



ABC WATERS – CLIMATE RESILIENT & LIVEABLE CITIES

PUB and The Institution of Engineers, Singapore will be jointly organising the Active, Beautiful, Clean Waters (ABC Waters) Seminar 2022 on 20 Apr, 9.30am to 12.30pm. This year, the seminar will be held at the Sands Expo & Convention Centre, Marina Bay Sands.

The seminar which is themed “ABC Waters – Climate Resilient & Liveable Cities” will bring together a panel of subject-matter experts who will share topics on blue-green infrastructure as well as sustainable stormwater management strategies to create climate resilient and liveable cities. Speakers include Professor Cheong Koon Hean, Mr Johan Verlinde, Mr Paul Nettleton and Ms Melissa Yip. There will be a Question & Answer segment moderated by Mr Damian Tang at the end of the speakers’ presentations.

REGISTER HERE



Keynote Speaker

Professor Cheong Koon Hean
Chairman, Centre for Liveable Cities (MND)
Chairman, Lee Kuan Yew Centre for Innovative Cities (SUTD)



Ms Melissa Yip
Landscape Architect,
AECOM Singapore



Mr Paul Nettleton
Design Engineer,
Ramboll Studio Dreiseitl



Mr Johan Verlinde
Programme Director,
Rotterdam Climate Adaptation
Plan at the City of Rotterdam,
The Netherlands



Moderator
Mr Damian Tang
Senior Director, Design,
NParks

Fees:

S\$ 192.60 (IES Members)

S\$ 246.10 (Non-members)

(Inclusive 7% GST)

CPD Points **(all to be confirmed)**

PDU for PEs and CEngs / ABC WP /
ABC-SILA / QCEP / BOA-SIA

20 April 2022, Wednesday

9.30am to 12.30pm

Sands Expo & Convention Center,
Marina Bay Sands,
10 Bayfront Avenue, Singapore 018956
Seminar Room: Room 11, Level 3

ABOUT KEYNOTE SPEAKER

MAKING A SPLASH WITH A GREEN-BLUE CITY by Professor Cheong Koon Hean

Singapore as a small island city state is highly land and resource constrained and is one of the densest cities in the world. To mitigate the high density, the notion of 'liveability' is not a 'nice to have' but a 'must have'.

In addition, climate change threats that result in rising sea levels, extreme weather events and increasing temperatures become existential issues for us. This requires us to seek innovative responses to address and mitigate these challenges. The planning and development of a 'Green-Blue City' is a major thrust that we have been pursuing. The key is how to do this in an integrated and effective manner. Prof Cheong shares the lessons learnt from Singapore's experience.

Prof Cheong Koon Hean is currently Chairman of the Centre for Liveable Cities (Ministry of National Development) as well as a Practice Professor and Chairman of the Lee Kuan Yew Centre for Innovative Cities (Singapore University of Technology and Design). She was formerly the CEO of the Housing and Development Board from 2010 to 2020, overseeing some 1 million public housing flats and introduced a new generation of well designed, community centric, sustainable and smart public housing. Prof Cheong was also CEO of Urban Redevelopment Authority from 2004 to 2010 and concurrently the Deputy Secretary of the Ministry of National Development from 2001 to 2016, with extensive experience in land use planning, conservation of built heritage, the real estate market, public housing, governance and policy. She played a key role in major urban transformations such as Singapore's new city extension Marina Bay and the Sino-Singapore Tianjin Eco City.

She has served on numerous advisory panels including the World Economic Forum Council and is currently on the international advisory panels on Asia Sustainable Infrastructure and Urban Solutions and Sustainability. She is a board trustee of the National University of Singapore, former Deputy President and current Council member of the International Federation for Housing & Planning, Chairman of the Lee Kuan Yew World City Prize's Nominating Committee, Senior Advisor on Public Sector Sustainability (MSE), a Fellow(Life) and Honorary Fellow of the Singapore Institute of Architects and Institute of Planners respectively.

Prof Cheong has been conferred numerous awards, notably the Meritorious Service Medal for outstanding public service and is the first Asian to receive both the 2016 Urban Land Institute's Prize for Urban Visionaries and the Lynn S Beedle Lifetime Achievement Award by the Council for Tall Buildings and Urban Habitat.

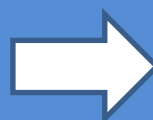
ABOUT MODERATOR

Mr Damian Tang is the Senior Director of Design at National Parks Board.

He oversees the design of parks and public spaces; leads greenery initiatives and implement biophilia strategies in urban spaces across Singapore. Damian works with different public agencies and organisations in inter-agency master planning and advises on township greenery planning and design, including design advisory for climate, coastal and ecological resilience for the city.

He has more than twenty years of working experience in the field of architecture, landscape architecture and interdisciplinary practices. He was seconded to PUB in 2006 and supported the development of ABC Waters Master Plan across Singapore.

CONTINUE FOR MORE INFORMATION ON SPEAKERS



WATERSCAPES AND PEOPLE

by Ms Melissa Yip

People have always longed to connect with nature. As global trends and climate change change, it is essential to create landscapes that go beyond the superficial and integrate more complex themes such as Biophilia, City in Nature, and ecological services.

Using water as a starting point, we will explore how some of these ideas can be adopted in dense urban Singapore through using ABC Waters Design in the public realm. In this presentation, we will discuss various case studies and considerations for integrating blue-green infrastructure within existing communities and built environments

With a background in both architecture and landscape architecture, Melissa has over 17 years in engaging communities and integrating urban hydrology, sustainability and landscape architecture in urban spaces. Her project experience ranges from public realm urban-renewal projects to urban commercial and residential landscape design, many of which have received public acclaim internationally.

A BLUE, GREEN AND GREY JOURNEY THROUGH ASIA INSPIRED BY NATURE

by Mr Paul Nettleton

Come for a journey to a “Blue” river in China, a “Green” park in Vietnam, and a “Grey” city in Indonesia to explore how Blue-Green Infrastructure (BGI) is being designed in different contexts to reduce disaster risk, improve water quality and build resilience to climate change. There are numerous examples of successful implementation of BGI in Singapore through the ABC Waters programme.

However, how can the ABC Waters principles also be mainstreamed in the wider Asia region? There will be case studies explored from Ramboll projects will provide insight into the water issues experienced in different parts of Asia, challenges of implementing BGI in various terrains, and the way that nature inspires ideas that can make a difference.

Paul Nettleton is a water engineer from Ramboll who has a passion for integrating stormwater management infrastructure with the natural environment to solve the various issues that climate change presents us with in managing our water resources. He has experience designing ABC Waters features in several projects in Singapore, and is also working on similar Blue-Green Infrastructure projects in Vietnam, China, Indonesia, and India.

He has a strong interest in the benefits that nature brings to society and is inspired by his experiences diving and hiking in several countries in Asia to engineer solutions that preserve the natural environment and bring people and nature closer together.

ROTTERDAM WEATHERWISE - THE ROAD TOWARDS A CLIMATE PROOF CITY

by Mr John Verlinde

As a city in the Dutch delta which lies 85% below sea level, Rotterdam faces the effects of climate change like no other. Therefore, it is crucial to integrate climate adaptation in all aspects of the city. The public spaces, new developments and existing buildings all need to be made to store water, reduce temperature and be attractive.

In this presentation, Rotterdam shows how climate adaptation is integrated in urban planning, taking the negative effects of climate change into account and how this is done in close collaboration with the private sector and the citizens.

Johan Verlinde works for the City of Rotterdam as the program director Urban Adaptation and leads the Rotterdam Climate Adaptation Plan “Rotterdam Weatherwise.” The goal of this plan is to take the next step in preparing the city for severe climate hazards like heavy rainfall, flooding, heat and drought.

This is done in close collaboration with citizens, private sector, social housing corporations, water boards and more. Besides climate adaptive measures in the public space, where space is scarce, climate proofing the private space will become more and more important. He also works with various different international cooperation like C40, to share and gain knowledge on climate adaptation. He was a Fellow of the PUB Singapore Water Academy.

HIGHLIGHTS

TIME	PROGRAMME
8.45am	Registration
9.30am – 9.40am	OPENING ADDRESS BY GUEST-OF-HONOUR <i>Dr Amy Khor,</i> <i>Senior Minister of State for Sustainability and the Environment</i>
9.40am – 10.00am	PRESENTATION OF ABC WATERS CERTIFICATION <ul style="list-style-type: none">• ABC Waters Certified (Gold) projects• ABC Waters Certified projects
10.00am – 10.25am	MAKING A SPLASH WITH A GREEN-BLUE CITY <i>Professor Cheong Koon Hean (Keynote Speaker)</i> <i>Chairman of the Centre for Liveable Cities (Ministry of National Development)</i> <i>Chairman of the Lee Kuan Yew Centre for Innovative Cities (Singapore University of Technology and Design)</i>
10.25am – 10.45am	Tea Break
10.45am – 11.10am	WATERSCAPES AND PEOPLE <i>Ms Melissa Yip</i> <i>Landscape Architect, AECOM Singapore</i>
11.10am – 11.35am	A BLUE, GREEN AND GREY JOURNEY THROUGH ASIA INSPIRED BY NATURE <i>Mr Paul Nettleton</i> <i>Design Engineer, Ramboll Studio Dreiseitl</i>
11.35am – 12.00pm	ROTTERDAM WEATHERWISE – THE ROAD TOWARDS A CLIMATE PROOF CITY <i>Mr Johan Verlinde</i> <i>Programme Director, Rotterdam Climate Adaptation Plan at the City of Rotterdam, The Netherlands</i>
12.00pm – 12.30pm	PANEL DISCUSSION <i>Moderator: Mr Damian Tang</i> <i>Senior Director, Design, NParks</i>
12.30pm	End of Seminar

SAFE MANAGEMENT MEASURES FOR MICE EVENTS

- Participants are required to be fully vaccinated in order to attend the seminar.
- Participants are required to show proof of safe entry upon registration.
- Participants are required to submit a health declaration one day and/or entering the seminar room.