The School of Civil and Environmental Engineering cordially invites you to the Tan Swan Beng (TSB) Public Lecture Series on Sustainable Urban Living.

TSB Public Lecture on Design and Technology Innovations for Greater Sustainability and Better Living

by Dr Cheong Koon Hean

Tan Swan Beng Endowed Professor
CEO of Housing and Development Board (HDB)

Friday, 3 October 2014 • 08:30 am to 1:00 pm • LT 2A @ North Academic Complex
Nanyang Technological University, Singapore

Admission is Free! All are welcome! Seats are limited. Registration will stop once seats are full.
Abstract of TSB Public Lecture

Singapore is a land and resource constrained city state. Despite these constraints, Singapore is recognised internationally for its good living environment. It also has one of the highest home ownership rates in the world, made possible largely by the huge public housing programme developed by the HDB. Today, more than 80% of the population live in HDB estates, well served by good infrastructure and amenities. Even as we plan for Singapore’s future, HDB will have to address not only land and resource constraints, but also demographic, environmental and climate change challenges, including the need to meet the rising aspirations of Singaporeans for an even better quality of life.

Dr Cheong will speak about the new ideas being explored in HDB’s latest master plans and housing typologies for a new generation of public housing township. These new plans aim to provide a well designed, sustainable and community centric environment with distinctive neighbourhoods, capitalising on ‘green’ and ‘blue’ elements to achieve better living. She will also share HDB’s on-going research and technology innovations that will support the realisation of these new thrusts. These include holistic sustainability initiatives and a new framework for a Smart HDB Town, which will see the progressive transformation of the heartlands into highly liveable towns of the future.

Biography of Speaker

Dr Cheong Koon Hean is currently the CEO of the Housing and Development Board (HDB) overseeing the development and management of some 1 million public housing flats in 26 towns/estates. Since joining HDB in 2010, she has formulated a roadmap to develop better designed, more sustainable and community centric towns.

Dr Cheong was a Deputy Secretary in the Ministry of National Development from 2001 to 2014 and concurrently also the CEO of the Urban Redevelopment Authority from 2004 to 2010, in charge of strategic land use planning, conservation of built heritage and the real estate market. She initiated the Architecture and Urban Design Excellence Programme to uplift design standards and played a key role in the planning and development of major growth areas, such as Marina Bay, Jurong, Kallang and Paya Lebar.

Dr Cheong is currently on the Boards of the HDB, Jurong Port Pte Ltd, the National University of Singapore, the Civil Service College, as well as the International Federation for Housing and Planning. She was previously on the boards of the Urban Redevelopment Authority, Jurong Town Corporation, National Heritage Board and the international Urban Land Institute. She also served on several international advisory panels formed by the World Business Council for Sustainable Development, Brookings Institution and is a member of the World Economic Forum’s Network of Global Agenda Councils. She also helped to initiate the Lee Kuan Yew World City Prize and is currently a nominating committee member of the Prize.

Research related to Sustainability Urban Living

As our world marches unabatedly towards intensive urbanization, mega cities invariably are created with increasing tension and conflict towards resource and space utilization. As a highly urbanized city state, Singapore is faced with an increasing challenge to maximize our limited land and space resources and moving forward, equitable distribution and intelligent exploitation of our finite resources are clear prerequisites toward long-term sustainability, productivity and livability. To overcome the stress that accompanies rapid post-modern urbanization and limited land resources, carefully planned and executed research to provide relevant solutions are necessary, and in this connection, the School of Civil and Environmental Engineering (CEE) at NTU has embarked on numerous publicly funded research projects, which endeavor to provide state-of-the-art solutions to overcome such pressure and challenges imposed by urbanization. Two of these projects have been selected to be showcased after the Tan Swan Beng Public Lecture, namely “Improving Productivity through Enhanced Process of Preparing Precast Shop Drawings using BIM” and “Life Safety and Structural Fire Safety of Mega Underground Caverns in Singapore”. The first project deals with improving construction productivity and sustainability through BIM and the second project deals with creating more space and calls for a more holistic underground development with a performance based fire design approach which can identify appropriate fire hazards, establish relevant fire scenarios and trial design concepts.
Programme

0900 Hrs Registration

0915 Hrs Welcome by Prof. Wang Rong, Chair, School of CEE, NTU

0930 Hrs Tan Swan Beng Public Lecture on Design and Technology Innovations for Greater Sustainability and Better Living
Dr Cheong Koon Hean, Tan Swan Beng Endowed Professor, NTU

1030 Hrs Morning Refreshment Break

1100 Hrs Presentation 1 on Life Safety and Structural Fire Safety of Mega Underground Caverns in Singapore
Prof. Tan Kang-Hai, Director of Protective and Research Technology Centre (PTRC), School of CEE, NTU

1130 Hrs Presentation 2 on Improving Productivity through Enhanced Process of Preparing Precast Shop Drawings using BIM
Assoc Prof. Robert Tiong Lee-Kong, School of CEE, NTU

1200 Hrs Networking Lunch

1300 Hrs Adjournment for the Day

Online Registration:
https://wis.ntu.edu.sg/pls/webexe/REGISTER_NTU REGISTER?EVENT_ID=OA14081210544430

For any enquiries, please contact Ms Lu Ping at 6790-4915 or Email: luping@ntu.edu.sg

Accreditation
- PDU: 3 Points
- STU: 2 Points

An international buffet networking lunch will be provided after the presentations.