C&S JOINT ACCREDITATION COMMITTEE

ASSOCIATION OF CONSULTING ENGINEERS SINGAPORE

C&S RE/RTO NIGHT 2023

DATE: 08 DEC 2023 (FRIDAY)

TIME: 6.00PM-9.00PM

VENUE: THE JTC SUMMIT (LEVEL 2), 8 JURONG TOWN HALL ROAD, (S)609434

CPD: 2 STU (STRUCTURAL) - APPROVED / 2 PDU - TBC

REGISTRATION FEE: $60 (NETT) FOR C&S RE/RTO/ IES & ACES MEMBERS

OTHERS: $95 (NETT)

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EVENT HIGHLIGHTS

6.00pm	**Start of Registration**
6.30PM	**Dinner Buffet (HALAL Certified)**
7.15PM	**Welcoming Guest-of-Honour, Er. Thanabal, Group Director, Building Resilience Group, Commissioner of Building Control**
7.20PM	**Welcome Address by Er. Chan Ewe Jin, Co-Chairman of IES/ACES RE/RTO Joint Accreditation Committee, Deputy President of IES**
7.30PM	**Talks by Associate Professor Goh, Director of the Centre for Project and Facilities Management, NUS Department of the Built Environment (DBE)**
8.00PM	**Talks by Er. Chee Hoe, Senior Engineer, BCA**
8.20PM	**Talks by Er. Yow Cheong Hoe, Commercial Engineering Director, Chye Joo Construction**
8.40PM	**Presentation of Exemplary Site Supervisor Awards for 2023**
8.50PM	**Group Photos Session**
9.00PM	**End of Event**

SPEAKERS' PROFILE & SYNOPSIS

Associate Professor Goh, Assistant Dean at the College of Design and Engineering (CDE), National University of Singapore (NUS) and the Director of the Centre for Project and Facilities Management, NUS Department of the Built Environment (DBE)

Prof Goh concurrently leads the Safety and Resilience Research Unit (SaRRU) in the Centre. He was the Dean's Chair of CDE from 2020-2023. Dr. Goh was the Deputy Head (Research) in DBE, NUS and an NUS Institution Review Board member. His expertise are in Workplace Safety and Health (WSH), project management, and risk management. He worked as a senior consultant in the oil and gas industry, Assistant Director (Investigations) at the Singapore Ministry of Manpower, and Senior Lecturer at Curtin University in Western Australia. He held numerous voluntary or honorary positions including Council Member of the Institution of Engineers Singapore (IES) (2015-2017), Chairman of the IES Health and Safety Engineering Technical Committee (2015-2018), Honorary Researcher of the Singapore Workplace Safety and Health Institute (2014-2017), Member of the 2nd and 3rd External Review Panel for SAF Safety (ERPSS) (2017-current), and member of the Outdoor Adventure Education Council (2022-current). He participates actively in WSH standards committees and workgroups in Singapore and had consulted as an expert witness for WSH-related litigation processes. He had also provided advice on Myanmar's WSH legislation through IALI and ILO.

Topic: AI-enabled Technologies for Improving Site and Safety Management

This presentation will cover six types of AI-enabled technologies that are relevant to construction site and safety manageemnt. These technologies include robots and cobots, computer vision and video analytics, sensors and wearables, analytics, and chatbots. To evaluate these technologies, three key variables are introduced: technology readiness level, generality, and hierarchy of control. Technology readiness level measures the readiness of the technology in terms of their level of development and validation in actual operational conditions. Generality measures how applicable the technology is to a wide range of situation. Hierarchy of control measures effective the technology is in terms of risk reduction. Understanding these variables help engineers assess which technology has higher potential for improving site and safety management.

Er. Chong Chee Hoe, Senior Engineer, BCA

Er. Chong has 12 years of experience in structural engineering, and has worked in design consultant, and LTA project team prior to joining BCA. His particular work interest focuses on matters relating to steel structures and formulating regulatory policies to ensure structural safety in building works.
Er. Chong will be speaking about "Dos and Don'ts of Site Supervision" offering valuable insights and practical advice to enhance the effectiveness of site supervision in construction projects.

Topic: Site Supervision Requirements, some "Dos" and "Don'ts" of Site Supervision and some of the case studies

SPEAKERS' PROFILE & SYNOPSIS

Er. Yow Cheong Hoe, Commercial Engineering Director, Chye Joo Construction

Er. Yow Cheong Hoe has more than 25 years of experience in design, supervision and contract management. He is also a Risk Assessment Manager, an ISO Auditor, a Design for Safety Professional and a Qualified Erosion Control Professional. He is experience includes the design and supervision of reinforced concrete, pre-stressed concrete, structural steel, deep excavations, fibre-reinforcement, bridges and tunnels, infrastructure (roads, drains, sewers, utilities), earthworks (land preparation) and master-planning. He had more than two years in full-time supervision as Resident Engineer with direct supervision experience in earthworks, slopes and reclamation, piling works, short-line match-cast and long-line bridge segment pre-casting and installation, heavy lifting (by cantilever gantry, traveling gantry and marine cranes), pre-stressing works, stay-cables installation, pre-cast elements on buildings, steel structures, fibre-reinforcements, structural enhancements, and deep excavations. Er. Yow was a design consultant with T.Y.Lin International and KTP Consultants (a member of Surbana Jurong Group) . He was a member of the Working Group for the revision of SS515: Code of practice for supervision of structural works (published Dec 2021).

Topic: Practical Supervision of Construction

Supervision of Construction is a very critical part of all construction projects not only because it is regulated by the Building Control Act or that it is important to maintain high quality of works, but to ensure that an extra step is taken to ensure that the construction is done correctly and addresses details not captured in drawings, specifications or regulations. However, supervisors are not an unlimited resource and we have to manage the time and availability of the team to ensure proper and sufficient supervision, yet not compromising on quality or to cause delays. This discussion on practical supervision looks into measures to assist site supervisors in carrying out their duties in a practical manner given limits in time and manpower.