

# Half-Day Seminar

## Automated Waste Collection System (AWCS)

### Synopsis

Ever imagine the roadside rubbish bins that self-emptying and streets without visible garbage truck resulting in a clean and sustainable environment to appreciate for?

In this session, we will discuss an innovative engineering technology that will help mankind solve one of the most problematic issues in the world today: solid waste management. The technology is known as the Automated Waste Collection System (AWCS), which transports municipal or domestic solid waste through underground or ceiling-height pipes at high speed from waste chutes or outdoor load stations to a centralized collection station located away from residential neighbourhoods. The waste transported through the pipe network will be stored in a fully sealed container that is periodically collected by a conventional arm roll truck.

We will explore the various leading-edge AWCS technologies available to cater to the waste removal needs of different development types.

Similarly, we will discuss the benefits that system sustainability offers to the community and the environment, as well as the challenges we may encounter in implementing the system.



The Institution of Engineers, Malaysia  
(Penang Branch)



21 Mar 2025 (Fri)



2.00pm – 5.30pm



IEM Penang Secretariat, 1-04-02, eGate,  
Lebuh Tunku Kudin 2, 11700 Penang

**BEM CPD Hours: 3**

Ref: IEM25/PG/018/S

**IEM Member : FOC**

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In collaboration with:



## About the speaker

Ir. Chea Thean Teik is the Group Chief Executive Officer of STREAM Group, Malaysia's first Central Vacuum System (CVS) and Automated Waste Collection System (AWCS) Company. Chea joined STREAM Group back in 2005 in Malaysia and has since made significant contributions to developing STREAM Group, which today serves over 350 customer projects over Malaysia, Singapore, Australia, China, India, Hong Kong, Taiwan, Qatar, and United Arab Emirates.

As a certified Profession Mechanical Engineer, Chea has a deep understanding of the market with over 27 years of vast & multi-country experiences in CVS & AWCS, Waste Management, Building's M&E Services, Mechanical Handling Engineering, Project Management, and Contract Administration. Always enthusiastically in sharing Waste Management experience and knowledge, Chea was actively invited as speaker of few universities, corporations and conferences, locally and internationally throughout recent years.

Ir. Chea also awarded the title of International Professional Engineer (IntPE), APEC Engineer, ASEAN Chartered Professional Engineer (ACPE), and ASEAN Engineer (by AER).



Speaker  
**Ir. Chea Thean Teik**  
Group Chief Executive Officer  
STREAM GROUP



## Program

Time	Details
1.30pm -2.00pm	Registration
2.00pm - 3.30pm	Session 1
3.30pm - 4.00pm	Tea break
4.00pm - 5.00pm	Session 2
5.00pm - 5.30pm	Q&A