



# 2nd Gas Policy and Water Management

The Australian Water School, an initiative of ICE WaRM (The International Centre of Excellence in Water Resources Management) will host a two-day course on Environmental Assessment for Extracting CSG and Shale Gas.

You will be exposed to the most critical issues facing the industry and gain understanding on likely directions in the next few years. The course will be chaired each day by an experienced mentor, supported by a team of specialist presenters. You may opt to attend either one or both days.

## Workshop Chairs



**Ben Kele**  
Director,  
Arris Water

*This course is designed and delivered by leading practitioners, regulators and scientists working on environmental issues in gas extraction.*



**George Gates**  
CSG & GW Consultant

## What will we learn?

- Understand water management policies being legislated for gas extraction
- Learn how water science underpins gas policy development
- Know how to discuss policy and water management issues with consultants
- Understand how gas regulations are being developed
- Recognise mission-critical water issues in gas extraction

## Who should attend?

### People working in:

- Environmental consultancies
- Water agencies
- Federal, state and local govt departments
- Research agencies
- Higher education
- Natural Resource Management boards

## Workshop Details:

**When:** Thursday 2nd & Friday 3rd March, 2017

**Where:** Novotel Canberra

**Cost:** \$770 per day, incl. GST

**Included:** Workshop Notes, Morning Tea, Lunch

**Register:** <http://bit.ly/2fBoX2O>

**Contact:** Trevor Pillar, +61 8 8236 5208,  
[tpillar@icewarm.com.au](mailto:tpillar@icewarm.com.au)

## What will be covered?

- Managing CSG water extraction impacts
- Improving your understanding and modelling of groundwater flow systems
- Changes to better align management of water extraction for CSG and mining projects
- Extraction techniques
- How Shale Gas differs from CSG
- Use of water in the fracking process
- Re-injection of treated CSG water into aquifers
- Examples of differences between Shale and CSG
- International Case Studies on Shale Gas Water Treatment
- Regulations and compliance



## Presenters include:



### Ben Kele, Arris Water

Ben is a Director of Arris Water and completing his PhD at Central Queensland University. He has developed, patented and successfully commercialised two treatment technologies. Through Arris Water Ben is involved in the design, construction, and operation of treatment facilities and reuse schemes.



### George Gates, CSG & GW Consultant

As Director of Water Management - NSW Office of Water, George was responsible for surface and groundwater management, and policy development through a period of significant water reform. He is on the NSW Gateway Panel, that assesses significant mining and CSG proposals.



### John Ross, AGL Energy

John was Manager Hydrogeology with the Upstream Gas Division of AGL Energy from 2010 to late 2014, and is now semi-retired. He has more than 40 years' experience, mainly associated with unconsolidated sediment and sedimentary basin hydrogeology.



### David Free, DNRM Qld

David is the Chief Hydrogeologist with DNRM and has some 40 years' experience undertaking groundwater investigations, assessment and management across most aquifer types in Queensland with a strong emphasis in the Great Artesian Basin (GAB).



### Sanjeev Pandey, OGIA

Sanjeev is a hydrogeologist with 17 years of experience in groundwater resource management. Sanjeev is the General Manager - Office of Groundwater Impact Assessment, Queensland Government (OGIA).



### Kevin Wormington, KRW Environmental

Kevin is the Principal Ecologist at KRW Environmental. Kevin has 19 years of experience as an ecologist in Australia, and has been an independent consultant since 2014. He has worked with compliance for Environmental Authorities for flora, fauna and freshwater ecological assessments within the mining, gas and infrastructure industries.



## Ways to Register:

### 1. Online

- <http://bit.ly/2fBoX2O>

### 2. Contact Trevor Pillar:

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## What's included

*Presentations by experienced water professionals*

- **Course notes** - hard copy and electronic
- **Tutorials, discussions**
- **Linking with other industry professionals**
- **Small group size to allow greater interaction**
- **Catering:** lunch, morning tea

## Testimonial...

"Thank you! This is one of the most useful training courses I've ever attended. Great breadth of material, great presenters and pitched at the right level."

*Environment Assessment and Compliance Officer,  
Department of the Environment and Energy*