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

Conventional and Innovative Geophysical Survey Methods for Common Urban Applications

By

Clement MOGENIER & Maria SAADE, PhD.
Sixense Group

Date : Thursday, 26 June 2025

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/conventional-and-innovative-geophysical-survey-methods-for-common-urban-applications

Please register by 18:30 on 26 June 2025. 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_b9449603473248468744 1cf4ed4d0bf9.pdf

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Synopsis:

This webinar offers a comprehensive examination of advanced geophysical investigation methods utilized in construction engineering.

It covers **gravimetry techniques** and **Ambient Noise Tomography**, both essential for analyzing subsurface density variations and geological structures.

The session also explores **pile investigation** and **obstruction detection**, critical for mitigating risks during underground excavation works.

Additionally, it introduces the **Cyljet method**, an electrical resistivity technique employed to accurately estimate the effective diameter of jet grout columns.

These methodologies enhance subsurface investigations, optimize engineering solutions, and contribute to more reliable construction practices. Their applications will be demonstrated through recent projects, providing practical insights and advancements in the field.

About the Speakers:

Dr. Maria Saadé, Ph.D. in Seismology from Institut de Physique du Globe de Paris (IPGP), is an expert in passive seismic methods, particularly the SISSTERRA Ambient Noise Tomography solution for Sixense Group. She has been part of a seismology research team focused on passive imaging and earthquake monitoring in Japan, as well as a planetology research team working with the scientific team of the NASA InSight mission. At Sixense, her experience spans multiple projects, including extensions to Paris metro lines, construction sites, dams, and seismic risk assessments in collaboration with entities such as the CEA (French Alternative and Atomic Energy Commission) and EDF (Electricity of France). Her expertise has contributed to tunneling projects in France and Luxembourg, deep underground storage facilities in Morocco, development projects in Hong Kong, and the NEOM project in Saudi Arabia.

Mr. Clement Mogenier, Senior Project Manager at Sixense Group, obtained his MSc in Applied Geosciences in 2006 from Université Savoie Mont Blanc, France. He has led large-scale geophysical surveys for major construction projects in France, including the Eastern High-Speed Railway, extensions to the Paris and Lyon metro networks, and the Lyon-Turin Base Tunnel (TELT). His international experience spans infrastructure projects in Africa, Western Europe, Asia, the Middle East, and Oceania, including West Island and South Island Lines, Shatin to Central Link in Hong Kong, Nam Theun 2 Dam in Laos, Metro Tunnel Project in Melbourne, and, most recently, the NEOM project in Saudi Arabia.

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