



AGS (HK) & The Hong Kong Polytechnic University Joint Technical Seminar
“Deep Cement Mixing - Comparison of Sweden, America and Japan”

by

Prof. Masaki Kitazume

- Date** : Friday, 31 May 2019 (**REVISED DATE**)
- Time** : 6:30 pm – 8:00 pm
- Venue** : Lecture Theatre Y304, 3/F Lee Shau Kee Building, The Hong Kong Polytechnic University, Kowloon (see enclosed map)
- Enquiry** : For enquiries, please contact
Haydn Chan (email: haydn.chan@arup.com)
- Seminar Fee** : Free of charge
- Registration** : No prior registration is required. Seating capacity is provided for approximately 120 people. CPD certificates will be provided after the seminar.
- Book Prize** : Book prize is open to all young attendants under 35 years old for the submission of a good quality report (max. 500 words) on this event. Book Prize reward comprises a book "Geology of Site Investigation Boreholes in Hong Kong" by Chris Fletcher and book coupon HK\$300 from 三聯書店.

Synopsis:

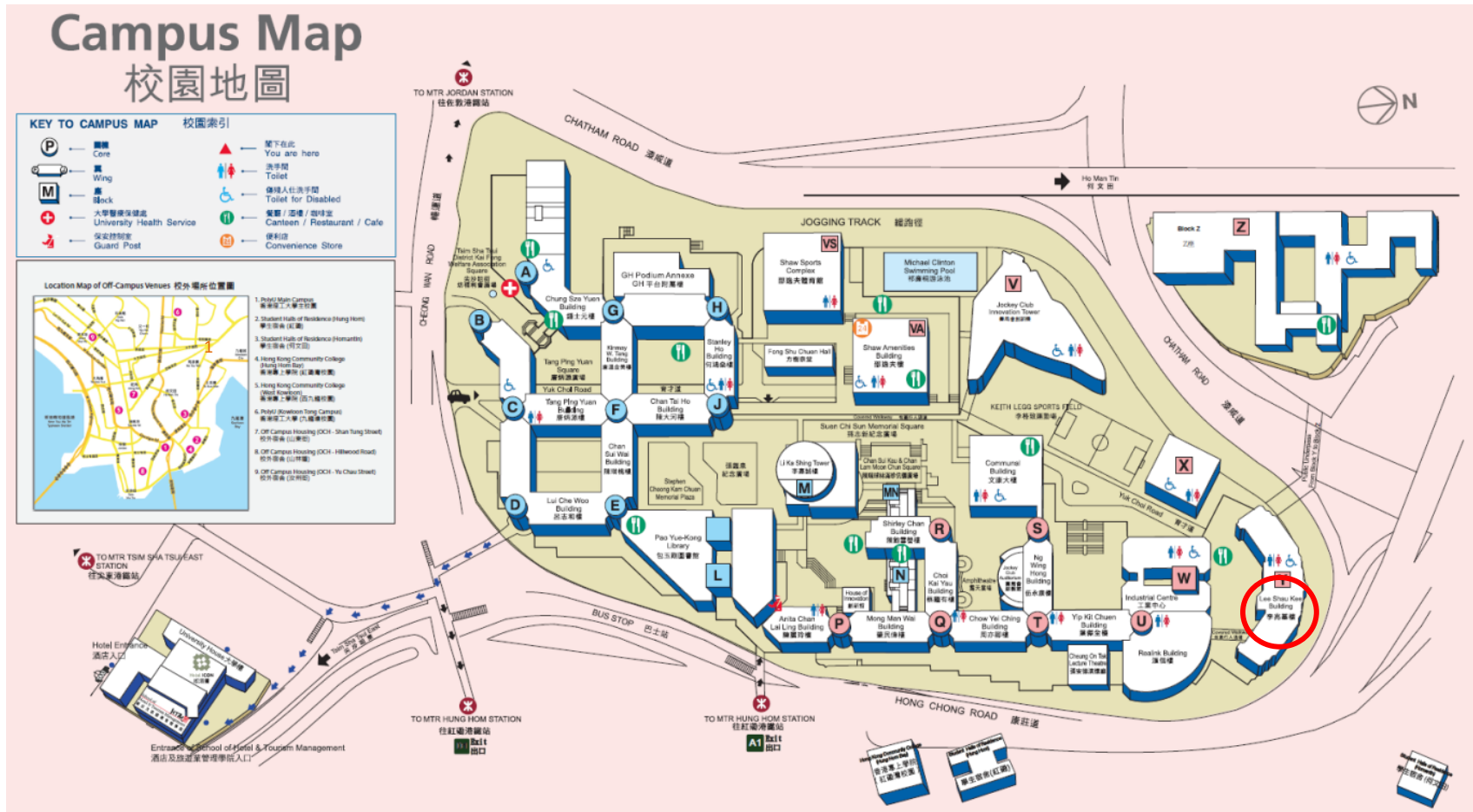
The deep mixing technology is a deep in-situ admixture stabilization technique using lime, cement or lime-based and cement-based special binders. Until the end of the 1980s, the deep mixing has been developed and practiced only in Japan and Nordic countries with a few exceptions. In the 1990s the deep mixing gained popularity also in Southeast Asia, the United States of America and central Europe. The deep mixing technology has been developed in these regions according to the local ground conditions, target structure, expected improvement purpose and so on. As the results, laboratory mix test procedure, design, mixing machine, quality control and assurance are also quite different from the regions.

In the evening talk, Prof. Masaki Kitazume will introduce and compare the fundamental concept of the technology, design, execution and QC/QA in these regions and discuss future development of the deep mixing technology in Hong Kong.

About the Speaker

Prof. Kitazume graduated from Tokyo Institute of Technology with BEng in 1979, and MEng in 1981. Then he joined the Port and Harbour Research Institute, Yokosuka, where he has worked for 30 years. He has been Head of the Soil Stabilization Laboratory for 20 years and has worked on the interaction of improved ground and soft ground in order to establish design codes for several ground improvement techniques. In 1994 he was awarded a DEng from Tokyo Institute of Technology on the design of Deep Mixing improved ground. In 2011 he became Professor of the Department of Civil and Environmental Engineering, Tokyo Institute of Technology.

Prof. Kitazume has been involved in many land reclamation and ground improvement projects, including Tokyo/Haneda and Kansai International Airports, Bussan Immersed Tunnel Project in Korea, Cai Mep Port in Vietnam, Virginia Port Expansion in USA, Pasir Panjang Terminal in Singapore, and a peer review for Deep Cement Mixing for the Hong Kong Third Runway and Tung Chung New Town Extension (East) Reclamation. He has published three books on Deep Mixing, Sand Compaction Piles and Pneumatic Flow Mixing. He has won many awards and he is a Member of the ISSMGE Technical Committee TC17 on Ground Improvement.



Campus Map, The Hong Kong Polytechnic University