

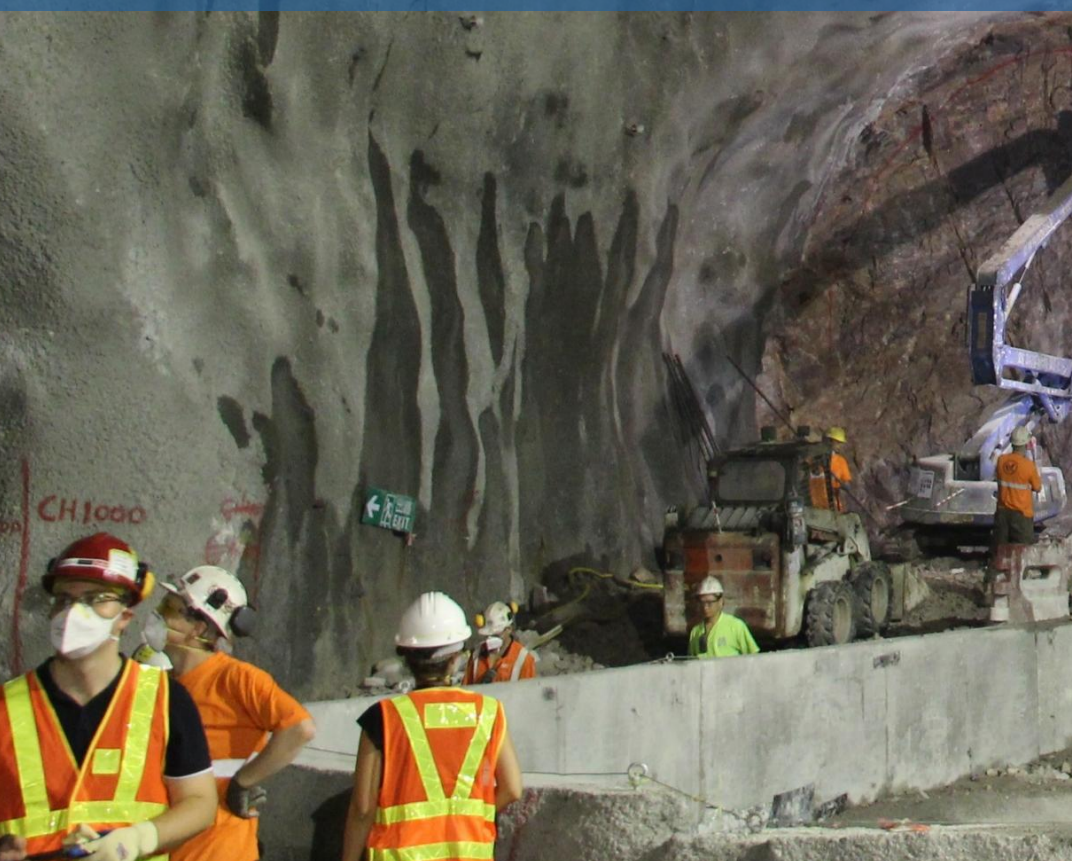
ATS Rock Fracture Grouting One Day Course

MELBOURNE – SYDNEY – BRISBANE

26 May

28 May

29 May



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The problem solver

AN INVITATION

Welcome to the cutting-edge ATS Rock Fracture Grouting Course

Australia is currently experiencing a boom in pumped hydro projects, and infrastructure spend for driven tunnelling in transportation continues. However, a key issue in rock engineering for these projects is water control.

While Australia once had world-leading expertise in this topic, there have been major developments in the theory and practice of fracture grouting since then.

This one-day course intends to bring professionals in Australia right back up to speed, particularly considering the unprecedented need for this skill.

Learn the “black art” of grout injection

Rock fractures occur in all rock masses and are the usual flow path for water. Unlike many engineering materials, the ability for fractures to carry water, or to be treated by grout injection, is distributed in an unusual way. In such cases, the most transmissive features are rare and difficult to characterise by normal statistics. This makes water flow in rock masses difficult to predict or treat.

Water control by grout injection is often seen as a “black art,” however, recent work in the field has led to a better understanding of the problem. **This course is intended to give participants understanding and tools to make the complex issues simpler.**

Join the who’s who of rock fracture grouting in Australia and internationally

The ATS, in conjunction with AGS and ANCOLD, and supported by our fantastic sponsors and world-class presenters, is thrilled to present this one-day course on rock fracture grouting

At the heart of the course is technical content delivered by our keynote speaker and one of the world’s leading experts in grouting, Mohamed El Tani.

Mohamed is involved in grouting research through the International Society of Rock Mechanics (ISRM) as President of the ISRM Commission for Rock Grouting. He is also the President of the Lebanon Underground Space Organisation (LAUS).

Reasons to attend

This course is vital for all professionals working in major tunnel and dam construction who need to understand grouting operations. This will include client organisations planning hydro and pumped hydro projects, consultants providing design services, and contractors pricing and constructing.

Owners and project sponsors

- ♦ You will benefit from understanding the requirements for investigation, design and construction for your projects, and the possibilities and limitations of the technique.

Suppliers and contractors

- ♦ You will benefit by hearing the latest developments in the field.

Designers

- ♦ You will be better able to produce designs, drawings and specifications for water control.

Young engineers

- ♦ You will become aware of the fundamentals of this intriguing field.



LOCAL EVENTS, EXCELLENT PROGRAM

VENUES

THE GROUTING COURSE IS TAKING A ROADSHOW!

MELBOURNE - 26 May 2025

Engineers Australia Melbourne,
Level 31
600 Bourke Street
Melbourne, VIC, 3000

SYDNEY - 28 May 2025

Engineers Australia Sydney
Mezzanine Level
44 Market Street, NSW, 2000

BRISBANE - 29 May 2025

Engineers Australia Brisbane,
Level 9,
340 Adelaide St
Brisbane, QLD, 4000



PROGRAM

Time	Topic	Author
8:30-8:45	Registration and introduction	
8:45-9:30	Introduction to grout for ground improvement	Iain Robertson
9:30-10:15	Historical perspectives, development and practical issues for grouting	Bruce Grant
10:15-10:30	Morning tea	
10:30-12:30	Grouting stop criteria part 1	Mohamed El Tani
12:30-1:15	Lunch	
1:15-2:30	Grouting for tunnels	Harry Asche
2:30-3:15	Grouting for dams	Sean Ladiges
3:15-3:30	Afternoon tea	
3:30-5:15	Grouting stop criteria part 2	Mohamed El Tani
5:15-5:30	General panel discussion	All

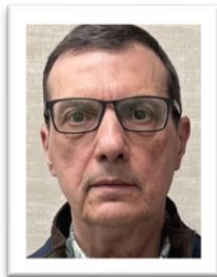
EXPERT SPEAKERS

Mohamed El Tani

**Managing Director
Rockgro**

Mohamed El Tani is a scientist who has brought mathematical rigour to a topic that was previously seen as a “black art.”

Mohamed is the chair of the ISRM Commission on rock grouting, whose scope is to bridge the gap between science and practice. He has been involved with grouting for water control in many significant tunnel and dam projects.



Sean Ladiges

**Technical Director
GHD**

Sean Ladiges is a specialist in Australian dam design and construction at GHD and will explain the fundamentals of grouting to control water leakage through the foundations of dams, including case histories of major dams in Australia.



Bruce Grant

**Managing Director
Multigrout Australia**

Bruce Grant is a leading Australian rock grouting practitioner with significant experience in grouting for dam and tunnel

construction. Bruce will set the scene, describing the overall principles of rock fracture grouting and explaining the current state of the art in designing and executing the process.



Harry Asche

**Design Director
Aurecon**

Harry Asche is a well-known tunnel designer with Aurecon. He will explain how pre-excavation grouting is set up for water control in driven tunnels, including investigation, design and construction elements.



Iain Robertson

**Managing Director
RIX Ground Engineering**

Iain Robertson runs RIX Ground Engineering and has broad knowledge of techniques of ground improvement. Iain will set our topic of rock fracture grouting within the broader context of the use of grout in ground improvement methods.



DON'T DELAY

Spots will fill quickly

Register now:

PRICES AND LINK HERE

