

# WEBINAR TALK ON MANAGING HYDROGEOLOGICAL COMPLEXITIES: APPLYING GOOD ENGINEERING PRACTICE TO IMPROVE GROUNDWATER MANAGEMENT SOLUTIONS IN MALAYSIA



**SPEAKER :**  
**MR. MICHAEL CHENDORAIN**



**29 APRIL 2025,  
TUESDAY**



**4.00PM – 6:00PM**

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**Registration Fees**

**Student Members : Free**

**IEM Members : RM 15.00**

**IEM Non Members : RM 70.00**

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**BEM Approved CPD: 2  
Ref. No.: IEM25/HQ/103/T(w)**

## SYNOPSIS

This presentation will highlight various approaches to managing groundwater in both the built environment and during construction. The talk will focus on topics relevant to issues in Malaysia such as:

- Development of dewatering solutions to control groundwater during construction.
- The role of groundwater when assessing karstic geology risks.
- How climate change will impact groundwater engineering designs
- Developing a defensible technical basis to support regulatory concurrence on hydrogeological topics.

The talk will draw from case history examples derived from projects delivered in the UK, US, southeast Asia, and Australia.

## SPEAKER'S BIODATA

Mr. Michael is an Associate Principal based in Singapore with 28 years of experience. He leads Arup's global groundwater and geothermal engineering practice. Mr. Michael received an MS in Soil & Environmental Sciences from the University of California, Riverside and a BS in the same from Virginia Tech in 1994. Mr. Michael also worked as a research associate at UC Berkeley managing a Soil Physics Laboratory. Prior to moving to Singapore 3 years ago, he worked for 10 years in London & Europe following 15 years in California.

Mr. Michael has published on a wide range of topics in Journals such as Science Advances, Journal of Seismology, Environmental Science and Technology, and the Journal of Environmental Quality (among others). Professionally, Mr. Michael has led technical design, regulatory engagement, and expert services on a wide range of projects including:

- High Speed 2 (HS2) tunnels, shafts (and related infrastructure through London
- Participation in an expert task force for New York City to develop a plan to address climate change impacts on groundwater across the City.
- Great Lakes Tunneling Project (GLTP), a tunneling project which will run beneath the Great Lakes of the United States.
- Development of a deep geothermal heat plant in Belgium.
- Groundwater flow and transport modelling for a multi-contaminant site in Manchester.