



THE HONG KONG
INSTITUTION OF ENGINEERS
香港工程師學會

Geotechnical Division
岩土分部

Proceedings of
The HKIE Geotechnical Division
41st Annual Seminar:
Adapt to Challenges, Create to Thrive

Editors

TOH Seng-Huat, Gavin
LEE Siew Wei

Jointly Organized by

Geotechnical Division, The Hong Kong Institution of Engineers
&
The Hong Kong Geotechnical Society

The HKIE Geotechnical Division 41st Annual Seminar 2021



Adapt to Challenges, Create to Thrive

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TOH Seng-Huat, Gavin
LEE Siew Wei
(Editors)

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GDAS2021 (18th May 2021)

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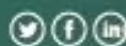
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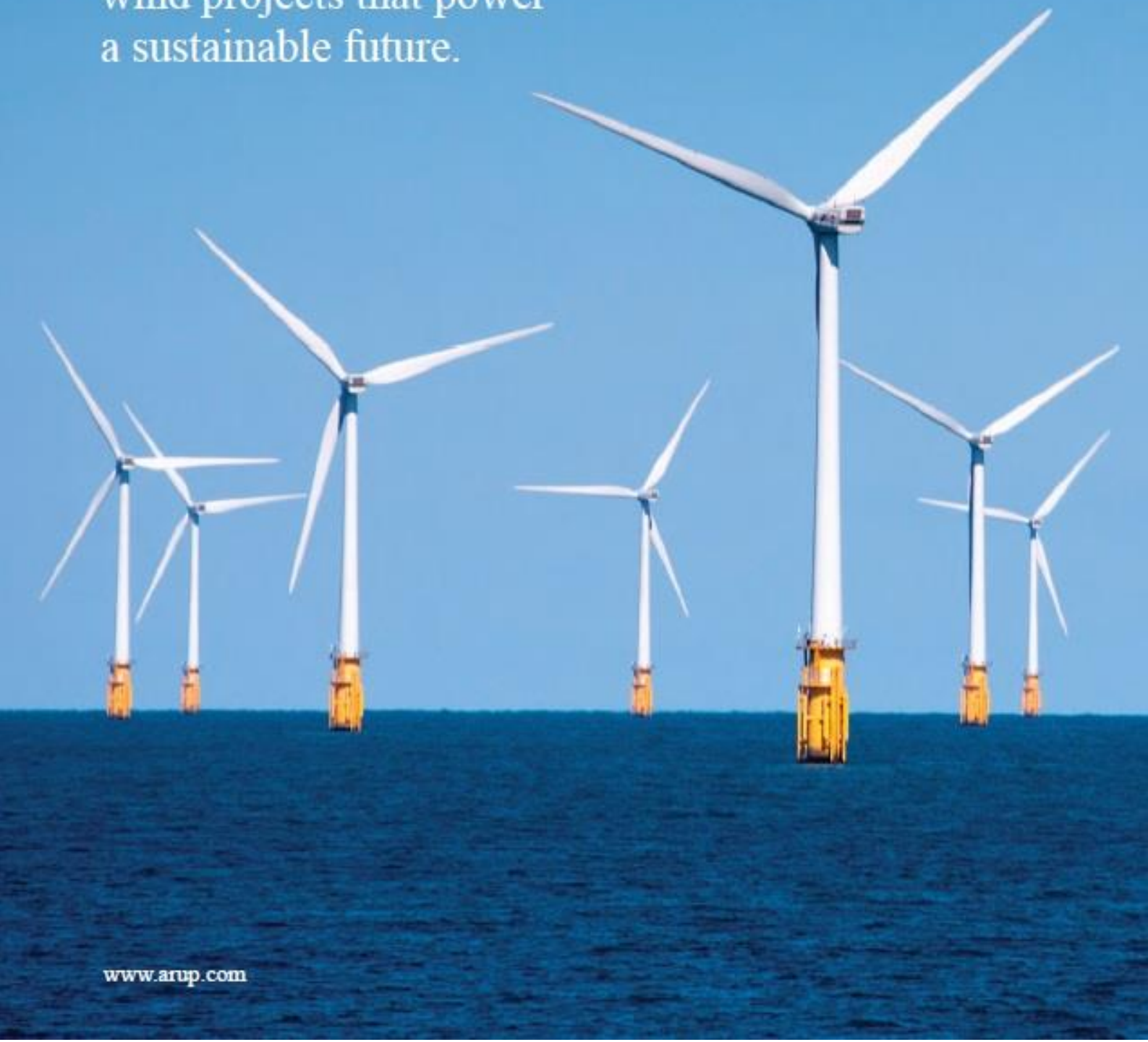
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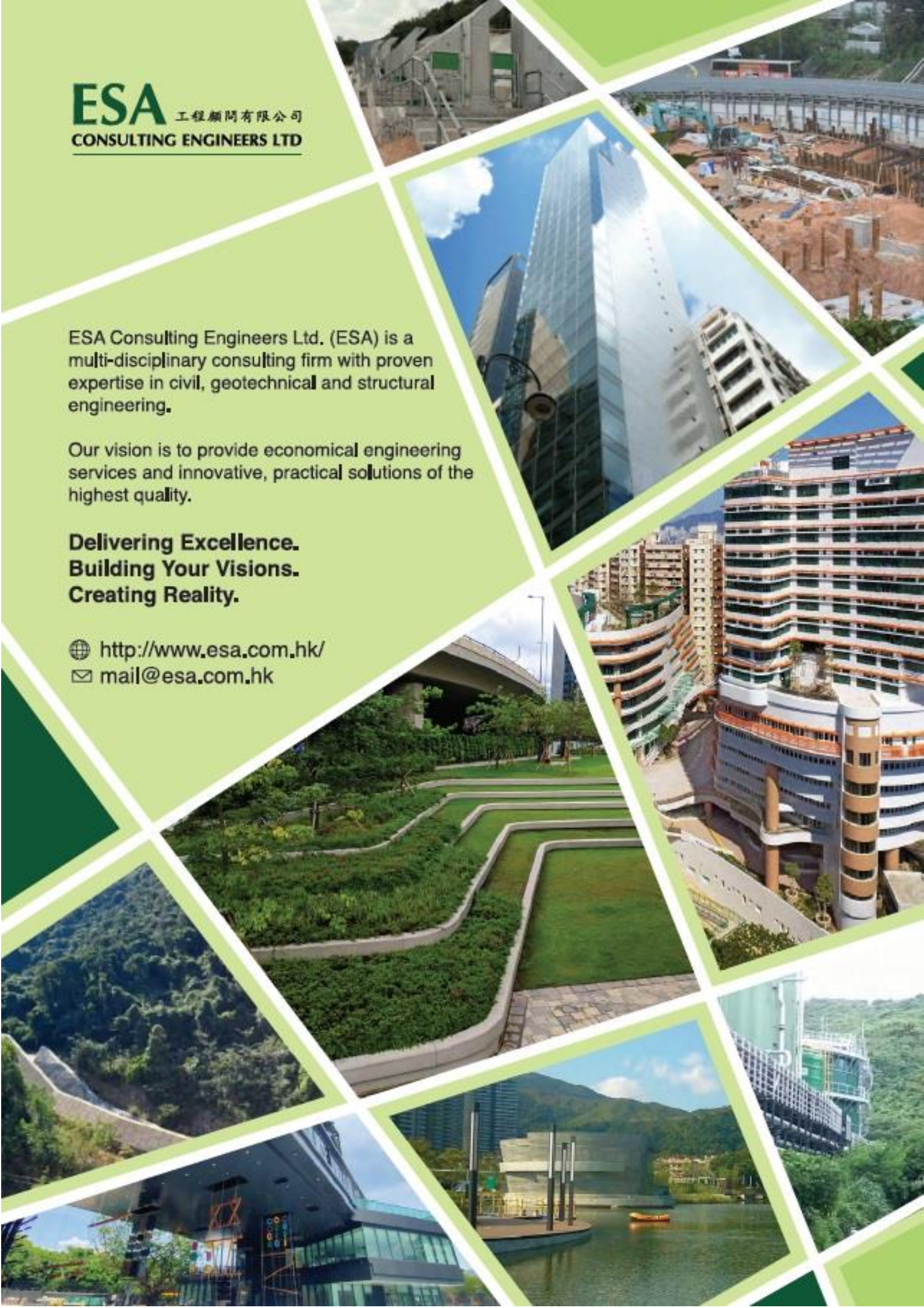


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About the Seminar

I would like to welcome all distinguished guests, speakers, academics, and geotechnical professionals to the 41st HKIE Geotechnical Division Annual Seminar. This year's seminar is held together with the Tripartite Seminar, jointly with CIE and IEM, and the HKGES Bright Spark Lecture 2021.

The 2021 Annual Seminar is titled "Adapt to Challenges, Create to Thrive". In the last four decades we have seen geotechnical engineers play an important part in the growth and development of Hong Kong. There has been notable advancement and innovative engineering in different areas: safety control and management of HK's sloping terrain; deep excavation in urban areas; larger and deeper tunnels and caverns for transportation, storage and treatment works; deep foundations with complex geology and on steep terrain for housing; and reclamations for high-rise buildings and infrastructure development. We have also seen progress in soil modelling and computation with the support of sound site investigation, refined laboratory testing and real-time instrumental monitoring. In recent years, a further advancement is a big shift to the harnessing of digital technology that helps to transform our approach in geotechnical design, control, and construction.

With the aim of generating useful insights for the profession, this year's seminar provides a platform for practitioners to share innovations, ideas, and techniques in geotechnical engineering to pursue higher goals and to meet new demands in Hong Kong and overseas.

On behalf of the HKIE GD, I would like to express my gratitude to the invited speakers and authors contributing to this seminar. My special thanks go to all members of the Organising Committee, led by Ir Dr Gavin Toh, who have worked hard in making this event happen. I would also like to thank the Hong Kong Geotechnical Society (HKGES) for jointly organising this seminar, as well as the HKIE Civil Division and Structural Division for their support.



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