



香港岩土及岩土環境工程專業協會
ASSOCIATION OF GEOTECHNICAL &
GEOENVIRONMENTAL SPECIALISTS (HONG KONG)

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ANNOUNCEMENT

AGS (HK) Technical Seminar

Enhancing Durability in Geotechnical Infrastructure: Lessons from Six International Case Studies

by

Mr. Daniel Aldred
(Associate Director, Cementaid (HK) Ltd.)

Date : Thursday, 24 September 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/enhancing-durability-in-geotechnical-infrastructure-lessons-from-six-international-case-studies>

Please register by 18:30 on 24 September 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



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Synopsis:

Engineering Resilience: Overcoming Complex Geotechnical & Marine Challenges Through Advanced Admixture Technology

Modern geotechnical and marine engineering face unrelenting demands: aggressive groundwater chemistry, immense hydrostatic pressures, and aggressive marine environments that push conventional concrete to its limits. When building critical infrastructure like the Central-Wan Chai Bypass or enduring harsh subterranean extraction environments like Australian goldmines, standard mix designs often fall short against long-term water ingress, sulfate attack, and reinforcement corrosion.

A compelling case study review of six major international projects—including the Scenic Hill Tunnel, Mardie Jetty, the BHL Pipeline concrete chair, and Singapore mine tunnels—highlights how advanced Hydrophobic Pore-Blocking Ingredient (HPI) technology redefines structural durability. Instead of relying on vulnerable surface membranes, these projects leverage integral material science to block capillary absorption, resist aggressive ground ions, and neutralize continuous hydrostatic head pressure from within the concrete matrix itself.

This technical session explores how these engineering milestones successfully mitigated high-risk variables across varied geologies and climates. Examine real-world performance data, crack-mitigation strategies, and how integral waterproofing safeguards long-term design life for underground and coastal assets.

About the Speaker:

Mr. Dan Aldred is the Associate Director from Cementaid (Hong Kong) Ltd / Cementaid Group. He has represented Cementaid at industry conferences and technical seminars, particularly on the topic of Hydrophobic Poreblocking Ingredient (HPI) for Sustainable Concrete Structures, indicating involvement in technical promotion and development of concrete durability technologies.