



Professional Development Attendance Certificate

This certifies that:

has attended the following event organised by the NSW Underground Geotechnical Society and is entitled to 3 hours towards CPD.

Date:	Friday 20 th March 2026
Event:	NUGS Workshop
Location:	BlueScope Visitors Centre / Webinar
Duration:	3 hours

Technical Presentations:

Duration	Presenter	Presentation Title:
30 mins	Zhongbei Li, University of Wollongong	Role of Micro-fracturing in Coal and Coal Measure Rocks in Coal and Gas Outburst
40 mins	Yvette Heritage, SCT	Mining Induced Hydraulic Conductivity above Longwall Panels – a New Approach of Estimating the Relative Hydraulic Conductivity
40 mins	Scott Burchmore, Geotechnicoal	Cook Colliery – Strata Deterioration in 205 Mains
30 mins	Itmam Abedin, University of Wollongong	Influence of Water Saturation and Gas Sorption on Coal Energy Accumulation and Acoustic Emission Behaviour
1 hour	Christian Mans, GM ³	Appin Mine's Progress with Sandstone Outbursts

NSW Underground Geotechnical Society – Executive Committee

NUGS is a non-profit organisation with the aim of providing a forum for:

1. *Dissemination of knowledge in relation to rock characterisation, support & mine design, strata management and reconciliation.*
2. *Sharing and discussing specific industry problems.*
3. *Identifying, promoting and reviewing research and development.*
4. *Providing a link between students, educators, geotechnical practitioners and strata support suppliers.*

Contact: <https://nugs.org.au/>