



Technical Visit to Hong Kong International Airport



Life Below Water  
Hoi Ha Wan Marine Park



Young or Ready Series:  
A Route to Become a Professional Mechanical Engineer



# Annual Report

## Session 2019/2020



Leadership Training Camp - Try & Go

**HK I E** THE HONG KONG  
INSTITUTION OF ENGINEERS  
香港工程師學會

Young Members Committee  
青年會員事務委員會

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## The Hong Kong Institution of Engineers Young Members Committee

### The 35th Annual General Meeting for Session 2019/2020

Date: 12 May 2020 (Tuesday)  
 Time: 18:15  
 Venue: Chan Yat Mei Sophie Room, the HKIE Headquarters,  
 9/F Island Beverley, No 1 Great George Street, Causeway Bay,  
 Hong Kong

#### Agenda Items:

1. To receive and confirm the Minutes of the 34th Annual General Meeting.
2. To receive and adopt the Annual Report of the YMC for Session 2019/2020.
3. To receive and adopt the Financial Statement of the YMC for Session 2019/2020.
4. To elect the Chairman and Committee Members of the YMC for Session 2020/2021.
5. Any other business.

## The Hong Kong Institution of Engineers Young Members Committee

### Minutes of the 34th Annual General Meeting for Session 2018/2019

Date: 4 June 2019 (Tuesday)  
 Time: 18:42 to 19:01  
 Venue: Grand Ballroom, 6/F, Royal Plaza Hotel, 193 Prince Edward Road West, Mong Kok, Kowloon  
 Present: More than 42 members attended

The Chairman, Ir TANG Whai Tak, welcomed all participants to the Thirty-fourth Annual General Meeting of the Young Members Committee (YMC).

1. The minutes of the Thirty-third Annual General Meeting was confirmed and endorsed.  
Proposer: Mr CHEUNG Tin King      Seconder: Mr John CHAN Ho Yin
2. The Chairman, Ir TANG Whai Tak, delivered the Annual Report for the Session 2018/2019, which was subsequently endorsed.  
Proposer: Mr Ken WONG Hei Long      Seconder: Mr Mark WONG Siu Chun
3. The Treasurer, Mr Thomas LAM Chun Ho, presented the Financial Report for the Session 2018/2019, which was subsequently endorsed.  
Proposer: Ir Ambrose CHEN Hao Ting      Seconder: Mr Samson PUNG Chun Nok
4. **Mr Eric HO Ka Chun** was nominated by the Committee to be the Chairman for the Session 2019/2020 and was subsequently elected without objection.  
Proposer: Ms Emily YU Hay Ting      Seconder: Mr Ken WONG Hei Long
5. The following members were nominated in the election of Committee Members for the Session 2019/2020.

<i>Name</i>	<i>Discipline</i>	<i>Organisation</i>
<b>Ms Eileen CHENG Yuk Hung</b> (Proposer : Mr Eric HO Ka Chun)	<b>Environmental</b> Seconder : Mr Samson PUNG Chun Nok)	<b>ATAL Engineering Ltd.</b>
<b>Mr CHEUNG Tin King</b> (Proposer : Mr Eric HO Ka Chun)	<b>Mechanical</b> Seconder : Ir Ambrose CHEN Hao Ting)	<b>CLP Power Hong Kong Ltd.</b>
<b>Ir Stanley LAI Ho Keung</b> (Proposer : Mr Eric HO Ka Chun)	<b>Civil</b> Seconder : Ms Emily YU Hay Ting)	<b>Civil Engineering Development Department, HKSARG</b>

<b>Mr Justin PANG Ho Yin</b> (Proposer : Ir TANG Whai Tak)	<b>Building Services</b> Seconder : Mr Eric HO Ka Chun)	<b>J. Roger Preston Ltd.</b>
<b>Mr Vincent POON Wing Ho</b> (Proposer : Mr Eric HO Ka Chun)	<b>Building</b> Seconder : Mr Thomas LAM Chun Ho)	<b>City University of Hong Kong</b>
<b>Mr Ackle SHAM Cheuk Kiu</b> (Proposer : Ir TANG Whai Tak)	<b>Mechanical</b> Seconder : Mr Eric HO Ka Chun)	<b>The Hong Kong University of Science and Technology</b>
<b>Ms Bella WU Oi Man</b> (Proposer : Ir TANG Whai Tak)	<b>Civil</b> Seconder : Mr Eric HO Ka Chun)	<b>WSP (Asia) Ltd.</b>

Total No. of Nomination: 7

No. of Vacancy of Committee Members for Session 2019/20: 7

As the number of nominations for Committee Members equalled the number of vacancies, no ballot was held. The nominees were subsequently elected to be Committee Members of the YMC.

Proposer: Mr Samson PUNG Chun Nok      Seconder: Mr Timothy LUN Zhuo Tian

#### 6. A.O.B

The Chairman, Ir TANG Whai Tak, proposed a vote of thanks to the Committee Members, Coopted Members, Event Coordinators and helpers for their time and tremendous effort throughout the Session.

Mr Eric HO Ka Chun proposed a vote of thanks to the outgoing Chairman, Ir TANG Whai Tak, for his leadership in the Session.

There being no other business, the meeting adjourned at 19:01.

Recorded by:



Ir Yani KO Yik Yan  
 Honorary Secretary (2018/2019)  
 Young Members Committee  
 The Hong Kong Institution of Engineers

Date: 4 June 2019

### The Committee 2019/2020

Post	Name
Chairman (Council, Learned Society Board and Planning Committee Representative)	Ir Rachel NG Hoi Ching
Immediate Past Chairman	Ir TANG Whai Tak
Honorary Secretary (Public Service Committee Representative)	Mr Thomas LAM Chun Ho
Honorary Treasurer (Continuing Professional Development Committee Representative)	Ir Ken WONG Hei Long
Committee Member (Students Promotion Group)	Mr Vincent POON Wing Ho
Committee Member (Graduates Promotion Group)	Mr Ackle SHAM Cheuk Kiu
Committee Member (Seminars Group)	Ms Bella WU Oi Man
Committee Member (Visits Group)	Ir CHEUNG Tin King
Committee Member (Non-Technical Programme Group)	Ms Evelyn WAI Yi Kwan
Committee Member (Community Services Group)	Ir Stanley LAI Ho Keung
Committee Member (Sports & Recreation Group)	Mr Justin PANG Ho Yin
Committee Member (Social, Culture & Arts Group)	Mr Alan LAM Ho Lun

Post	Name
Committee Member (Public Relations Group)	Mr Samson PUNG Chun Nok
Committee Member (Publicity and Webmaster Group)	Ms Eileen CHENG Yuk Hung
Committee Member (Special Events Group)	Mr Mark WONG Siu Chun
Committee Member (Human Resources Group)	Ms June YIP King Yan
Co-opted Member (Seminars Group)	Mr Terry IU Tsun Fai
Co-opted Member (Visits Group)	Mr JIM Holman
Co-opted Member (Special Events Group)	Mr Chris MAK Chun Kwong
Co-opted Member (from Council)	Ir Prof LAM Cheuk Fung
Co-opted Member (from Council)	Ir LEUNG Yiu Hong
Event Coordinator (Students Promotion Group)	Ms Keiko KAM Wing Sum
Advisor (Chairman of Learned Society Board)	Ir Aaron BOK Kwok Ming
Observer (Past Chairman)	Ir Ambrose CHEN Hao Ting
Observer (Past Chairman)	Ms Candy FUNG Man Yui

## Chairman's Message

Henry Ford said "Anyone who stops learning is old, whether at twenty or eighty. Anyone who keeps learning stays young.". Continuous learning plays a significant part in an engineer's career. Therefore, YMC always encourages young members to reach out, explore and learn. Continuing the success of previous sessions, YMC brought her young members out of the homebound and left their footsteps at Jakarta, Hunan, Shenzhen and Dongguan of Mainland China in Session 2019/2020. And of course, we never forgot to appreciate the engineering wonders in Hong Kong. We explored the local infrastructural and technological development such as cavern development, 5G technology and aviation monitoring system, through the organization of seminars and visits.

While the session was in full swing, the coronavirus pandemic gave YMC a short pause. We had to call off events which had been lined up in light of the consideration of social distancing. Despite such worrying and uncertain situation, our Committee had shown strong resilience. We put aside the norms and began to re-evaluate means of connecting our members and delivering learned society activities without putting anyone's health at risk.

After all, I see this as a challenge accepted by YMC, the Institution and all our members. We learnt how to encounter with challenge, prepare for unknown, gain resiliency and



**Ir Rachel NG Hoi Ching**  
HKIE-YMC Chairman  
Session 2019/2020

support each other. In this ever-evolving world, such occasion gave us each a fearless heart and prepared us for the unforeseen challenges that lie ahead.

Session 2019/2020 marks the 35th birthday of the HKIE-YMC and the 2019-2020 coronavirus pandemic marks its time in the World's history. As Albert Einstein said "In the midst crisis, lies great opportunity.". I wish YMC a great session ahead and everyone who is reading this message a safe and healthy life!

## Highlights of 2019/2020

### 年青工程師高端創新科技 x 藝術文化考察團 2019

隨着粵港澳大灣區的發展愈趨成熟，青年會員事務委員會與常青匯友 (Forever Young Alumni) 於 2019 年 8 月 30 至 31 日合辦考察團，以了解香港與大灣區工程界的最新發展。我們亦有幸邀請到立法會工程界功能界別議員盧偉國博士、工程師作隨團顧問。



考察團先到香港科學園參觀，以加深團員對港深創新及科技園初步發展計劃的認識。在現時的規劃中，港深創新及科技園的可建樓面除了會用作高等教育及研究外，亦會預留部分作創新科技及文化創意展示等用途。隨後考察團到訪深圳的金茂大廈，進一步了解深圳市配合港深創新及科技園建設配套政策，同時俯瞰落馬洲河套區。

離開深圳市後，團員再到東莞市參觀，見證該市為配合粵港澳大灣區規劃而發展的部分重點項目。第一站是中國散裂中子源，它是世界第四及全國首個散裂中子源。散裂中子源是一個基於粒子加速器的

中子源，是用來探測物質微觀結構和運動的科研裝置。它可被應用於不同領域，包括材料科學、生命科學、醫藥等。中國散裂中子源現時也有與香港的科研機構合作。考察團在東莞的第二站是松山湖國際機器人產業基地，團員與發展無人機、運動控制、工業機器、自動化等高技術的企業進行交流，了解東莞市於機器人與信息技術領域的發展。

兩日一夜的考察團以東莞新地標燕嶺園作終點。透過參觀燕嶺園，公眾能了解和感受此中港兩地創意文化交流的新據點。是次考察團令團員對粵港澳大灣區，特別是工程界別的進程，有更深的了解。





### CAFE036 / YEAFEO 27

To gain a broader insight into the engineering profession and foster warm relationships with engineering institutions from different regions, five young engineers attended the 37th Conference of the Association of Southeast Asian Nations (ASEAN) Federation of Engineering Organisations in conjunction with the 26th Meeting of Young Engineers of the ASEAN Federation of Engineering Organisations (YEAFEO) in Jakarta from 10 - 13 September 2019.

Under the theme of "The beacon of sustainable development", the conference discussed pertinent

issues and trends in connectivity, equitability and prosperity.

One of the highlights was the country report session. In this session, our delegates explained how Hong Kong's connectivity was enhanced through meticulous transport planning, and how the city reduced flood risks by embracing the concept of blue-green infrastructure and building sustainable drainage systems.



The delegates were also invited to attend the YEAFEO Governing Board Meeting to contribute ideas to the amendment of the YEAFEO regulation, a review of the YEAFEO registration fees and other institutional matters.

Apart from the seminars and meetings, the delegates were able to appreciate the engineering developments in Jakarta through various technical visits. They went to the Headquarters of the Mass Rapid Transit (MRT) in Jakarta to investigate the design and construction of the newly opened MRT line, which has resolved much of the traffic congestion in the city.

They witnessed the application of 'Sosrobahu' technology at a bridge construction site, which reduced road closures by allowing parallel pier heads to be constructed before being lifted by oil-filled hydraulic jacks and rotated in place.



They also visited the Menara Astra tower and saw the environmentally sustainable design features and a technology company Gojek that provides multi-services and digital payment solutions to customers, drivers and merchants in Southeast Asia.

The delegates were also honoured to meet Mr Anies Baswedan, the Governor of Jakarta, in a banquet and exchange ideas with Dr Basuki Hadimuljono, the Minister of Public Works and Housing, on lean construction and green building. They were also able to develop new friendship with delegates from different regions and discussed collaboration in the future.



The four-day event was a great opportunity to widen the young engineers' horizons and extend the YMC's network. We look forward to the next conference in Vietnam.

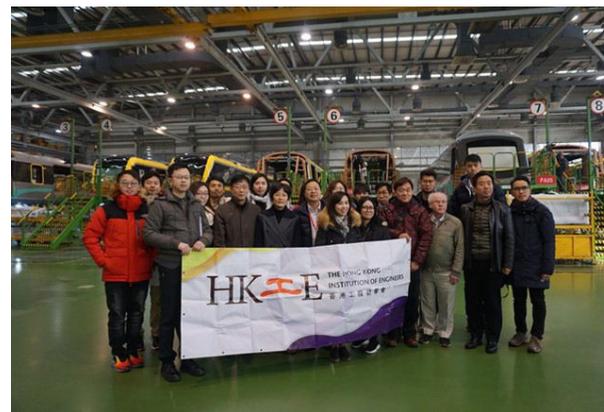


### 湖南省工程文化考察團

內地改革開放後發展迅速，青年會員事務委員會多年來積極舉辦內地考察團，以助年青工程師拓闊視野，增進交流。本年，青委會以「鐵路·水資源·歷史·文化」為考察綱領，選址湖南，於 2019 年 12 月 21 日起進行了九天的考察。

湖南省位於長江中游、洞庭湖南岸，並有湘江貫穿全境。百姓靠水吃水，水資源的運用以及河洪防治成為湖南的千古課題。在衡山上，團員步進禹王城，回味昔日大禹眺望湘江，思慮治水良策。現今，湖南省的水利戰略規劃以及水資源的開發由水利廳負責。在與他們的交流中，團員充分感受到他們出色的防洪聯線和打造「海綿城市」的積極；政府亦隨著氣候變化及對可持續發展的重視，建造節水型社會。

湖南的鐵路產業現今蜚聲國際。參訪中車株洲的時候，職員為我們介紹了 80



年間，他們從仰人鼻息地倚靠蘇俄技術到現在列車反銷國外的歷程。為體驗最新磁浮列車的普及應用，團員於長沙磁浮快線乘坐他們自主研發的「追風者」號，感受其穩定和寧靜。此外，團員亦有幸參觀了負責製造隧道工程裝備和鐵路軌道的中國鐵建以及實現 L4 級自動駕駛的湘江新區智能系統測試區。

湖南有着濃厚的歷史文化背景，當地的土家族人仍流傳着先祖蚩尤的事蹟。族人於團中熱心地講解他們獨特的哭嫁、趕屍及梯瑪文化。在洞庭湖上，團員到了五帝之中，虞帝二妃之墓；亦登上了岳陽樓，體現古人「先天下之憂而憂」的家國情懷。

團員們在旅程中都非常投入，每有所得便熱切討論。藉此感謝各接待單位的鼎力支持，令是次考察團得以圓滿成功。

## List of Activities 2019/2020

Date	Event	Co-organiser(s)	Speaker(s)/ Guest(s)
12/7/2019	Joint Professional Event: Cooking Class	CIBSE-YEN, HKIS-YSG & ICE-HKA-G&S	-
12/7/2019	OD2019 Debriefing Seminar - Insights from Israel on Innovation, Infrastructure and Investment	CPDC	-
13/7/2019	Technical Visit to Tuen Mun-Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section (Contract No. HY/2012/08)	-	-
27/7/2019	Technical Visit to Hong Kong-Zhuhai-Macao Bridge Hong Kong Port and Hong Kong Link Road	-	-
29/7/2019	Technical Seminar on the Development of Sewage Treatment in Hong Kong	-	Ir Vincent LEUNG & Ir Angela TONG
30-31/8/2019	年青工程師高端創新科技 x 藝術文化考察團 2019	FYA	-
10-13/9/2019	CAFEO 37 / YEAFEO 26*	AFEO	-
21/9/2019	Coastal Clean-up Day 2019*	-	-
21/9/2019	Hong Kong Young Construction Conference 2019	CIC, HKCA-YMS, HKCIEGU, HKCSA-YMC, HKFEMC, HKIA & HKIS	-
18/10/2019	Arborist Introduction Workshop (1) - Tree Identification and Assessment	-	Mr Chiky WONG

Date	Event	Co-organiser(s)	Speaker(s)/ Guest(s)
22/10/2019	Young or Ready Series: A Route to become a Professional Building Services Engineer	BSD	Ir Felix CHAN
25/10/2019	Technical Seminar on Reclamation in Hong Kong	-	Ir Alfred WONG, Ir Andy LOK & Ir Alan TANG
26/10/2019	Cultural tour - Seeing the end of life	-	-
26/10/2019	Technical Visit to Central Kowloon Route (CKR) - Kai Tak West	-	-
2, 9, 10/11/2019	Flow with AFTEC @ Shalwan*	-	-
23/11/2019	Arborist Introduction Workshop (2) – Field Study with Arborist	-	-
28/11/2019	Essential Skills to become 'Ir' - Workshop on Professional Writing	-	Ir Dr F C CHAN
1/12/2019	Life Below Water – Hoi Ha Wan Marine Park	CPDC	-
7/12/2019	Elderly Home Visit – Winter Wonder Act*	-	-
7/12/2019	Technical Visit to O · PARK 1	-	-
8/12/2019	Construction Industry Sports Day and Charity Fun Day 2019*	-	-

Date	Event	Co-organiser(s)	Speaker(s)/ Guest(s)
13/12/2019	Joint Society Christmas Party 2019: Back to School	AES-YES, ASCE, ASHRAE-YMC, HKIPE, ICE HKA G&S, IET-YMS & IMechE-YMS	-
14/12/2019	Technical Visit to Stanley Sewage Treatment Works	-	-
19/12/2019	Building Inspection Workshop	-	Mr TSIM Choi Nam
21-29/12/2019	湖南省工程文化考察團	-	-
21/12/2019	Joint Professional Event: H.K. Lovecraft Beer Brewery Tour	AES-YES, ASCE, ASHRAE-YMC, HKIPE, ICE HKA G&S, IET-YMS & IMechE-YMS	-
7/1/2020	Young or Ready Series: A Route to become a Professional Mechanical Engineer	MMNC	Ir Steven LAI, Ir C K LEE, Ir Albany TAM, Ir CK TAM & Ir Fanny TING
11/1/2020	Technical Visit to Hong Kong International Airport	-	-
12/1/2020	The 17th Green Carnival cum the 19th Eco-model Tournament <sup>#</sup>	-	-
14/1/2020	How 5G Technology will Reshape our Industries and Society	END	Dr Henry WONG
18-19/1/2020	Leadership Training Camp – Try & Go	CPDC	-
23/1/2020	Workshop on Presentation	CPDC	-

\*YMC as participant

<sup>#</sup>YMC as technical support

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Building Inspection Workshop



Essential Skills to become "Ir" - Workshop on Professional Writing



Construction Industry Sports Day and Charity Fun Day 2019



Technical Visit to Central Kowloon Route (CKR) - Kai Tak West