

# ice

## Hong Kong



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# G&S One-Day Seminar 2025

## Infrastructure resilience and adaptation – engineer a vibrant and sustainable future

**01 March 2025 (Saturday), 09.00 – 17.30 (HKT)**  
**Meeting Room S421,**  
**Hong Kong Convention and Exhibition Centre (HKCEC),**  
**Wanchai, Hong Kong**

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**Registration:**

<https://forms.gle/w7oun4QW9PYUansp8>

**Application deadline:**

**23 February 2025 (Sunday)**  
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## The theme of the Seminar

Infrastructure systems face a plethora of challenges arising from climate change, urbanisation and evolving societal demands. The delivery of resilient and adaptative infrastructures is essential under the new normal.

In this One-Day Seminar, speakers will discuss:

- frameworks, strategies and insights in engineering resilient and adaptative infrastructures from different perspectives, including the status quo, ongoing work fronts and next steps by various parties
- international frameworks, local practices and innovative solutions
- implications of sustainability in engineering a resilient, adaptative and vibrant future

### Opening address



**Prof Christine LOH, SBS, JP, OBE, Chevalier de l'Ordre National du Mérite**

Chief Development Strategist  
Institute for the Environment  
The Hong Kong University of Science and Technology

### Closing remarks



**The Hon Gary ZHANG**

Member of the Legislative Council

### Keynote speakers



**Mr Sanjaya BHATIA**

Head of Office  
United Nations Office for Disaster Risk Reduction (UNDRR) Office for Northeast Asia (ONEA) & Global Education and Training Institute (GETI)  
*(Delivering online)*



**Mr Roger WONG, JP**

Director of Water Supplies  
Water Supplies Department  
HKSAR Government

### Distinguished speakers



**Prof Francis AU**

Head of AIS Academy and Technical Advisor  
Asia Infrastructure Solutions &  
Honorary Professor  
Department of Civil Engineering  
The University of Hong Kong



**Dr Raymond CHEUNG, JP**

Head of Geotechnical Engineering Office  
Civil Engineering and Development Department  
HKSAR Government



**Mr Robert GERRARD**

Senior NEC Consultant and Secretary  
Thomas Telford Limited



**Dr Alalea KIA**

Advanced Research Fellow &  
Resilient Sustainable Infrastructure Group Lead  
Imperial College London  
*(Delivering online)*



**Mr Edwin LAU**

Assistant Director/Operations and Maintenance  
Drainage Services Department  
HKSAR Government



**Mr Tony LAU**

Director of Projects  
Binnies Hong Kong Limited



**Mr Stanley LIU**

Executive Director  
Ports & Marine, Transportation  
AECOM Asia Company Limited



**Mr Jack YIU**

Director of Infrastructure, Geotechnics and  
Energy Group  
Arup

Programme		
Opening	09.00 – 09.15	Welcome address by <b>Mr Sampson TAM</b> Chairman, ICE HKA G&S Session 2024-25
		Opening address by <b>Prof Christine LOH, SBS, JP, OBE, Chevalier de l'Ordre National du Mérite</b> Chief Development Strategist, Institute for the Environment, The Hong Kong University of Science and Technology
Session 1	09.15 – 09.45	<b>Mr Sanjaya BHATIA</b> ( <i>Delivering online</i> ) Head of Office, United Nations Office for Disaster Risk Reduction (UNDRR) Office for Northeast Asia (ONEA) & Global Education and Training Institute (GETI) <i>Introducing Sendai Framework and trends in disaster risk reduction</i>
	09.45 – 10.15	<b>Mr Roger WONG, JP</b> Director of Water Supplies, Water Supplies Department, HKSAR Government <i>Strategies for water sustainability in Hong Kong</i>
Keynote presentations	10.15 – 10.30	Discussion session hosted by <b>Prof Christine LOH, SBS, JP, OBE, Chevalier de l'Ordre National du Mérite</b> Chief Development Strategist, Institute for the Environment, The Hong Kong University of Science and Technology
	<b>10.30 – 10.45 Break</b>	
Session 2	10.45 – 11.15	<b>Mr Edwin LAU</b> Assistant Director/Operations and Maintenance, Drainage Services Department, HKSAR Government <i>Enhancing the city's flood resilience - the new Integrated Flood Management Strategy for Hong Kong to combat climate change</i>
	11.15 – 11.45	<b>Prof Francis AU</b> Head of AIS Academy and Technical Advisor, Asia Infrastructure Solutions & Honorary Professor, Department of Civil Engineering, The University of Hong Kong <i>Effects of recent changes in design actions for earthquake, temperature and wind on the bridge design philosophy in Hong Kong</i>
	11.45 – 12.15	<b>Mr Robert GERRARD</b> Senior NEC Consultant, Thomas Telford Limited <i>NEC secondary Option X29 Climate Change - from concept to practical application</i>
	12.15 – 12.30	Discussion session hosted by <b>Prof Christine LOH, SBS, JP, OBE, Chevalier de l'Ordre National du Mérite</b> Chief Development Strategist, Institute for the Environment, The Hong Kong University of Science and Technology
<b>12.30 – 14.00 Lunch break</b>		
Session 3	14.00 – 14.30	<b>Dr Raymond CHEUNG, JP</b> Head of Geotechnical Engineering Office, Civil Engineering and Development Department, HKSAR Government <i>The ascent of smart Hong Kong Slope Safety System</i>
	14.30 – 15.00	<b>Mr Jack YIU</b> Director of Infrastructure, Geotechnics and Energy Group, Arup <i>Unlocking better city's connectivity and resilience through advancement in geotechnical engineering</i>
	15.00 – 15.30	<b>Mr Tony LAU</b> Director of Projects, Binnies Hong Kong Limited <i>Enhancing infrastructure resilience in 21st century: the development and importance of trenchless technology in Hong Kong</i>
	15.30 – 15.45	Discussion session hosted by <b>Prof Ken Ho</b> Hong Kong Representative on Council, Institution of Civil Engineers (ICE)
<b>15.45 – 16.00 Break</b>		
Session 4	16.00 – 16.30	<b>Mr Stanley LIU</b> Executive Director, Ports & Marine, Transportation, AECOM Asia Company Limited <i>Adaptation and resilience strategies and measures against coastal hazards under extreme weather and climate change impact</i>
	16.30 – 17.00	<b>Dr Alalea KIA</b> ( <i>Delivering online</i> ) Advanced Research Fellow & Resilient Sustainable Infrastructure Group Lead, Imperial College London <i>Kiacrete - A climate change resilient permeable pavement for a sustainable built environment</i>
	17.00 – 17.15	Discussion session hosted by <b>Prof Ken Ho</b> Hong Kong Representative on Council, Institution of Civil Engineers (ICE)
Closing	17.15 – 17.30	Closing remarks by <b>The Hon Gary ZHANG</b> Member of the Legislative Council
		Closing speech by <b>Mr Johnson WONG</b> Chairman of One-Day Seminar 2025 Organising Committee, ICE HKA G&S Session 2024-25

## Technical report prize

ICE HKA awards technical report prizes to junior ICE members who reside in Hong Kong and prepare reports of a high standard on the captioned One-Day Seminar 2025. Winners will be given a prize of HKD500.

ICE HKA reserves the right to modify and publish the winning report in any ICE publication channels, including the ICE Breaker – the newsletter of ICE Hong Kong.

### Scope and eligibility

The prizes are open to ICE Student, Graduate and Associate members, as well as professionally qualified members who attained their technician, incorporated or chartered status within five years before the designated ICE HKA event. As a remark, each member can be awarded a maximum of two prizes in each calendar year.

### Criteria of award

Authors are required to submit a report on the captioned One-Day Seminar 2025. The report could summarise the event, discuss your learning outcomes and/or express your insights on particular topics. The report should be typed in MS Word format, contain a maximum of 500 words and in a form suitable for direct publication in ICE Breaker. The report may include a maximum of two photographs in .jpeg format.

### Procedure of selection

The deadline for submission is **31 March 2025** (Monday). An electronic copy of the report in .docx format should be submitted to ICE HKA by e-mail at [icehk@ice.org.uk](mailto:icehk@ice.org.uk). Reports will be assessed by a judging panel comprising three ICE HKA committee members, as well as other relevant personnel. The prize will be awarded to the best submission(s) that is/are judged to be of a sufficient standard in terms of accuracy of technical matters and the use of English. ICE HKA reserves the right not to award a prize if there are insufficient entries of an acceptable standard.

## Supporting organisations



The Association of Consulting Engineers of Hong Kong  
(Young Members Committee)  
香港顧問工程師協會 (青年委員會)



**Building Technology  
Research Institute**  
香港建築科技研究院

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## Price

<b>Fee:</b>	Student Member*:	Free of charge
	Graduate Member:	HKD50
	Member of other grades:	HKD100
	Non-member:	HKD200

\*Student Members shall pay a deposit of HKD50, which will be returned on the day of the event only when participants have attended the entire event.

## Enquiry

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