

Co-organisers:**Supporting Organisation:**

**ICE x IMechE Joint Seminar:
Decarbonisation in Civil Engineering and E&M System Design/ Applications**

Introduction:

With the pressing challenge of climate change, “decarbonisation” has become one of the hot topics in engineering industry nowadays. ICE Hong Kong Association and IMechE Hong Kong Branch will co-organise a seminar to introduce the decarbonisation design and applications in civil engineering and E&M system design and applications. Experts will share the innovative strategies and technological advancements to combat climate change and achieve a sustainable low carbon future.

Details of Seminar:

Date: 07 Sep 2024 (Sat)
Time: 9:30 a.m. to 12:35 p.m. (Reception Start at 9:00a.m.)
Venue: Lecture Theatre Room KB223, 2/F, Knowles Building,
 The University of Hong Kong (香港大學鈕魯詩樓 KB223 講堂)

Topics and Speakers of Seminar:

<u>Session 1</u>	Topic : Integrating Design to Operation Towards Net Zero Speaker: Mr. Barry Lau, Head of Building Services, Swire Properties Limited
<u>Session 2</u>	Topic : Civil Engineering in the Built Environment in the ESG Era towards 2050 Speaker: Mr. Tim Wong, Associate, Ove Arup & Partners HK Limited
<u>Session 3</u>	Topic : HK Roadmap from Net Zero Carbon to Building Decarbonisation Speaker: Mr. Colin Chung, Global MEP Services Line Lead, Buildings+Cities, Surbana Jurong Group
<u>Session 4</u>	Topic : Decarbonisation in Construction Industry Speaker: Mr. Samuel Wu, Assistant Project Director, China State Construction Engineering (HK) Limited

Rundown:

9:00 a.m. Reception
 9:30 a.m. Opening Remarks
 9:35 a.m. Seminar - Session 1
 10:15 a.m. Seminar - Session 2
 10:55 a.m. Break
 11:10 a.m. Seminar - Session 3
 11:50 a.m. Seminar - Session 4
 12:30 a.m. Closing Remarks
 12:35 p.m. End of Seminar

Co-organisers:



Supporting Organisation:



Biography of Speakers:

A portrait photograph of Mr. Barry Lau, a middle-aged man with glasses, wearing a dark suit and tie.	Topic: Integrating Design to Operation Towards Net Zero
Speaker: Mr. Barry Lau, Head of Building Services, Swire Properties Limited	
Biography:	
<p>Mr Barry Lau is the Head of Building Services, Technical Services & Sustainable Development at Swire Properties Limited. He is responsible for formulating the corporate decarbonisation and energy saving strategies within Swire Properties to pave way for the company in advancing towards a net zero future and technical support to the company's operation across Hong Kong and Chinese mainland. He is currently leading implementation strategies of energy reduction, Retro-commissioning, implementation of monitoring-based commissioning of all existing portfolios for deep energy savings and digital transformation of technical services and establishment of cloud-based energy management platform across global operations. In addition, he is also responsible for establishment of Sustainability Development Vision and Design of new projects. Barry is a fellow member of HKIE and IMechE. He is also registered as RCx Professional.</p>	



Topic: Civil Engineering in the Built Environment in the ESG Era towards 2050

Speaker: Mr. Tim Wong, Associate I Green Advocate, Ove Arup & Partners HK Limited

Biography:

Mr Tim Wong is a civil engineer in Arup, Tim has over fifteen years of experience in managing large-scale, complex sustainable infrastructure projects and exporting Hong Kong expertise to those important infrastructure projects in the Greater Bay cities and Southeast Asia, to raise the image of Hong Kong engineers in his early career including Hong Kong West Drainage Tunnel, Admiralty Integrated Station, Kwun Tong Line Extension, Shenzhen Metro Line 4 Extension with topside development, Macau Sec Pai Van Light Rail Transit and ADB's Build Build Build programme in Philippines.

After his exposure on green infrastructure and transportation sector, he is a green advocate who continues to drive the long-established profession into new ESG dimensions with digital technology and sustainability mindset with Arup Climate and Sustainability Services Group. Apart from being civil engineering and BIM professionals, he is also a Certified ESG Analyst and Certified Carbon Auditor specialising in carbon management and ESG services in the built environment to pledge net zero carbon targets for better sustainable future.

Tim was named the HKIE Young Engineer of the Year Award in 2020 and represented HKIE as the Hong Kong Delegate in COP28UAE and inducted in the Young Engineers/ Future Leaders as a Standing Committee of the World Federation of Engineering Organisations from 2023 to 2027, and the Young Expert Committee of the China Highways and Transportation from 2022 to 2026.

Tim is passionate in local volunteering works, he is supporting the Hong Kong Institution of Highways and Transportation Past-Honorary Secretary and China relations convener, HKGBC Infrastructure Rating System committee, HKIE School Ambassador, and ACE Mentoring programme and Lifewire Foundation committee.



Topic: HK Roadmap from Net Zero Carbon to Building Decarbonisation

Speaker: Mr. Colin Chung, Global MEP Services Line Lead, Buildings+Cities, Surbana Jurong Group

Biography:

Mr Chung has over three decades of engineering experience in the design and management of commercial, industrial, infrastructure and transportation, institutional, mission critical and residential projects. His particular expertise includes Heating Ventilation and Air-conditioning (HVAC) systems, Cogeneration and Trigenation Power System, District Cooling System, Energy Management, Green Engineering and Design.

Colin graduated from City, University of London and subsequently obtained a Master of Science in Engineering in University of Hong Kong. Colin started his career as a graduate engineer in an international consulting engineering firm and recently joined SJ Group as the Global MEP lead.

Colin is a Fellow member of the Institution of Mechanical Engineers (IMEchE) since 2004. Current, he is the President of Association of Energy Engineers – HK Chapter (AEE-HKC). Colin is also the Past President and Honourable Advisor of Hong Kong Association of Energy Engineers (HKAEE), Past Chairman of Association of Consulting Engineers of Hong Kong (ACEHK), Past Chairman and Honourable Advisor of Energy Institute (HK Branch). He is also the Fellow member of the Hong Kong Institution of Engineers (HKIE), Chartered Institution of Building Services Engineers (CIBSE) and Energy Institute (EI).

Co-organisers:



Supporting Organisation:



Topic: Decarbonisation in Construction Industry

Speaker: Mr. Samuel Wu, Assistant Project Director,
China State Construction Engineering (HK) Limited

Biography:

Mr Samuel Wu is an Assistant Project Director in China State Construction Engineering (HK) Limited, he has over twenty-seven years of experience in Client/ Developer, Engineering Consultant and Main Contractor of construction, engineering and programming for undergrounds structures, residential buildings, large-scale infrastructure and landfill projects.

He is a Chartered Civil Engineer (both United Kingdom and Hong Kong) and a Chartered Member of the Engineering Council New Zealand. He had been worked in many remarkable projects including City Rail Link Project, Seascope Residential project in New Zealand; MTR Railway Extensions, Disney Theme Park, Olympics and Paralympics Equestrian Venue, Quarantine Stables, Central Wanchai Bypass and Tunnels in HK, and Asian Games Equestrian Venue in Mainland China. He is currently involved in both Organic Waste Treatment Facilities – Phase 2 and West New Territories Landfill Extension projects.

Overall he has been holding various supervisory and managerial roles through which he gained extensive experiences such as relationship management, value engineering, project management, design and construction management, health and safety management, environmental management, tendering, quality assurance and control.

He was supporting the Hong Kong Institution of Engineers, and Institution of Civil Engineers, United Kingdom as a Lead Professional Reviewer in the last 10 years. He also mentored and helped the development of young engineers while he was in New Zealand.