



The Institution of Engineers, Singapore

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Media Release

ASEAN engineers celebrate outstanding engineering achievements and commit action in various initiatives at CAFEO 36

Minister of State Zaqy Mohamad confers the IES Lifetime Engineering Achievement Award 2018 on Er. Chang Meng Teng

IES awards 10 engineers in Transportation with the Chartered Engineer certification

The Institution of Engineers, Singapore (IES) celebrated the outstanding achievements of engineers at its 52nd Annual Dinner jointly held with the closing banquet of the 36th Conference of the ASEAN Federation of Engineering Organisations (CAFEO 36) at Resorts World Convention Centre. Mr Zaqy Mohamad, Minister of State, Ministry of National Development & Ministry of Manpower graced the event as guest-of-honour attended by close to 1,700 conference delegates, IES members and industry guests.

The event was preceded by the signing of the Singapore Declaration by member organisations of the ASEAN Federation of Engineering Organisations (AFEO) to show commitment in promoting railway and transportation connectivity, urban sustainable solutions, the Vision Zero movement to realise injury-free workplaces, sharing of project knowledge, start-up incubator development and excellence in engineering education.

Inauguration of First Batch of Assessors in Transportation Engineering

At the dinner, in recognition of their professional competence, IES presented Chartered Engineer certification to 10 outstanding local transportation engineers who have made significant contributions in their practice. These Chartered Engineers will also form part



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of the Assessment Panel to certify more engineers in accordance with IES Competency Standard & Assessment Statement.

Launched in 2013, the Chartered Engineer (Singapore) Registration aims at raising the status and profile of the engineering profession. It recognises qualified engineers across all sectors, particularly in fields that do not require registration as Professional Engineers.

IES also hopes that its efforts in enhancing professional recognition of local engineers will contribute to AFEO's goals of facilitating mobility engineers within ASEAN, to enable them to practice out of their home countries.

Lifetime Engineering Achievement Award 2018 Winner – Er. Chang Meng Teng

In recognition of his outstanding leadership and the profound impact of his contributions to the engineering industry and community, Er. Chang Meng Teng became the sixth winner of the IES Lifetime Engineering Achievement Award – the topmost honours accorded to engineers in Singapore.

An electrical engineer by training, Er. Chang devoted his career to Singapore's infrastructural development across the public and private built environment sectors. Apart from playing key roles in the development and expansion of power distribution networks in Singapore when he was with the Public Utilities Board, Er Chang also spent 20 years as Managing Director of Squire Mech Pte Ltd, completing residential, commercial, institutional and industrial developments with engineering excellence.

Er. Chang directed many successful high-profile projects during his career including the intelligent Republic Plaza – a multiple award-winning project with an advanced communications network distribution facility and integrated building management systems.

“I am deeply honoured to be receiving the Lifetime Engineering Achievement Award. I would like to thank all my fellow Professional Engineers, clients and peers for their generous support throughout my career. The 21st century has brought many challenges to the world and our human race. I hope our younger generation of engineers will achieve new heights and carve out new possibilities and solutions for our future,” said Er. Chang.

“Er. Chang is an exemplary engineering leader who has made significant contributions to the built environment. IES hopes that his achievements will inspire our young engineers



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to deliver innovative solutions and contribute to the well-being of our economy as well as improving our quality of life," said Prof. Yeoh Lean Weng, IES President.

ASEAN Outstanding Engineering Achievement Awards and AFEO Honorary Awards

Other awards presented at the dinner are the ASEAN Outstanding Engineering Achievement Awards given to 18 projects and six individuals from Indonesia, Myanmar, Singapore and Thailand for making significant contributions to advancing engineering and improving quality of life amongst the ASEAN countries; and the AFEO Honorary Awards presented to 87 individuals for rendering exemplary services to the engineering profession.

On 13 November 2018, Prof Yeoh as AFEO Chairman also presented the AFEO Distinguished Honorary Patron 2018 honour to Prime Minister of Malaysia, Tun Dr Mahathir Mohamad at a separate ceremony.

IES–Yayasan MENDAKI Scholarships

Mr Muhammad Hudzaifah Bin Sulaiman from the National University of Singapore and Mr Mohamed Taufik Rahim from Temasek Polytechnic received the 2018 IES–Yayasan MENDAKI Scholarships for achieving excellent academic results. This annual award is given to tertiary Muslim students to encourage and support them in furthering their engineering studies or pursuing an engineering career.

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Notes to media:

i. Annexes

- Annex 1 – Citation: Er. Chang Meng Teng, IES Lifetime Engineering Achievement Award 2018 Recipient
- Annex 2 – Recipients of the ASEAN Outstanding Engineering Achievement Awards
- Annex 3 – Recipients of the AFEO Honorary Awards

ii. Chinese Glossary

<i>English Terms</i>	<i>Chinese Terms</i>
ASEAN Federation of Engineering Organisations (AFEO)	亚细安工程师组织联合会
Conference of ASEAN Federation of Engineering Organisations (CAFEO)	亚细安工程师组织联合会会议
The Institution of Engineers, Singapore (IES)	新加坡工程师学会
Prof. Yeoh Lean Weng, President, IES President	杨联文博士, 新加坡工程师学会会长
Chartered Engineers	特许工程师
IES Lifetime Engineering Achievement Award	新加坡工程师学会 终身工程成就奖
Er. Chang Meng Teng	张明圣

About The Institution of Engineers, Singapore (IES)

The Institution of Engineers, Singapore was formally established on July 1966 as the national society of engineers in Singapore. IES is the premier engineering Institution in Singapore and is often called upon by the Government to provide feedback on professional engineering matters.

IES is well represented among the faculty members of the major engineering institutions of higher learning in Singapore. Through close collaboration with the local universities and polytechnics, IES organizes courses, seminars and talks for engineers and IES members to advance the continuous development of engineers.



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The Institution maintains close links with professional organisations of engineers regionally and throughout the world. These include organisations in Australia, China, Japan, United Kingdom and the United States. The Institution also represents Singapore in the World Federation of Engineering Organisations (WFEO), ASEAN Federation of Engineering Organisations (AFEO) and the Federation of Engineering Institutions of Asia and the Pacific (FEIAP) in promoting goodwill and fellowship among all engineers in the region and internationally.

Through its Engineering Accreditation Board (EAB), IES obtained full signatory status in the Washington Accord (WA) in June 2006. The entry grants IES the authority to represent Singapore, the first country within the ASEAN region which has obtained full signatory status in the WA, to vet education systems under the WA mutual recognition framework.

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Annex 1

Citation for Er. Chang Meng Teng

IES Lifetime Engineering Achievement Award 2018 Recipient

Er. Chang Meng Teng has dedicated the past 51 years contributing to the national infrastructural development of Singapore across the public and private built environment sectors.

In the earlier years of his career when he was with the Public Utilities Board, Er. Chang made significant contributions to the development and expansion of power distribution networks in Singapore. He continued to provide consultancy services to notable projects such as the 22 kVolts power distribution network for the Changi International Airport that was subsequently successfully expanded to meet power requirements of the second passenger terminal building and aero-bridges.

As the Managing Director of Squire Mech Pte Ltd from 1979 to 1999, Er. Chang steered the company in navigating the increasingly knowledge-driven economic landscape and harnessing mechanical and electrical (M & E) engineering to complete residential, commercial, institutional and industrial developments with engineering excellence. He was the company's Executive Chairman when he retired at the age of 79 in November 2017.

Er. Chang has also made pivotal contributions to the study and design of intelligent buildings in Singapore, Japan and the United States. He has published and presented papers on electricity distribution, electrical safety, management, conservation of energy, intelligent buildings and indoor air quality at both national and international conferences.

Er. Chang has directed many successful high-profile projects in his career, the most recent being the intelligent Republic Plaza – a multiple award-winning project with an advanced communications network distribution facility and integrated building management systems. The Republic Plaza is also the first building in Singapore to be awarded the FIABCI PRIX D'EXCELLENCE Award for the Best of World Real Estate in 1997. His early projects include the design and building of electrical distribution and air conditioning and mechanical ventilation for Parkway Parade.



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Er. Chang is an advocate for continuous education of engineers in multi-disciplinary proficiency to handle projects for the future and respond to evolving demands for the M&E consulting engineering practice. His dedication to mentor and nurture young engineers into leaders has retained key talents and built long-term support for his company. He has also led the way in promoting partnerships amongst industry players to support Singapore in addressing global challenges such as climate change.

Er. Chang has also contributed his engineering expertise to several government committees, statutory boards, engineering and civic organisations. He was the President of The Institution of Engineers, Singapore (IES) from 1990 – 1992 and the Honorary M&E Advisor to the Real Estate Developers' Association of Singapore from 1990 to 2010. Currently, Er. Chang is a Board Member of the Energy Market Authority.

He has been conferred several awards and honours including the Public Service Star (Bar) in 2012, Justice of the Peace, Singapore in 1989, the Public Service Star in 1987, the Public Service Medal in 1978 and the Public Administration Medal (Silver) in 1975.

Er. Chang obtained his Bachelor of Science with Honours degree in Electrical Engineering from the University of Strathclyde, Glasgow in 1967 and the Professional Engineer (Singapore) registration in 1973.

Er. Chang is an exemplary engineering leader whose commitment to continued, reliable and flexible power supply has enabled crucial advancements in Singapore's built environment. The IES Council hereby bestows Er. Chang Meng Teng with the Lifetime Engineering Achievement Award in recognition of his outstanding leadership, the profound impact of his work on the engineering industry and community and his contributions that has brought international honours to Singapore.



Annex 2

Recipients of the ASEAN Outstanding Engineering Achievement Awards

Project Category

1. **4-in-1 Smart Utilities Plant tailored for Tropics**
National University of Singapore (NUS) & King Abdullah University of Science and Technology
2. **Low Motion Semi: A Next Generation Revolutionary Semisubmersible Project**
Keppel – NUS Corporate Laboratory (Singapore)
3. **Innovation on being Environmentally Friendly and Energy Saving Quality Products to Protect Building and infrastructures in Myanmar**
United Paints Group Co. Ltd (Myanmar)
4. **Contribution to Infrastructure Development in Myanmar by High Quality Steel Bridge Products**
J&M Steel Solutions Co Ltd (Myanmar)
5. **Waste Heat Recovery Power Plant in Myanmar**
Myanmar Than Taw Myat Co Ltd (Myanmar)
6. **Tha-Htay Hydropower Project and its Successful Excavation of Large Tunnel and Shaft in Geological Risky Region**
Department of Hydropower Implementation of Ministry of Electricity & Energy (Myanmar)
7. **Renewable Energy 35 MW Kamojang Geothermal Power Plant for being the first Geothermal Power Plant Project Led by Indonesian's Team**
PT. Rekayasa Industri, Indonesia (Indonesia)
8. **EPC 1 Banyu Urip Project being the Biggest Production Processing Facilities covering 180 BPD**
PT. Tripatra Engineers and Constructors (Indonesia)
9. **SIL 02 Electronic Interlocking Railway Signaling– an Advance Development of Electronic Interlocking based Railway Signaling to Increase Safety Factor and Passengers Capacity for Java Railway Network**
PT. Len Industri (Persero) (Indonesia)
10. **Renewable Energy Sidrap Wind Power Plant 75 MW Located at South Sulawesi as one of the biggest wind power plant in ASEAN countries**
PT. PLN (Persero) (Indonesia)
11. **Clean Coal Fire 1x660 MW Cirebon Power Plant and as Pioneer in Utilization of Clean Coal Technology in the Country**
PT. Cirebon Electric Power (Indonesia)
12. **Panoramic Toll High Way Semarang–Bawean–Salatiga – a Project Highway developed across mountain, Part of Trans Java Toll Road Project**
PT. Jasa Marga (Persero) Tbk (Indonesia)



13. **High Speed Broadband Link for East Indonesia in Enabling Wider Access of Internet Utilization through Sulawesi–Maluku–Papua Island Under Water FO Cable System**
PT. Telkom Indonesia, Tbk (Indonesia)
14. **Merah Putih Satellite Project for Providing High Speed Broad Band and Link for East Indonesia in Enabling Wider Access of Internet Utilization to the Rural Areas**
PT. Telkom Indonesia, Tbk (Indonesia)
15. **West Kalimantan–Sarawak Interconnection 275kV in 2 years and being the first interconnection and sharing resources for Green Energy between Indonesia–Malaysia**
PT PLN (Persero) (Indonesia)
16. **The Makassar Toll Road – Towards Integrated Urban Development buy Enhancing Connectivity and Mobility**
PT Margautama Nusantara (Indonesia)
17. **Pilot Project in Using of Smartgrid Integrated Control System with Wide Area GIS–Based Monitoring Capacity in Indonesia**
Agency for the Assessment and Application of Technology, Republic of Indonesia (Indonesia)
18. **Small Scale Geothermal Plant Development with Highly Local Content in Kamojang, West Java**
Agency for the Assessment and Application of Technology, Republic of Indonesia (Indonesia)

Individual Category

1. **Mr Suparat Sirisuwanangkura**
Senior Executive Advisor of Toyota Motor Thailand Co. Ltd
Promoting and supporting CSR projects and for his outstanding contribution to the automotive engineering profession in Thailand
2. **Prof. Dr. Ir. Pekik Argo Dahono**
Developing a High–Ratio DC–DC Power Converter. A Microgrid Systems in The Remote Area in Indonesia for Renewable Energy System
3. **Alden Hariyanto Putra**
Designing The Arkademy, a Digital Startup in Education Industry for Building Future Strong Technologically Generation in Indonesia
4. **Muhammad Sigit Pramudya**
Designing of The Big Box, a Digital Startup for Big Data Platform to Integrate Various Big Data Technologies and Service Providers
5. **Setyo Budi Agung and Bayu Dharmawan**
Designing Speed On Demand Facility for Internet Connection User
6. **David Gunawan and Ibrahim Zein Abdillah**
Designing PBX System, a Multi–line Facility for Fixed Phone Connection User



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Annex 3

Recipients of the AFEO Honorary Awards

Recipients of the AFEO Honorary Awards can be downloaded from this link:

<http://bit.do/IESAD52>