

SUBMISSION TO THE HKIE EXECUTIVE

REPORT OF

36<sup>th</sup> CONFERENCE OF THE ASEAN FEDERATION OF ENGINEERING  
ORGANISATION

AND

25<sup>th</sup> YOUNG ENGINEERS OF ASEAN FEDERATION OF ENGINEERING  
ORGANISATION CONFERENCE

11 – 15 NOVEMBER 2018 | SINGAPORE

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# **1. Introduction**

## **1.1. Background**

The 36<sup>th</sup> Conference of ASEAN (Association of Southeast Asian Nations) Federation of Engineering Organisation (CAFEO 36) in conjunction with the 25<sup>th</sup> Meeting of Young Engineers of ASEAN Federation of Engineering Organisation (YEAFEO 25) is the highlighted event of the ASEAN Federation of Engineering Organisation.

AFEO was commenced in 1973, from the engineering convention held between the Institution of Engineers Malaysia (IEM) and the Institution of Engineers Singapore (IES). The primary objective of the IEM/IES Engineering Convention was to promote interaction and relationship between their members in view of their common historical backgrounds and geographical similarities. IEM and IES took turns to host the convention. In 1976, while preparing for the 3<sup>rd</sup> IEM/IES Convention, it was suggested that all other ASEAN countries should be invited. In 1980, an agreement was signed for the formal establishment of the ASEAN Federation of Engineering Organisation (AFEO) on 8<sup>th</sup> August 1982. AFEO is a non-governmental body affiliated with the ASEAN Secretariat. It is an organisation of the national engineering/technological institutions of the ten ASEAN member countries including Brunei Darussalam, Cambodia, Indonesia, Laos, Malaysia, Myanmar, Philippines, Singapore, Thailand and Vietnam. Its members are the national Institutions/Organisations of engineers of the ASEAN countries.

The Conference of ASEAN Federation of Engineering Organisation (CAFEO) has been held annually at the different member institutions in a rotating order since 1982. CAFEO annually attracted more than 200 foreign and 300 local engineering professionals from various industries, fields and sectors. CAFEO 36, hosted by the Institution of Engineers Singapore, was held in Singapore in November 2018.

AFEO also looked after the interest of young engineers. In 1993, the committee of young engineers was established and, in 1994, the Bylaws of the formation of a young engineer group were approved and the definition of the Young Engineer was agreed. The group name was Young Engineers of ASEAN Federation of Engineering Organisations (YEAFEO). Its mission is to be a dynamic and progressive organisation that leads to the development of young engineers in the ASEAN region. YEAFEO represents the young engineers of the national engineering organizations under AFEO, comprising members engaged in the common professional interest of engineering. It promotes the importance of engineering on the advancement of the social, economic and industrial development of the ASEAN region; concerts in the effort to elevate and improve the quality of life of the ASEAN people's dynamic actions and productivity to increase employment opportunities and equitable distribution of wealth among the masses of the ASEAN nations; participates actively in the industrial and technological programmes in ASEAN nations; encourages exchanging and sharing engineering technology; emphasises in basic professional right, cognizant of the need to establish harmony and relationship among the members.

CAFEO 36 has set the theme “Engineering Rail Connectivity & Fostering Excellence in Engineering Education” for the conference this year and delegates discussed pertinent issues and trends that are impacting rail engineering in the region, as well the design and delivery of top-quality educational programmes for multi-disciplinary engineers and technicians. Important topics in this discussion will include latest railway technologies such as high speed rail and urban mobility; and importance for international collaboration on engineering education.

This year, four delegates namely Ir TANG Whai-tak (Chairman), Mr Ken WONG Hei Long (Committee Member), Mr Ackle SHAM Cheuk Kiu (Co-opted Member) and Mr Howard KWOK Ho Yeung (Event Coordinator) represented the Young Members Committee of the Hong Kong Institution of Engineers (HKIE-YMC) to attend the CAFEO 36 and YEAFEO 25.

## **1.2. Objectives**

The objectives of HKIE-YMC attending CAFEO 36 and YEAFEO 25 included:

- To broaden the horizons in engineering profession through sharing with young engineers from other countries;
- To enhance the career perspectives of the young members;
- To gain exposure to large scale international conference;
- To nurture the leadership and communication tactics of younger generations;
- To gain knowledge on the current practice of other countries;
- To exchange technical knowledge/ideas/culture with engineers worldwide;
- To extend the network of our young engineers with participants from other countries;
- To promote the Hong Kong Institution of Engineers (HKIE) to other countries;
- To promote the Young Members Committee (HKIE-YMC) to other countries; and
- To establish long-term partnership with young engineers from other countries

## 2. YEAFEO Meetings

Attending the meetings in YEAFEO is a great opportunity for the young engineers to exchange technological knowledge and share their views on global issues. This year, we joined the Country Report session and the 25th YEAFEO Governing Board Meeting.

### 2.1. Country Report

In this session, each institution introduced their organization and reported events organized and the year plan. With the initiative of enhancing young engineers' awareness to the global issues, a new presentation session was introduced. The delegates presented the current trend of the engineering industry in their countries. They were also encouraged to share the major engineering challenges in their countries, followed by the strategies implemented and the infrastructure built to tackle the challenges. As the countries all are located in the Southeast Asia and share common challenges such as climate change, technological advancement and population surge, the young engineers learnt from other countries' experience and apply to their own countries.



With similarities in economic structure as well as the size of territory and population, Singapore is facing similar challenges with Hong Kong. Ranking as the third most competitive economy, it is challenged by the rapid technological advancement, changing global economy and the aging society. The representatives from Singapore highlighted the importance of innovation and sustainability to the infrastructure development. Due to the limited natural water source, the Singapore government has endeavoured to develop NEWater as an alternative to water supply which supports up to 40% of Singapore's current water needs. By adopting membrane technology, the treated used water is recycled to high quality potable water. Moreover, due to the scarcity in land resources, the existing above-ground oil storage facilities in Singapore were relocated to the Jurong rock cavern located 130m beneath the Jurong Island. Completed in 2014, it was the first underground oil storage facility in Southeast Asia after eight years of construction. The relocation of oil storage facilities was able to free up 60 hectares of land for other developments.

For Hong Kong, the YMC Chairman, Ir Tak Tang introduced the theme of Session 2018/19, "Step Out • Step Up", encouraging the young engineers to step out from their comfort zone and take on new challenges. Echoing the theme of CAFEO 36, Engineering Rail Connectivity, the delegates gave a presentation on the railway development in Hong Kong. They introduced the challenges and opportunities throughout the railway development which

started from early 20th century and subsequently became the backbone of the transportation system in Hong Kong. They also discussed the financial model of the railway system by using the Kowloon Station development as an example. They concluded the presentation by sharing the areas for future railway development which included education, efficiency and community.

## 2.2. 25th YEAFEO Board Meeting

The Board Meeting is held every year for the young engineers to discuss the collaboration among the countries. As Hong Kong is not an official member of ASEAN, the delegates joined the Board Meeting as an observer. The meeting was chaired by the host country, Singapore. With the matters remained from the Mid-term meeting, the board discussed the amendment to YEAFEO regulations, setting up of database for the young members and the updating of YEAFEO newsletter. This year, the countries particularly focused on disaster preparedness and nominated the Philippines as the YEAFEO representative in the Disaster Preparedness Committee of AFEO.



## 2.3. Meeting with Prime Minister

The delegates were honoured to be invited to attend a meeting with Tun Dr. Mahathir, the Prime Minister of Malaysia. On the day, Dr. Mahathir was conferred an Honorary Doctor of Laws from National University of Singapore, as well as Distinguished Honorary Patron Award by AFEO. The YMC Chairman, Ir Tak TANG was invited to join the ceremony as the Hong Kong representative. Though it was a brief meeting, it was a precious opportunity to be invited as a guest.



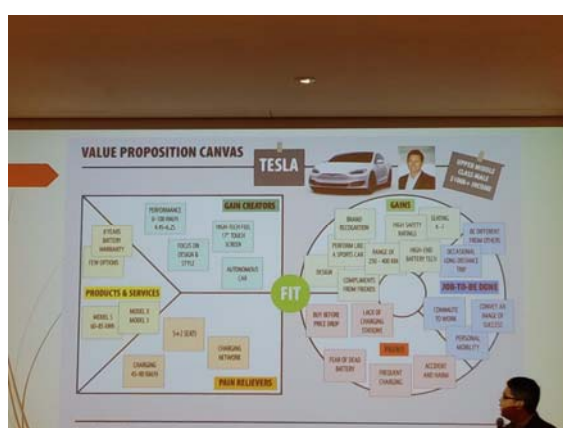


### 3. “Startup Challenge” Workshop

IES organized a workshop “Start-up Challenge” for the delegates to develop viable business models for startups. All startups begin with ideas to solve problems. With the rapid development of technology and ample information from the Internet, it is easier than ever for engineers to convert their problem-solving skills into products and services. These products and services not only generate revenue to businesses but also give rise to solutions to many complex problems in the world.

The “Start-up Challenge” workshop invited the inventor of portable water filter WaterROAM, Mr David Pong for experience sharing. He first introduced the Business Model Canvas (BMC) to capture the essential components for a viable business, including mainly unique value proposition, customer segments, customer relationships, key resources, key activities and key partners. These components serve as a useful tool for evaluation of business models. In particular, David illustrated the use of BMC with his first-hand experience. When he first founded WaterROMA, he had well-developed water filtering device in hand but lacked the direction to grow his business.

For any startup, the most fundamental challenge is to establish the target customers for his unique technology. With the idea of portable water filter in his mind, David initially identified hikers, disaster relief and rural communities as potential customer segments. However, after exploring the behaviours of different customer segments, David noticed that his prototype had certain limitations. For example, hikers would not carry sizeable water filter during hiking. On the other hand, David strived to refine his prototype by proactively engaging with other customer segments and collect opinions. In particular, he strengthened the value propositions of the prototype to rural communities. Not only being portable, durable and affordable, the portable water filter, which resembles a bicycle pump, is easy to use and would not require complex learning. He also maintained good customer relationship such that he could acquaint with customers and retain or grow the potential customers. In some rural communities, selling filtered water in fact became in local business. These commercial activities had boosted the sales of the portable water filters and sustained the business model. The delegates all appreciated that the BMC is an iterative process which required logical analysis.



Subsequent to David’s sharing, the delegates had a chance to practice BMC to solve real-life problems. As amateur technopreneurs, the delegates were excited to kick off their first startups. Similar to the Country Report session, delegates discussed the major engineering challenges among their home countries. Some common problems included traffic congestion, flooding, etc. It was interesting to observe new ideas among the talents in the conference

room. As David said, innovation does not have to be new things, but also reorientation of existing technologies. By analyzing the existing situation step-by-step, the delegates were able to pinpoint the underlying problem. For example, when discussing traffic congestion in many Asian cities, one team noted the enhancement of walkability may appeal to pedestrians so that commuters may switch from road traffic to non-road traffic. One of the innovations was to Segway train which consists of 4-5 Segway units. Tailor made to suit short-distance in urban area, it was expected to reduce the need for vehicular traffic on the road. The Segway train would excel in flexibility, comfort, safety, convenience and hence would have a strong affinity to the target customer segment, urban commuters.



All in all, the “Startup Challenge” workshop was a valuable lesson to all the delegates. The systematic approach to business models was eye-opening to the young engineers. Whether they would like to found a startup or not, they gained an insight on the importance on market research and customer relationship. After all, any engineering products would serve a certain target customers/users. By emphasizing on the needs of the end-users, engineers could make their products both financially viable and fit-for-purpose.



## 4. Technical Visits

### 4.1. Tuas Port

The visit to Tuas Port features the one of the largest construction projects in Singapore, Tuas Terminal Development. In view of the increasing demand for transshipment, the port operator, PSA, has planned to migrate its operation from Tanjong Pagar Terminal located at the centre of the city to Tuas Port, which is at the far west of Singapore. With fully automated cranes, the new container terminal is expected to boost the capacity of the port by 50% to 65 million standard size containers. The strategic plan will also free the up to 1,000 hectare of valuable in the central business area for redevelopment.

The project comprised dredging of navigations, reclamation of 387 hectares of land (more than three times the area of Hong Kong Disneyland Resort) and construction of port infrastructures. Over 70% of Phase 1 has been completed while the contract of Phase 2 had just commenced.



Upon the visit, the Resident Engineers gave an overview of project and detailed construction sequence of the reclamation works including dredging, installation of caissons, backfilling, soil improvement works and consolidation. The Resident Engineers highlighted that one of the challenges was to minimize differential settlement in order to accommodate the automated cranes which required high precision. As such, they emphasized on the importance of soil improvement works, for example, installation of vertical drains, allowed sufficient time for consolidation and imposed stringent settlement limits.

The presentation also covered the sustainability aspects of the project. For example, prefabrication had been deployed for the construction of caissons to minimize material wastage. The moving formwork deployed also ensured the overall progress of the project. Interestingly, dredged materials were also used for backfilling such that the burden to the landfill is lessened.

Apart from the engineering perspective, the Resident Engineer had an in-depth discussion on the future of the transshipment industry in Singapore. Owing to its efficiency and geographical location, Singapore claims the world's busiest transshipment port. On the other hand, PSA may need to cope with the challenges from the trade war and 3D printing. It would be insightful to learn that PSA had an aim to reduce the transshipment time in the ports in Singapore in order to upkeep their competitiveness in this rapidly changing economy.

## 4.2. Singapore City Gallery

The Singapore City Gallery documents Singapore's physical transformation in the last 50 years to become "one of the most liveable cities in Asia" and showcased its broad approach in town planning. Similar to Hong Kong, Singapore is a small and densely populated city which required strategic planning to allocate valuable land resources to create self-sustainable communities within the city.

Land reclamation is the board approach to supplement the scarce land resources in Singapore. Singapore has grown at least 100 square kilometres from its original size before 1819 when it was founded, and it could be said that reclamation is an indispensable from Singapore's development over the time. For example, Raffles Place (central business area), Changi Airport, Tanjong Pagar Terminal and the famous Gardens by the Bay are located on reclaimed land. On the other hand, holistic planning must be conducted beforehand to ensure a delicate balance in the land uses. For instance, it is common to have green belts and parks located in the middle of the urban area to provide leisure area and pleasant visual impact, which made the city more liveable.

In terms of communities, the Singapore Government has established a series of urban renewal programme. The government is planning to redevelop the 10-storey public housing which was built 40-50 years ago to high-rise ones. This would better utilize the land resources and increase the average living area of the residents. By providing incentives through the policy on public housing, the Singapore Government effectively uplifted the living standard and encourages larger family sizes, which in turns alleviate other social issues such as aging population.



The government also aims to maintain a mix in demographics within the communities such that the competing needs for living, work, leisure, school and other institutional facilities could be satisfied. Apart from encouraging the younger generations to live with the elderly, the government strategically locate the community facilities and amenities at regional hubs. This not only better allocates the resources efficiently but also reduces the transport demand across districts in view of common traffic congestion problem in many cities.

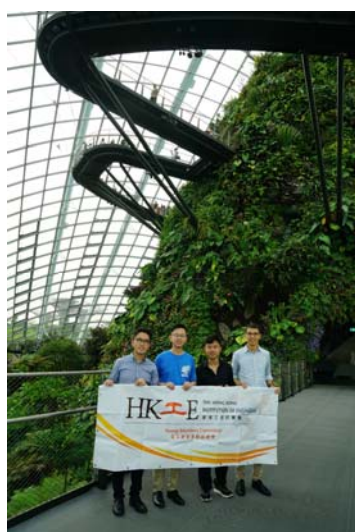
In parallel with the urban renewal programme, the government advocates the preservation of historic buildings. Similar to Hong Kong, Singapore established a system for the listed buildings with significant heritage values. If the owner plans to redevelop the listed the listed buildings, they would need to submit a proposal for the authority's approval. The broad

approach nowadays is to preserve whole or part of the building such that its periphery would not be significantly modified. For example, the authority required the owner to retain specific elements such as the façade when the owner of an old shoe-making factory proposed to redevelop it into a hotel. Other general requirements included the minimum of public open space to be provided. On the other hand, the government would provide incentives in term of land premium. In this way, the government is able to maintain continuity in the interest of history and culture heritage.

### 4.3. Gardens by the Bay

Gardens by the Bay is a nature park located on the reclaimed land by the Marina Bay. It is not one of the popular tourist attractions in Singapore but also a demonstration of the concept “city in a garden”. Apart from showcasing the botany and landscape designs, the Gardens aims to promote the concept of sustainability.

The main attractions in the Gardens include the Flower Dome, Cloud Forest and Supertree Grove. The Flower Dome and Cloud Forest are conservatories which are intended to be an energy efficient showcase of sustainable building technologies and to provide an all-weather edutainment space within the Gardens. Supertrees are tree-like structures that dominate the Gardens' landscape with heights up to 50 metres. They are vertical gardens that perform a multitude of functions, which include planting, shading and working as environmental engines for the gardens.



The Gardens capitalizes on the reuse and recycling of water and waste, aims to preserve energy and relies on renewable energy. The rainwater is harvested and stored underground for irrigation. Wastewater would be treated and reclaimed as NEWater. The Gardens also collect biomass from the streets and external parks for energy generation. The hot water would be fed into the desiccant regenerator to produce desiccant while the chilled water would be used for district cooling. The ash left over from the biomass boiler would be used as fertilizers for the plants within the Gardens. Regarding energy preservation, the temperature within the conservatories can be regulated by the retractable external shading and fogging device. This could reduce the overall energy use for cooling the conservatories despite the hot weather in Singapore. The photovoltaic cells could also harvest solar energy which further enhanced the energy-efficiency. All these measures have converted the Gardens into a sustainable landmark in Singapore.



## 5. Networking

### 5.1. Ice-breaking

To foster the collaboration between the young engineers, at the beginning of the YEAFEO 25, all delegates were divided into groups with a mixture of members from different countries. Before the start of the activities, the delegates participated in the ice breaking game “Egg – Chicken – Dinosaurs” to warm up and get ready for the series of upcoming activities. Instead of just exchanging business cards as usual, the first mission for the teams was to demonstrate their creativity to produce an interesting video clip introducing the team members. The team obtaining the most liked video on Facebook was rewarded with additional vouchers for the team lunch. Through making the video, the delegates not only mingled with each other, but also learnt more about the background and cultures of the countries. The video-making was a unique memory to everyone involved.



### 5.2. Welcome Reception

The welcome reception was held at Resort World, Sentosa on the first night to commemorate the beginning of 36<sup>th</sup> CAFEO and 25<sup>th</sup> YEAFEO Conference.



The climax of the night was the culture performances by different countries. The countries took turns to go on the stage for cultural performances. Unique performances like folk music, dance and drama demonstrated the diversity in the cultures of the participating countries. The delegates took the opportunity to show their passion and send our warmest regard to CAFEO, YEAFEO and all the participants at the end of the welcome reception. In particular, the Hong Kong delegates performed two Cantonese songs, Virtues of Harmony and Amani with vibrant dance. At the end of the performance, delegates from other countries joined the

Hong Kong delegates at the stage to enjoy the performance. They celebrated the long term relationships between Hong Kong and ASEAN countries with the participation of CAFEO and YEAFEO conferences in the previous years.

### 5.3. Young Engineers Night

On the second night, after an intensive day of conferences in Sentosa, the delegates joined the Young Engineers Night in a restaurant in Orchard Road. Apart from enjoying the delicious Singaporean food and drinks, the delegates had a chance to chat with delegates from other countries to learn more about their culture in the relaxing environment. Playing snooker, singing karaoke and dancing on the stage, the delegates enjoyed a wonderful night mingling with other delegates.



### 5.4. Souvenir Exchange

One of the highlights in YEAFEO was the souvenir exchange session after the Board Meeting. The delegates from each country prepared souvenir packs that could best represent their country for exchange. To match with the theme of CAFEO, the Hong Kong delegates prepared miniature models of tram, which was the first railway system in Hong Kong. Apart from the tram models, the delegates also prepared a pack of collection of snacks from Hong Kong, including haw flakes (山楂餅), preserved plum (嘉應子) and Sachima (沙琪瑪).





### 5.5. Farewell Banquet

The closing ceremony was held on the third night during the farewell banquet. The banquet marked the official end to the conference, and concluded the achievements in CAFEO 36 this year. Alongside the anniversary dinner and closing speech, the ASEAN Engineering Achievement Award was also presented, followed by flag handover to the president of CAFEO 37. At the end of the banquet, the young engineers from different countries went onto the stage and performed the cultural dance of different countries together. The performance signified the friendship of the young engineers as a unity. With the fruitful sharing and exchanges with delegates from other countries, everyone had a very enjoyable and memorable night.





## 6. Conclusion

Delegates from HKIE-YMC have fulfilled the following objectives when participating in the CAFEO 36 and the YEAFEO 25:

- To broaden the horizons in engineering profession through sharing with young engineers from other countries;
- To enhance the career perspectives of the young members;
- To gain exposure to large scale international conference;
- To nurture the leadership and communication tactics of younger generations;
- To gain knowledge on the current practice of other countries;
- To exchange technical knowledge/ideas/culture with engineers worldwide;
- To extend the network of our young engineers with participants from other countries;
- To promote the Hong Kong Institution of Engineers (HKIE) to other countries;
- To promote the Young Members Committee (HKIE-YMC) to other countries; and
- To establish long-term partnership with young engineers from other countries

The initiative of the participation of CAFEO 36 and YEAFEO 25 of HKIE-YMC was in line with the President in his HKIE Presidential Address 2018/2019 and his goals to nurture young engineers, facilitate exchange of knowledge and ideas, and expand members' horizons. In the past few years, delegates from the HKIE-YMC attended the conference as guests and observers.

CAFEO 36 and YEAFEO 25 this year was a valuable experience for professional engineers, especially young engineers. The four YMC delegates have gained exposure in attending international conference, acquired engineering knowledge from other countries, enhanced communication skills. Furthermore, it has broadened the delegates' global views and understanding of latest trends in fellow countries. After years of active participation at YEAFEO, YMC would utilise the network and the experience to host a similar international conference in Hong Kong in April 2019 to strengthen the bonds between engineering societies and raise the awareness of Hong Kong engineers on global issues. Next year, CAFEO 37 and YEAFEO 26 will be held in Indonesia in September 2019. The HKIE-YMC will continue to encourage more young engineers to attend this meaningful event.



## 7. Feedback

### Ir TANG Whai Tak (Chairman)



It is absolutely splendid for the HKIE-YMC to return to YEAFEO. In a rapidly changing world, we need to Step Out of the box and Step Up to be bold for creative solutions. Technological advancements have opened many doors for us, and it is crucial that the engineering community leverages technology in our workflows. Every generation of engineers have their own challenges, and inevitably they all ponder what the future has in store. Getting comfortable with a new environment and overcoming hurdles are easier said than done.

We must also locate ourselves on the map. If our city were to flourish as the Asia's World City, we must deepen our understanding of the concepts and our relations with other global cities. This is why the HKIE-YMC continues to support members in building up global views through delegation trips. I sincerely hope that the HKIE-YMC can be the ones to hold the door for our young members as we Step Out to explore together.

### Mr. Ken WONG (Committee Member)

I am honored to be one of the HKIE-YMC delegates to YEAFEO 25. It was a valuable and interesting experience for me to explore the current development and the culture and meet the engineers from our neighbouring ASEAN countries.

Through attending the Country Report session, I understood the challenges faced by ASEAN countries and the status of development in respect of government policy, infrastructure, economy and technology. The presentations inspired me to contribute to similar solutions in Hong Kong. In addition to exchanging technical knowledge, the "Startup Challenge" workshop provided a chance for me to collaborate with other young engineers and to develop a solution through a series of analysis and discussion. Moreover, it was a precious opportunity for me to visit Singapore's mega project, Tuas Port. The detailed presentation by the resident engineers gave me comprehensive information on the background and design of the project and the challenges they had faced during construction. Furthermore, Young Engineers Night was wonderful networking event for me to meet some new friends and learn about their culture. It was the first time for me to meet engineers from ASEAN countries!



On the whole, this event gave me an unforgettable experience. I look forward to meeting the young engineers again in YEAFEO 26 next year in Jakarta!

Mr. Ackle SHAM (Co-opted Member)

I would like to take this opportunity to express my sincere gratitude to the HKIE for offering the chance to participate in YEAFEO. It is a great chance for me to explore the engineering industry not only in Hong Kong but also the Asia. I am truly thankful for support given by the institution as it contributes me a lot in my personal growth.

The delegation is a fruitful one. Focusing on the theme of Railway, we represented Hong Kong and shared our experience and strategy with other countries. At the same time, we gained a lot from other countries. We joined technical and cultural visits as well as attending seminars and meetings, including the board meeting, Start-up Challenge, etc. Through those events, we indeed achieved our goal to exchange cultural and technical knowledge with foreign engineers.

Though Hong Kong is not an ASEAN member, we were invited to the conference with very warm welcome. Members from all participating countries are all friendly and helpful. I was particularly impressed by the welcoming dinner and farewell banquet, especially at the time when all young engineers went on to the stage and danced together. Though we may not know each other for so long, when we sang the same song and danced together, I felt like we were good friends for life. I would truly miss the friendship and great memories from YEAFEO. If we have the chance to hold similar events in the future, I hope to meet all of them again and share with them the best bit of Hong Kong.



Mr. Howard KWOK (Event Coordinator)



YEAFEO 25 is definitely an eye-opening experience to me. It is an unusual opportunity for me to exchange knowledge with delegates from fellow ASEAN countries, have a taste of their cultures and build friendship with them.

The Country Report Session is indeed a highlight of YEAFEO 25. The half-day presentation and discussion session enabled me to learn about the engineering challenges encountered by fellow countries, and how the countries shared experience, collaborate and develop solutions. In fact, Hong Kong share some of the concerns with the countries such as shortage of land with Singapore, demand for renewable energy with Malaysia and need for enhanced disaster preparedness with the Philippines. I

was also thankful that the Institution of Engineers, Singapore organized a “Startup Challenge” workshop. It allowed me to step into the shoes of technopreneurs and brainstorm what and how we could achieve to solve the engineering issues while making a financially viable business. This is certainly a step up from the routine work of engineers.

Another highlight would be the series of networking activities with fellow engineers. In the opening reception, every country had showcased their best cultural performance in form of singing, dancing and marching. At end of the evening, everyone just hopped onto the stage to sing “Amani” and perform the “十字步” dance with Hong Kong delegates. It was truly a memorable evening where the young engineers became one united entity.

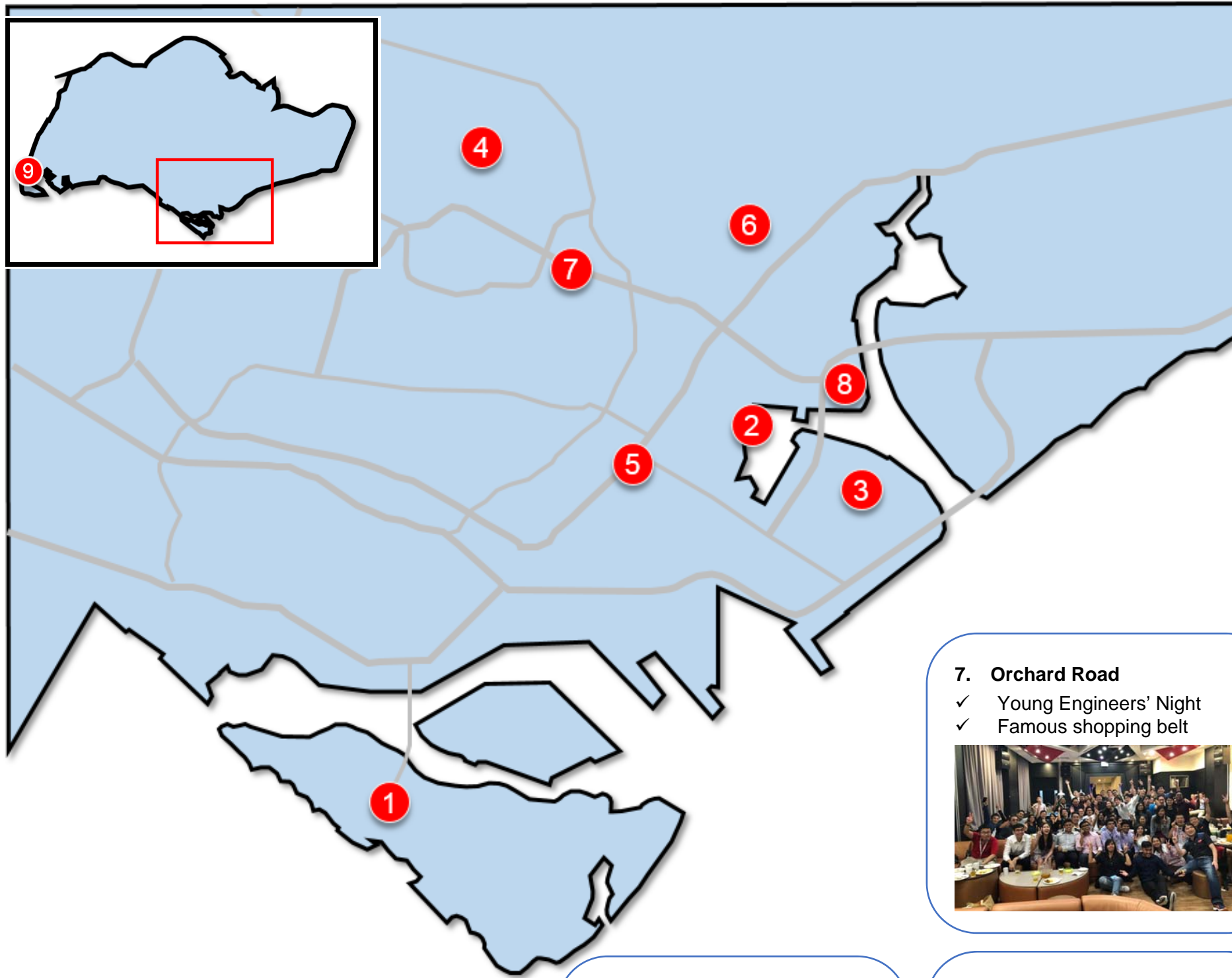
YEAFEO 25 had left me unforgettable memories. I strongly appeal you all to join in the upcoming YMC activities to “Step Out, Step Up” to gain international exposure and meet young engineers around the world in YEAFEO 26.

## **Appendix A**

### YEAFEO 25 – Singapore at a glance



# YEAFFEO 25 - Singapore at a glance



## 1. Resort World Sentosa

- ✓ Conference, meetings and formal dinners



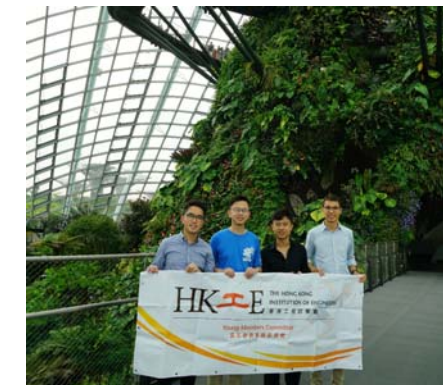
## 2. Merlion Park

- ✓ Landmark of Singapore



## 3. Gardens by the Bay

- ✓ Promotes "City in a Garden" concept



## 4. Shangri-La Hotel

- ✓ Meeting with Malaysia Prime Minister



## 7. Orchard Road

- ✓ Young Engineers' Night
- ✓ Famous shopping belt



## 5. City Gallery / Chinatown

- ✓ Exhibition on town planning
- ✓ Traditional Chinese culture



## 6. Little India

- ✓ Traditional Indian culture
- ✓ Lighting decoration for Diwali Festival of Lights



## 8. Tuas Port

- ✓ Largest ongoing reclamation project in Singapore



## 9. PSB Academy City Campus

- ✓ Startup Challenge





## **Appendix B**

### Conference Programme

## Programme Summary

Sunday, 11 November 2018				
	Arrival of Participants			
15:00	Arrive Singapore Changi Airport and ride to Hotel for check-in			
Monday, 12 November 2018				
09:00 – 12:00	Ice-breaking Event / Country Reports			
12:00 – 17:00	“Start-up Challenge” Workshop			
18:00 – 20:00	Welcome Reception			
Tuesday, 13 November 2018				
08:30 – 09:00	Registration of Conference Participants			
09:00 – 11:00	Opening Ceremony			
11:00 – 12:30	Singapore Rail Technology Conference		ASEAN Engineering Deans Summit	
12:30 – 13:30	Lunch / Meeting with Malaysian Prime Minister			
13:30 – 17:00	Singapore Rail Technology Conference	ASEAN Engineering Deans Summit	YEAFO Board Meeting	Certificate Presentation Ceremony for AER
19:00 – 21:00	Networking Event – Young Engineers Night			

Wednesday, 14 November 2018				
09:00 – 11:00	Singapore Rail Technology Conference	ASEAN Engineering Deans Summit	Country Report 10 minutes/country	Technical Visit – Tuas Port
11:00 – 12:30	Singapore Rail Technology Conference	ASEAN Engineering Deans Summit	FEIAP EXCO Meeting	
12:30 – 13:30	Lunch			
13:30 – 15:30	Singapore Rail Technology Conference	ASEAN Engineering Deans Summit	AFEO Governing Board	“Start-up Challenge”
15:30 – 17:00	Singapore Rail Technology Conference	ASEAN Engineering Deans Summit	Signing of Singapore Declaration & Gift Exchange	Visit to Gardens by the Bay
19:00 – 21:00	Closing Banquet of CAFEO 36 & 52nd IES Annual Dinner 2018			

Thursday, 15 November 2018	
	Visit to Singapore City Gallery
14:00	Return to Hong Kong

## **Appendix C**

### Financial Report