

09 SEPTEMBER 2023 (Saturday)

Conference Hall 3 Kuala Lumpur Convention Centre 9.00 a.m. - 5.30 p.m.

"SMART & SUSTAINABILITY CITIES ENGINEERING SYMPOSIUM (SSCES 2023)"

- Advancing the Future of Smart and Inclusive Developments -



GET READY FOR ONE OF THIS YEAR'S AWAITED URBAN SYMPOSIUM IN TOWN Inspire and Be Inspired at this year Urban Symposium with Special & Prominent Speakers

In this symposium, we will highlight the urban development issues, challenges, and future trends with focus on smart & sustainable cities with local and international speakers from different fields. Smart City concept is the future of living, with the A-Zs of the latest technological advancements in city development from Artificial Intelligence to Zoning. This is integrated with the Sustainable city concept to ensure the benefits for all the inhabitants in terms of socio economics as well as the environment.

Who Should Attend?

Our Target Audience: The symposium is expected to attract attendees from various backgrounds including Town Planners, Data Analysts, Civil Engineers, Electrical & Electronic Engineers, Mechanical Engineers and Academicians

Organised by
Urban Engineering Development Special Interest Group (UEDSIG)
The Institution of Engineers, Malaysia

Registration Closing Date 30 August 2023

BEM Approved CPD Hours: 6.0 CPD Ref: IEM23/HQ/347/S(h)





6 - 9 SEPT 2023 KL CONVENTION CENTRE, MALAYSIA FOR REGISTRATION & INQUIRIES, Please contact the Event Secretariat at ssces2023@iem.org.my or shahrul@iem.org.my

Message from Organising Chairman – SSCES2023 Ir. Azhar Azmi



Dear Ladies and Gentlemen,

It is with great pleasure that I invite you to attend the "Smart & Sustainable Cities Engineering Symposium (SSCES2023)", organized by the Urban Engineering Development Special Interest Group of The Institution of Engineers, Malaysia (IEM-UEDSIG) a with the Main Theme of 'Advancing the Future of Smart and Inclusive Developments'.

We will highlight the urban development issues, challenges, and future trends with focus on smart & sustainable cities with speakers from

different fields.

The symposium is expected to attract attendees from various backgrounds including town planners, data analysts, civil engineers, electrical & electronic engineers, mechanical engineers, and academicians. The invited speakers include from government agencies, developers, technology providers, and academic experts on the field. The participants are expected to gain up to date knowledge and valuable networking in the diverse field of Smart and Sustainable Cities, which will become the norm in everyday life in the near future.

I look forward to welcoming all of you at SSCES 2023.

With my best and warm regards,

Ir. Azhar Azmi Organizing Chairman Smart & Sustainable Cities Engineering Symposium (SSCES 2023) & Chairman of Urban Development Engineering Special Interest Group (UEDSIG) (2022/2023)

SYNOPSIS

The "Smart & Sustainable Cities Engineering Symposium (SSCES2023)" integrates 3 aspects namely, Smart, Sustainable and Engineering. Smart City concept is the future of living, with the latest technological advancements in city developments. With the advent of Smart technologies, which includes automations and artificial intelligence, it is imperative that these be implemented on a city scale. The symposium will also include the sustainable city concept in line with UN Sustainable Development Goals. This is to ensure the benefits for all the inhabitants in terms of socio economics as well as the environment. Engineering components are crucial, because there is a need to be focused on the application to make these aspirations achievable and its vision a reality.



Keynote Speaker: Ir. HABIBIE RAZAK, Country Director Surbana Jurong Group - SMEC Indonesia

Habibie Razak is Indonesia Country Director of Surbana Jurong Group - SMEC Indonesia based in Jakarta. Razak is a senior civil engineer and is licensed as a professional engineer in Indonesia and ASEAN, He has worked in the role of project management and project engineering for over 20 years in various sectors such as transport, resource, and energy industries, including nickel and coal mining, power plants and renewable energy, coal gasification, gas/LNG/LPG and biodiesel plant development. Apart from his daily professional activities, he has also been assigned as executive director of the Institution of Engineers Indonesia (PII) managing engineering membership and various technical events such as seminars and conferences in various sectors in Indonesia.

TITLE:
The Challenges of Masdar City to Become the World's First Carbon-Neutral City

SYNOPSIS:

The development of smart and sustainable cities globally has been focusing to decarbonization or carbon footprint reduction program such as green building design, energy generation transition, circular economy (zero waste) and the reduction of fossil fuels.

Masdar City in Abu Dhabi is case study where the masterplan to be a pedestrian focused community with a rich network of public and personal transportation options will ensure it is easy to move across the city in comfort and ease,

The city without fossil fuel vehicles and the mobility by walking, electric vehicles, cycling, Personal Rapid Transit (PRT) system and LRT which will be the modes of transportation within Masdar City. The challenges faced by Masdar to realize the plan will be discussed further in this presentation.

Keyword: carbon neutral, smart and sustainable city, decarbonization, masterplan, pedestrian focused community

Speaker 1 : Ts Dr RASLAN AHMAD, Senior Vice President MIGHT

Ts Dr Raslan Ahmad is a Senior Vice President of the Malaysian Industry-Government Group for High Technology (MIGHT). Raslan led the MIGHT International team to provide a secretariat ship for the Global Science Innovation Advisory Council (GSIAC) with the New York Academy of Sciences from 2012-2017. He is the Chairman of the National Technical Committee on Circular Economy, Member of UTP Research Advisory Council (RAC) and the Malaysia Smart Cities Alliance Association (MSCA).



TITLE:

Smart partnership in Building Resilience and Reshaping Smart and Sustainable Cities.

SYNOPSIS

The goal of the Partnership for Smart Cities and Communities is to develop novel approaches to the pressing problems of urban sustainability, equity, and health. High energy consumption, greenhouse gas emissions, poor air quality, and traffic congestion are some of the issues that need to be addressed to make progress towards the climate action targets. The smart city concept relies heavily on collaboration between public and commercial sectors in the development and funding of programmes and services. In fact, public-private partnerships (PPPs) are widely acknowledged as a valuable instrument for boosting service quality and, more importantly, ensuring the long-term financial viability of providing those services. Co-defining, co-producing, and most importantly, co-financing innovative projects is made possible when enterprises and private capital are brought into the mix. By pooling its resources, the Partnership hopes to remove obstacles to the transition to smart cities, co-fund demonstration projects, and facilitate the coordination of ongoing local programmes and projects.



Speaker 2:
Dr XIAOHUA CHEN, Veolia Water (Malaysia) Sdn Bhd

Dr Xiaohua Chen is a recognized expert on advanced water, wastewater and sludge treatment, Dr. CHEN is currently Municipal Process Director APAC with 30 years seniority. He graduated from civil engineering, Tianjin University in 1984, received in 1986 master degree in Environmental Science, and PHD in hydrology in 1989 from University Paris. Having worked within Veolia' HQs for 10 years in France, he was appointed Engineering Director for Asia Municipal market in Beijing office since 2003 where has successful directed a number of projects with Veolia's advanced technologies from compact water solutions (high speed clarifiers, BAF, etc.) to sludge treatment (digestion/co-generation & incineration, etc.) which are very suitable for South East Asia Market.

TITLE:

Smarter Storm Water Management With Digital Optimization of Existing Sewage Treatment Plant And Retention Basins.

SYNOPSIS:

This presentation demonstrates how using an integrated Plant/Network systems approach, can improve the overall performance of the entire sewage system by combining forecasts of the upstream urban drainage system with information from the wastewater treatment plant and provide insights on this approach implemented with the municipality of Kolding's (Denmark), which manages the treatment of 15 million m3 of wastewater per year. The aim is to maximize the use of existing BlueKolding facilities and at the same time guarantee an optimum and compliant operation under all conditions.

Speaker 3: Mr. DEREK FOONG, Head of Technology and Sustainable Applications Development, DANFOSS

Mr. Derek Foong joined Danfoss in 2011 as a Global Technical and Sales Manager who developed energy efficient applications for chilled water plants and HVAC systems. Over 18 years in Energy Efficiency and Control System experience. He is actively involved in analyzing cooling system behaviors using data analytics to identify the root causes and implementing the key solutions to improve system performance.



TITLE:

Smart Cities and Buildings of Future

SYNOPSIS:

In the recent years, Danfoss has helped the cities to be more sustainable by deploying smart and efficient key components in district energy network and buildings. The transformation has been beneficial in reducing the carbon emissions significantly and the good news is we have results that can be shared during this convention.



Speaker 4 :
Ir. Mohd Razif bin Abd Halim, Managing Director, TNBX Sdn Bhd

Ir. Mohd Razif Abd Halim, *MIEM*, *P.Eng* is the Managing Director of TNBX Sdn. Bhd., a wholly owned subsidiary of Tenaga Nasional Berhad. He holds Bachelors' Degree in Mechanical Engineering and Masters' Degree in Business Administration from Tenaga Nasional University. Razif is a registered professional engineer with Board of Engineers Malaysia and a registered member of Institute of Engineers Malaysia. He has served Tenaga Nasional for 21 years in various divisions and has vast experience in power plant projects, power and water desalination plant operation and maintenance, green field project biddings, O&M contract biddings and business developments in Malaysia, South East Asia, South Asia, Central Asia and GCC countries. Has worked as an expatriate in Saudi Arabia for 4 years

TITLE: Why ESG and Energy Transition is important for smart city

SYNOPSIS:

TNBX Sdn. Bhd. is a wholly owned subsidiary of Tenaga Nasional Berhad incorporated in 2017. TNBX offers smart and innovative solutions in renewable energy and energy efficiency for homes and businesses. TNBX has been providing added values to customers to meet their ESG and net-zero targets. Various solutions has been developed and offered to customers such as the flagship Supply Agreement Renewable Energy (SARE), a solution that enables customers to enjoy solar rooftop benefits without upfront cost, Malaysia Renewable Energy Certificate (mREC), a solution that enables customer to obtain green energy without solar rooftop installation, EV Charging platform and solar insurance (Suriashield). Focusing on platform solution, TNBX is currently exploring new technology that supports sustainable development goals and aspire to be the preferred green solution partner regionally.

Speaker 5 : Ts. Dr. FOO CHEE HUNG, Metro Kajang

Ts. Dr. Foo Chee Hung is a Professional Technologist registered under the Malaysian Board of Technologists. He is currently the manager of Product Research & Development at MKH Berhad. Dr Foo is also a member of the Institution of Engineers Malaysia (IEM) and REHDA Selangor Planning Policies and Standards Sub-committee; a research committee with REHDA Institute (RI), a GreenRE manager, a Certified Sustainable INFRASTAR facilitator & a Certified MyCREST Qualified Professional and Assessor.



TITLE:

Understanding & Rethinking Transit-Oriented Development (TOD) in a Sustainable and Smart City

SYNOPSIS:

TOD has become a predominant urban planning model. It is said to have the potential to address problems facing today's urban communities. However, concerns are raised about the gentrification-displacement and affordability paradox. It is thus necessary to reconsider:

- (i) Is TOD the solution for housing affordability;
- (ii) Can TOD tackle traffic woes? and

Are all transit stations effective TOD performers?



Speaker 6 : EUR ING Ir. Dr. LAM WEI HAUR

EUR ING Ir. Dr. Lam Wei Haur is an IEM Council Member 2013/2014, 2014/2015, 2015/2016, fellow of Engineer Ireland, professional engineer ASCE. He was a Professor in UTAR, associate professor University of Malaya (UM) with bachelor's and master's degrees from the Universiti Teknologi Malaysia (UTM), and Ph.D from the Queen's University Belfast (QUB).

His research interests are in marine renewable energy and sustainable development using smart technology. A prolific writer, he has published 3 theses, 5 books, 74 journal papers, and 14 conference papers. He has research experiences at the University of Oxford, the University of Plymouth, UK, Tianjin University, and the Dalian University of Technology, PR China.

TITLE: Making Kuala Lumpur a Sustainable Conscious Community Living: Smart Property Management

SYNOPSIS:

This presentation intends to inspire sustainable conscious community living in Kuala Lumpur with the help of the smart property management system. The implementation of cloud computing, smartphones, big data, and AI changes the old communication methods for management-owner, owner-government, management-government, and owner-visitor. The audience will learn how smart city policy influences the Strata Management Act (SMA) 2013 in the condominiums.

Speaker 7: Dr. LIM SENG BOON, Sr Lecturer Universiti Teknologi MARA

Dr Lim Seng Boon is a senior lecturer from Universiti Teknologi MARA, Perak Branch. He holds a PhD in Smart City Development. Currently, he is involved in developing the national sustainable smart cities and communities standards under the official appointments from Standards Malaysia and PlanMalaysia. He has published two books related to smart city development, and his other publication can be found widely in WoS/Scopus-indexed journals, such as Sustainability, Smart Cities, Planning Malaysia, Geografia, etc.



TITLE:

Constructing Citizen-Centric Smart Cities: Rethinking Our Roles in Achieving SDGs

SYNOPSIS:

Apart from the mainstream Techno-Centric Smart Cities, the Citizen-Centric Smart City (CCSC) model is leading in providing an innovative perspective of viewing smart city development from both participatory governance and citizens' responsibilities. Instead of fulfilling citizens' needs, this innovative viewpoint contends that citizens should co-produce, participate, and contribute to constructing a sustainable smart city alongside the government and corporations, thus achieving SDGs.

SYMPOSIUM PROGRAM

(This Tentative Program might be subject to minor modifications without further notice)

TIME	PROGRAM, SPEAKERs & TOPICs				
8.30am – 9.00am :	Registration and Welcome Coffee & Tea				
Morning Session 1 Cha	ir :				
9.00am – 9.05am :	Welcome Address by Organising Chairman SSCES 2023 & Chairman of UEDSIG, Ir. Azhar Azmi				
9.05am – 9.10am :	Welcome Speech by President of IEM / Representative				
9.10am – 9.20am :	Opening Remark by Guest of Honour YBrs. TPr Dr. Alias bin Rameli, Director General of PLAN Malaysia				
9.20am – 9.25am :	Token of Appreciation by IEM to Guest of Honour				
9.25am – 10.00am : (35 minutes)	Keynote Address Speaker: Ir. Habibie Razak, Country Director, Surbana Jurong Group - SMEC Indonesia Title: The Challenges of Masdar City to Become the World's First Carbon-Neutral City				
10.00am – 10.15am :	Token of Appreciation to Keynote Speaker, Speakers', and Sponsors by the Guest of Honour				
10.15am – 10.30am :	Morning Coffee Tea Break				
Morning Session 2 Cha	Morning Session 2 Chair :				
10.30am – 11.00am : (30 minutes)	Speaker 1 :Ts. Dr. Raslan Ahmad, Senior Vice President MIGHT Title : Smart Partnership in Building Resilience and Reshaping Smart and Sustainable Cities				
11.00am – 11.30am : (30 minutes)	Speaker 2: Dr Xiaohua Chen, Veolia Water (Malaysia) Sdn Bhd Title: Smarter Storm Water Management With Digital Optimization of Existing Sewage Treatment Plant And Retention Basins				
11.30am – 12.00pm : (30 minutes)	Speaker 3: Mr. Derek Foong, Head of Technology and Sustainable Applications Development, DANFOSS Title: Smart Cities and Buildings of Future				
12.00pm – 12.40pm : (30 - 40 minutes)	Panel Discussion 1: (with speaker 1 – 3) Moderator – Ir. Azhar Azmi Title: Technologies and Research into Smart City				
12.40pm – 2.00pm :	Lunch Break				

SYMPOSIUM PROGRAM

(This Tentative Program might be subject to minor modifications without further notice)

TIME	PROGRAM, SPEAKERs & TOPICs				
Afternoon Session 1 Chair :					
2.00pm – 2.30pm : (30 minutes)	Speaker 4: Mohd Razif bin Abd Halim, Managing Director, TNBX Sdn Bhd Title: Why ESG and Energy Transition is Important for Smart City				
2.30pm – 3.00pm : (30 minutes)	Speaker 5: Ts. Dr. Foo Chee Hung, Metro Kajang Title: Understanding & Rethinking Transit-Oriented Development (TOD) in a Sustainable and Smart City.				
3.00pm – 3.30pm : (30 minutes)	Speaker 6 : EUR ING Ir. Dr. Lam Wei Haur Title : Making Kuala Lumpur a Sustainable Conscious Community Living: Smart Property Management				
3.30pm – 3.45pm :	Afternoon Coffee Tea Break				
Afternoon Session 2 Ch	Afternoon Session 2 Chair :				
3.45pm – 4.15pm : (30 minutes)	Speaker 7: Prof. Lim Seng Boon, UITM Title: Constructing Citizen-Centric Smart Cities: Rethinking Our Roles in Achieving SDGs				
4.15 pm – 5.15pm : (60 minutes)	Panel Discussion 2: (with speaker 4 – 7) Moderator – EUR ING Ir. Dr. Lam Wei Haur Title: How Government Can Facilitate and Assist Developers				
5.15pm – 5.30pm :	Token of Appreciation for Afternoon Speakers and Sponsors (for speaker & sponsor who are unable to receive token at the morning session)				
5.30pm – 6.00pm :	Closing Remarks by Ir. Azhar Azmi, Organising Chairman SSCES 2023 & Chairman of UEDSIG Session 2022/2023				

SMART & SUSTAINABILITY CITIES ENGINEERING SYMPOSIUM 09 SEPTEMBER 2023

Email: ssces2023@iem.org.my OR shahrul@iem.org.my / suriani@iem.org.my

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- FULL PAYMENT must be settled before commencement of the course, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participants fail to attend the course, the fee is to be settled in full. If the participant failed to attend the course, the fee paid is non refundable. Registration fee includes lecture notes, refreshment.
- The Organizing Committee reserves the right to cancel, alter, or change the program due to unforeseen circumstances. Every effort will be made to inform the registered participants of any changes. In view of the limited places available, intending participants are advised to send their registrations as early as possible to avoid disappointment.

<u>Cancellation Policy</u>
No cancellation will be accepted prior to the date of the event. However, replacement or substitute may be made at any time with 7 days prior notification and substitute will be charged according to membership status.

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6 - 9 SEPT 2023 KL CONVENTION CENTRE, MALAYSIA

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Event Secretariat:

Ms Shahrul Sulaiman (shahrul@iem.org.my)
Event Secretariat Email: ssces2023@iem.org.my

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Number of promotional exhibition booth which will be allocated (3m x 3m)

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