



AGS (HK) Technical Seminar
supported by The Institute of Materials, Minerals and Mining

Advanced Geotechnical Grouting Solutions for Ground Stabilisation
by
Greg Sieders
(Civil Technical Advisor ARDEX Scoretech)

Date: Thursday, 25 June 2026

Time: 18:30 – 19:30 (Hong Kong Time)

Venue: The webinar will be conducted through Zoom.

Successful applicants will be informed by emails with a Zoom's link to the webinar. Participants should arrange for their own device with a stable network environment to join the webinar.

Enquiry: agshk.org@gmail.com

Fee: Free of charge

Registration: <https://www.ags-hk.org/event-details/advanced-geotechnical-grouting-solutions-for-ground-stabilisation>

Please register by 18:30 on 25 June 2026. Successful applicants will receive webinar details after registration. CPD certificate will be sent to the attendees, who attended more than 80% of the webinar time, within 2 weeks after the webinar.

Book Prize: Professionals under 35 years of age are encouraged to submit a Book Prize Report (max. 500 words) on webinars and site visits arranged by AGS (HK).

Contributors to successful Book Prize Reports will be awarded a Book Prize that comprises of a book "Geology of Site Investigation Boreholes in Hong Kong" written by Chris Fletcher, and a coupon of HK\$500 for Eslite Spectrum (誠品生活) or equivalent. The successful Book Prize Report will also be published on the AGS (HK) website to showcase your accomplishment.

Prior to report submission, please refer to the "The AGS Book Prize Reports – Assessment Framework"* on the AGS (HK) website. You may submit your Book Prize Report to our assessors by uploading the report file through the AGS (HK) website at <https://www.ags-hk.org/book-prize>. Should you have any questions, please contact us at agshk@meinhardt.com.hk.

*Link to the AGS Book Prize Reports – Assessment Framework:
https://www.ags-hk.org/_files/ugd/521a4c_b94496034732484687441cf4ed4d0bf9.pdf



Synopsis:

Ground improvement through specialist grouting technologies plays a critical role in ensuring the stability and longevity of major infrastructure. This presentation introduces the engineered grouting solutions, with a focus on cementitious and chemical grout formulations applied across a range of geotechnical conditions encountered in tunnelling, rail, and civil infrastructure projects.

The grouting technologies addressed span permeation grouting, compaction grouting, and fissure grouting, each selected based on ground characterization, grout rheology, and the specific treatment objective — whether structural reinforcement, void filling, or groundwater control. Key material properties governing grout performance are discussed, including viscosity, gel time, particle size distribution (for penetrability into fine-grained soils and rock discontinuities), and volume stability post-injection.

A particular focus is given to two product classes: foamed cementitious grouts for low-overburden void filling applications, and polyurethane resin systems for rapid ground consolidation and water cut-off. The hydro-insensitive and expansive characteristics of polyurethane resins make them well-suited to dynamic groundwater environments, while their controllable reaction time allows staged injection in complex ground conditions.

Case studies from soil stabilization, infrastructure remediation, and groundwater control applications are presented to illustrate the selection criteria, injection methodology, and performance outcomes of these systems in practice.

About the Speaker:

Greg Sieders is the Technical Advisor for Civil Engineering Solutions at ARDEX. Previously, he was the Regional Business Manager – Asia and Americas at Blu Technologies, where he spent close to 13 years.

With more than 20 years of experience in large civil engineering and building projects, Greg has worked with major technology suppliers including BASF, EWS, and Bluey, gaining extensive product development and site application expertise. His knowledge spans cement- and resin-based systems, corrosion protection, and various types of ground support.

This combination of experience has enabled Greg to play an instrumental role in developing new cable rock bolt designs for tunnels and advancing the use of GRP systems for permanent ground support applications. He worked closely with in-house Bluey engineers and external consultants to ensure new design solutions could be adopted on site with practical advantages.