating a MAR community of practice in Latin America
- Selling the benefits of MAR and to whom

Objectives

Objectives of the workshop are to discuss:

- 1) Meet and identify people interested in MAR in Latin America.
- 2) Build a community of practice for MAR in Latin America (perhaps also nominate a representative for South America via the IAH-MAR network);
- 3) Identify potential case study MAR projects for the IAH-MAR Commission's MAR for Sustainable Development Working Group.

Description

This workshop is aimed at meeting others who work in MAR in Latin America. The workshop will discuss the pathways to successful development and implementation of MAR projects in regions where the techniques and concepts are relatively new.

Interactive discussions will explore perceptions of MAR as a viable option, from the perspectives of investor confidence, integration with health and environmental and water resource regulation, and public attitudes and safety concerns. Interest in building a local and regional MAR community of practice will also be discussed, highlighting the benefits of shared learning and experience in increasing confidence in developing MAR projects.

An interactive session will follow discussing framing MAR costs and benefits, showing the value of investing in research, and identifying key stakeholders and decision makers and funding bodies.

Outputs of the workshop will be: 1) a Latin America MAR network and a potential contact person/lead for this network in IAH-MAR. 2) Report on summary of key challenges and opportunities facing MAR in Latin America. 3) Potential date for a second workshop to be held in Chile in late 2019 and list of invitees. 4) A press release.

PROGRAM. The workshop program includes:

1. Video presentation: CSIRO MAR research (Claro with Spanish subtitles).
2. Presentation on status of MAR in Latin America using examples in Chile and Brazil followed by discussion and commentary on overcoming perceived barriers to implementation (Gonzalez/Claro/Shubo).
3. Presentation on risk-based water quality management – benefits and international examples (Page)
4. Interactive session on MAR project management tabulating current approaches in different regions (within and external to Latin America) (all).
5. Steps required for investor and regulatory confidence building through demonstration, steps to upscaling from pilot to full scale (panel discussion, all).
6. Interactive session on building community of practice for proponents of MAR to share knowledge in a region developing MAR (all + IAH-MAR representative if available).
7. Interactive session on identifying suitable case study sites in Latin America for documentation (all).
8. Collective summary and group photo with all attendees (all).

Proposers CV:

Max 100 words

Dr Edmundo Claro is the Research Program Director for Land and Water projects at CSIRO Chile based in Santiago. Dr Claro has a PhD from Cambridge in Land Economy and over 20 years experience working in the public, private and academic sectors.

Mr Tatsuo Shubo is part of the Technical Advisory Board of Infrastructure and Environment, Campus Administration Directory-FIOCRUZ, Rio de Janeiro, Brazil. He has worked at FIOCRUZ Brazil since 2003 and has research interests in alternative water sources and public health risk assessments.

Dr Declan Page is the Groundwater Contamination & Remediation Technologies Research Group Leader at CSIRO Land and Water. Declan's research interests are in risk-based water quality management in MAR, water treatment technologies, and catchment management.

Mr Dennis Gonzalez is a research technician with extensive experience in MAR research, water safety and security, and environmental impact assessment projects. Fields of expertise include surface and groundwater hydrology, water quality, and spatial information analysis.