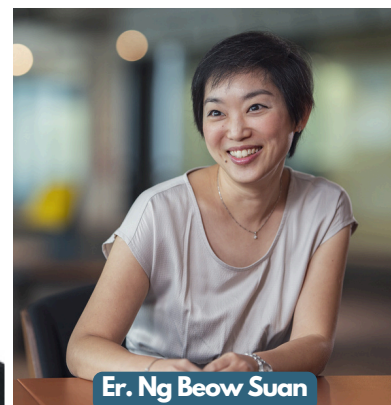


# WOMEN ENGINEERS PANEL DISCUSSION

ENGINEERING THE NEW FUTURE: UNLOCKING OPPORTUNITIES  
THROUGH EMERGING TECHNOLOGIES



Er. Sharron Ng



Er. Ng Beow Suan



Ms Jaime Lim



Er. Dr Tan Pui Lai

Join us for an inspiring session featuring an engaging talk-show sharing segment followed by an interactive panel discussion! Guided by this year's theme, "Engineering the New Future: Unlocking Opportunities through Emerging Technologies," industry leaders will explore how cutting-edge advancements are transforming critical sectors - from green energy and smart environments to digital transformation and healthcare enablers.

Discover the vast, diverse career pathways open to the next generation of innovators and see firsthand how a future in engineering allows you to unlock new opportunities and shape the world tomorrow.



**Thursday, 2.00pm - 3.30pm**



**Room TR48, IES Academy  
Devan Nair Institute for Employment  
and Employability (e2i)  
80 Jurong East Street 21, #04-10,  
Singapore 609607**

*Aug*  
**13**  
2026



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# WOMEN ENGINEERS PANEL DISCUSSION

ENGINEERING THE NEW FUTURE: UNLOCKING OPPORTUNITIES  
THROUGH EMERGING TECHNOLOGIES

THURSDAY, 13 AUGUST 2026

2.00PM - 3.30PM

Room TR48, IES Academy  
Devan Nair Institute for Employment and Employability (e2i)  
80 Jurong East Street 21, #04-10, Singapore 609607

| Time   | Activity                                                                                                                                                                                                                                                                                                                           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.00PM | <b>Remote Site Supervision in Alignment with BCA's Guidelines</b><br>Presenter: Er. Sharron Ng,<br>Director, ECAS Consultants Pte Ltd<br>Council Member, The Institution of Engineers, Singapore (IES)<br>Chair, Women in Engineering, Science & Research (WiSER)<br>Chair, Civil & Structural (C&S) Division, Technical Committee |
| 2.15PM | <b>Integration of Sensors in SMART Buildings</b><br>Presenter: Er. Ng Beow Suan,<br>Deputy Chair, Women in Engineering, Science & Research (WiSER)<br>Council Member, The Institution of Engineers, Singapore (IES)<br>Chair, Mechanical & Electrical (M&E) Technical Committee                                                    |
| 2.25PM | <b>Robotics in Construction</b><br>Presenter: Er. Dr. Tan Pui Lai<br>Director, Geomatics and Land<br>Deputy Director, Civil and Structures, Land Transport Authority<br>Council Member, The Institution of Engineers, Singapore (IES)<br>Chair, Traffic & Transport Division under C&S Committee                                   |
| 2.35PM | <b>Role of Engineers in Today's World</b><br>Presenter: Ms Jaime Lim, Director, Major Hazards Department,<br>Ministry of Manpower<br>Council Member, The Institution of Engineers, Singapore (IES)<br>Chair, Health & Safety (H&S) Engineering Technical Committee                                                                 |
| 2.50PM | <b>Q&amp;A Session</b><br><b>Theme: Engineering the New Future: Unlocking Opportunities through Emerging Technologies</b><br><br>Panellists: Er. Sharron Ng, Er. Ng Beow Suan, Er. Dr. Tan Pui Lai and Ms Jaime Lim                                                                                                                |
| 3.30PM | END OF EVENT                                                                                                                                                                                                                                                                                                                       |

# PANELISTS' PROFILES



**Er. Sharron Ng**

Director, ECAS Consultants Pte Ltd  
Council Member, The Institution of  
Engineers, Singapore (IES)  
Chair, Women in Engineering, Science  
& Research (WiSER)  
Chair, Civil & Structural (C&S) Division,  
Technical Committee

## Biography

Er. Sharron Ng is a Professional Engineer (Civil) with over 20 years of experience in the engineering and construction industry. She currently serves as Director at ECAS Consultants Pte Ltd where she leads infrastructure and building development projects with a strong focus on sustainable design and innovative engineering solutions.

As a committed Council Member of The Institution of Engineers, Singapore (IES), Er. Ng has been instrumental in shaping the strategic direction of the Institution. She currently chairs both the Women in Engineering, Science & Research (WiSER) Committee and the Civil & Structural (C&S) Division of the Technical Committee, taking on a dual leadership role that spans both technical excellence and diversity advocacy. Er. Ng is also a co-chair of the Earth Control Measures (ECM) Registry Committee whereby she oversees the renewal and new registration of Qualified Earth Control Professional (QECF) and Earth Control Measures Officer (ECMO) with several Government Agencies.

Under her stewardship, WiSER has actively championed the empowerment and advancement of women in engineering through a broad range of programmes—ranging from professional sharing sessions and networking events to mentorship and regional outreach. Notably, she represented IES at the ASEAN Women Engineers (WE-AFEO) initiatives and was invited as a guest speaker by The Institution of Engineers Indonesia (PII) to inspire young women in STEM. She was recently invited by The Institution of Engineers, Malaysia (IEM) in celebration of International Women in Engineering Day 2026 as one of the panellists, representing Singapore to speak on Engineering Intelligence: Shaping the Future Through Collaboration and Innovation.

At the same time, through the C&S Division of the Technical Committee, she curates seminars, workshops, and panel discussions to keep professionals abreast of advanced construction technologies, such as Mass Engineered Timber and sustainable structural design practices. She has also collaborated with Building and Construction Authority (BCA) to champion implementation of remote supervision in her projects by adopting technology to increase productivity and efficiency of supervisory work on site which proven to be useful during the Pandemic. Her leadership in these areas has been pivotal in bridging technical rigour with real-world application.

Beyond IES, Er. Ng represents the engineering community in numerous national taskforces and workgroups with BCA, such as the Branding for the Profession initiative, co-chair of Firm-based Site Supervision amongst others. She was also one of the young leaders under the BCA Young Leaders Programme since 2016 and is now a mentor in the same programme. Er. Ng is known for her dedication to nurturing future talent in the built environment sector.

A two-time recipient of the IES Outstanding Volunteer Award, Er. Ng is widely recognised for her passion, integrity, and influence in engineering. Her role as a moderator for National Engineers Day (NED) 2025 panel on Women Engineers underscores her belief in inclusive leadership and the importance of creating space for diverse voices in shaping the future of the profession.



# PANELISTS' PROFILES



**Er. Ng Beow Suan**

Deputy Chair, Women in Engineering,  
Science & Research (WiSER)  
Council Member, The Institution of  
Engineers, Singapore (IES)  
Chair, Mechanical & Electrical (M&E)  
Technical Committee

## Biography

Beow Suan has actively taken part in a wide variety of projects such as office buildings, hotels, commercial complexes, community services centre and several retrofitting works as well as due diligence feasibility studies. She has completed Katong Mall, 40-storeys CapitaGreen Office Tower, Frasers Tower, Mixed Development Paya Lebar Square and Eden Condominium at Draycott. She was actively involved in the M&E master planning, infrastructure planning and design development of the Mandai Development which comprises of 7 land parcels. Beow Suan has over 20 years of working experience as an Engineer in the construction industry and is a Green Mark Advanced Accredited Professional as well as a registered Green Mark Advanced Accredited Professional (Facilities Management). Upon registration as a Professional Engineer in 2012, Beow Suan continued to contribute to the industry and was conferred the ACES Young Consulting Engineer of the Year 2018. Beow Suan is also a registered ASEAN Chartered Professional Engineer in 2018. In addition, she also attained her Registered Inspector (M&E) from SCDF in March 2023 and has also been elected to sit on the PEB board as a board member from January 2024.



**Er. Dr. Tan Pui Lai**

Director, Geomatics and Land  
Deputy Director, Civil and Structures, Land  
Transport Authority  
Council Member, The Institution of  
Engineers, Singapore (IES)  
Chair, Traffic & Transport Division under  
C&S Committee

## Biography

Er. Dr. Tan Pui Lai is Director of Geomatics and Land, concurrently serving as Deputy Director of Civil and Structures at the Land Transport Authority. She brings over two decades of research and industry experience in the built environment, with expertise in concrete technology and underground infrastructure. A strong advocate for environmental sustainability, she plays an active role in championing sustainability initiatives for infrastructure development at LTA. She is equally passionate about lean thinking, and has been instrumental in promoting the adoption of Lean Principles to improve efficiency across design and construction processes.



**Ms Jaime Lim**

Director, Major Hazards Department,  
Ministry of Manpower  
Council Member, The Institution of  
Engineers, Singapore (IES)  
Chair, Health & Safety (H&S) Engineering  
Technical Committee

## Biography

Jaime is a Director at Singapore's Ministry of Manpower, where she works on workplace safety and health regulatory issues. She is also a Council Member of the Institution of Engineers, Singapore. With a background in environmental engineering and workplace safety and health, Jaime is passionate about advancing practical and proportionate approaches to improve safety outcomes and support sustainable industry development.