

會長報告

2018/2019



當我獲委任為二零一八／二零一九年度香港工程師學會會長時，學會定下的年度主題目標明確：為學會帶來「新視野 新動力」。工程行業的發展日新月異，我們需要在新領域獲取靈感，以保持增長動力。本年度自二零一九年四月起成功推行了以能力為本的專業評核。我深信這一新制度將有助於確保學會在工程師的專業評核上與國際發展趨勢接軌。

香港工程師學會的持續成功亦取決於我們能否吸引年輕工程師為學會作出貢獻，更重要的是，我們能否讓年輕人相信工程學能成就他們的未來。因此，我們推行了持續發展策略，藉推廣活動及 STEM（科學、科技、工程及數學）教育引發年輕一代對工程行業的興趣。

此策略的一個重要部分，是推出香港工程師學會「工程先鋒計劃」，為學校提供 STEM 教育支援和向學生們推廣工程專業。自二零一八年七月以來，我們接觸了超過一千五百名中學生。為激發學生對 STEM 的興趣，我們安排了實地參觀及學校講座等活動，深受學生歡迎。我們亦從各工程專業中招募約八十名「STEM 伙伴」(STEM Buddies)，以支援這些活動並與學生互動。我們還向這些 STEM 伙伴提供公開演說培訓，提升他們的技巧和熱誠以向學生推廣工程專業。

此外，我們為中小學生製作了兩套 STEM 教材，包括教學簡報、漫畫及動畫、STEM 教育網站、手冊和習作、教學指引及其他相關材料；透過我們的 STEM 伙伴與學生的互動活動，向他們展示工程專業與日常生活的關係。

二零一九年四月十三日，香港工程師學會舉辦本年度大型 STEM 活動「工程師體驗巡禮」(The HKIE Engineer Day)，讓公眾參與其中。是次活動與香港理工大學合辦，也是香港科學館「2019 香港科學節」活動之一，吸引超過四千多人次參與。現場設有展覽攤位，並安排了「工程實驗示範」及「工程講座」，所有活動旨在向參加者推廣 STEM 教育。為配合是次活動，我們還舉辦了兩項比賽，即分別為中、小學生而設的「STEM 方案設計比賽」及「智慧城市模型設計比賽」。參賽作品的水準非常高，我們對獲獎作品的創新意念均留下深刻印象。比賽的頒獎典禮亦於「工程師體驗巡禮」活動閉幕典禮中舉行。

為保持與學校教師在 STEM 教育方面的交流，副會長鍾國輝工程師與本人應教育局邀請，分別於二零一八年七月及十二月就「STEM 教育：學生學習旅程」及「STEM 教育中工程元素的角色」的主題發表演講。

職業訓練局的「業界伙伴計劃」是另一項學會支持的 STEM 活動。我們多個分部的代表受邀參加此計劃的 STEM 夏令營，與渴望了解更多工程知識的學生分享他們的專業經驗。

學生並非我們唯一關注的年輕人。我們認為應該舉辦更多活動與青年工程師交流。為加強這一重要聯繫，我們於本年度舉辦 HKIE Connect: Happy Hour Gathering for Young Members 活動。是項活動於去年七月及十一月舉行，受邀的演講嘉賓包括藝人林作及前亞洲電視有限公司高層葉家寶和黃守東，讓我們的青年會員在輕鬆有趣的氛圍中互相交流，討論業界現況。

我們亦努力提升學會的國際形象及影響力。我們除了到訪學會在加拿大、英國及澳洲的海外分部及其他工程專業學會外，我還率領代表團訪問北京的中國科學技術協會以及紐西蘭、台灣、南韓及土耳其的其他專業機構。這些訪問有助於加強我們



● 國際工程聯盟大會 2019 晚宴

的全球合作關係，亦促進「一帶一路」倡議及大灣區的發展。

我們尤其引以為豪的是於今年在香港主辦了國際工程聯盟大會及首爾協議大會，這是自二零零五年以來我們第二次成為東道主。二零一九年六月九日至十四日期間，我們很榮幸招待來自全球三十七個地區逾兩百名國際代表參加有關工程及資訊科技專業資格及其人才就業流動性的各場討論。

在推廣工程專業方面，我們努力與會員及公眾進行溝通。去年六月，我們在香港特別行政區政府路政署的支持下舉辦了「港珠澳大橋設計與建造的挑戰」研討會。該活動吸引超過二百五十名會員參加。此外，我們與路政署合辦了「港珠澳大橋多面睇」巡迴展覽，在香港多個公共場所展出。

我們繼續為會員提供交流平台，讓他們可透過論壇深入了解引起熱烈討論的議題並交換意見。其中一個重要的論壇是二零一九年一月舉行的「香港工程師學會論壇——明日大嶼願景」，我們邀請政府官員與會員討論這項重要大型項目的機遇及挑戰。我們亦就「明日大嶼願景」在公共事務委員會之下設立了專責小組，以便適時地研究相關事宜並提供專業意見。與此同時，我們致力與公眾和政府作更深入的交流，在此年度，我們向多個公共機構提交了十七份意見書，當中涉及廢物管理、土地政策及建築工地安全等議題。

為探討「一帶一路」沿線國家和地區發展所帶來深具影響的變化，我們自二零一八年八月起連續數月舉辦了一系列「一帶一路」國家座談會——包括匈牙利、巴基斯



● 會長、秘書長與「師傳蒼」合照

坦、以色列及伊朗，讓會員藉此機會與這些國家駐香港的領事館代表討論「一帶一路」下的機遇。

我們亦致力探索大灣區的發展。二零一九年二月二十一日，我受邀參加由廣東省人民政府、香港特別行政區政府及澳門特別行政區政府共同舉辦的《粵港澳大灣區發展規劃綱要》宣講會。在大灣區工程師職業資格互認問題上，我們與廣東省科學技術協會保持對話，並在香港及廣州舉行會議，討論未來發展方向。大灣區將重點開拓創新及專業服務等主要領域，這將為工程師帶來難得的機遇。我們亦與廣東省住房和城鄉建設廳會談，探討了在大灣區認可香港建築及相關專業人士資格的可能性。

從這份報告篇幅可見，學會及工程專業為應對重重挑戰致力領航協作，本年度確是繁忙的一年。

作為香港工程師學會會長，我明白到自己肩負著一個重任。有賴學會上任會長及其他副會長、理事會成員、會員及秘書處的堅實支持，我更加倍投入與所有成員攜手合作，以學會、工程專業及社區的裨益和進步而努力。

我相信，當工程師將他們的才能、知識及創造力匯聚在一起時，一切困難和問題將可迎刃而解。

既然我們能夠築起摩天大樓、架起跨海大橋並填海造新地，我們定能集眾人之力確保我們的學會、專業及工程師憑藉卓越的專業能力獲得認同，創造不一樣的結果。

會長
余錫萬工程師



● 英國土木工程師學會到訪



● 香港工程師學會論壇——明日大嶼願景

President's Report

Session 2018/2019



When I was appointed as the new HKIE President for Session 2018/2019, the objective set forth under our yearly theme was clear: to bring a “New Perspective New Momentum” (新視野 新動力) to the Institution. Engineering is evolving fast, and we need to seek inspiration in new areas to maintain our growth momentum. This Session saw the successful introduction of the Competence-based Professional Assessment. In force from April 2019, I am convinced this new system will help ensure our parity with international development of assessment for engineers who seek professional recognition.

The continuing success of the HKIE also hinges on our ability to not only entice young engineers to contribute to the Institution but, more importantly, to convince young people that engineering can be their future. We have therefore pursued a sustainable development strategy built on outreach and STEM (Science, Technology, Engineering and Mathematics) education to engage with the next generation.

As part of this strategy, we have launched the HKIE Engineer Cadet Club Programme to provide support to schools on STEM education and to promote engineering to students. Since July 2018, we have reached more than 1,500 secondary school students. To arouse students' interest in STEM, we have arranged activities such as industry site visits and school talks that have been well received by students. We have also recruited some 80 STEM Buddies from our young members across engineering disciplines to support these activities and interact with students. We have also trained STEM Buddies to foster their skills and passion for promoting engineering to students.

In addition, we have created two sets of STEM Education Kits for primary and secondary school students. Comprising Powerpoint presentations, comics, a STEM website, workbooks, teaching guides and other items, these materials are designed to demonstrate to school students how engineering impacts their daily lives, and will

be delivered by our STEM Buddies through interactive sessions.

Held on 13 April 2019, the HKIE Engineer Day represented a major public STEM event in the Session. Co-organised with The Hong Kong Polytechnic University, it attracted more than 4,000 visiting traffic. The event was part of the activities of the HK SciFest 2019 initiated by the Hong Kong Science Museum. Featuring game booths, lab demonstrations and lectures, all activities were designed to promote STEM education to visitors. To mark the occasion, we also held a prize presentation ceremony for two competitions we organised during the Session: the Smart City Model Design Competition for primary kids and the STEM Product Proposal and Design Competition for secondary students. The quality of the submissions was high, and we were impressed by the creative concepts of the winning entries.

To continue the conversation with school teachers about STEM education, Vice President Ir Edwin Chung and I were invited by the Education Bureau to deliver talks in July and December 2018 on “STEM Education: Our Learning Journey” and “The Role of Engineering in STEM Education”.

The VTC Industry Partner Collaboration Scheme is another STEM initiative supported

by the Institution. Representatives from our various Divisions were invited to join its STEM Summer Camp 2018 and share their career experiences with students keen to learn more about engineering.

Students are not the only young people we care about. We felt that more should be done to engage with young engineers. To help strengthen this important bond, we launched the “HKIE Connect: Happy Hour Gathering for Young Members” initiative in this Session. Held in July and November last year and featuring speakers like artist Joseph Lam and former senior ATV executives Ip Ka-po and Jeff S T Wong, these events allowed our young members to engage with each other in a fun and relaxed setting while discussing the state of our profession.

We also worked hard to enhance the international image and influence of the Institution. In addition to arranging presidential visits to HKIE Overseas Chapters and sister institutions in Canada, the UK and Australia, I also led delegations to the China Association for Science and Technology in Beijing, and other professional institutions in New Zealand, Taiwan, South Korea and Turkey. These visits helped deepen our global relationships as well as promote the Belt and Road Initiative and the Greater Bay Area (GBA) development.



● The HKIE Engineer Day



● Annual Dinner



● Council for Session 2018/2019

We are particularly proud about hosting the International Engineering Alliance Meetings and the Seoul Accord General Meeting in Hong Kong this year, the second time since 2005. It is our pleasure to welcome over two hundred international delegates from 37 global jurisdictions from 9 - 14 June 2019 to participate in discussions on engineering qualifications and mobility.

On promoting engineering, we have strived to better communicate with both our members and the larger public. Last June, we held a seminar on “Design and Construction Challenges of Hong Kong-Zhuhai-Macao Bridge (HZMB)”, with the support of the Highways Department (HD) of the HKSAR Government. The event attracted more than 250 delegates. Following the seminar, we co-organised “Discovering HZMB” with HD, a roving exhibition displayed at a number of public venues throughout Hong Kong.

We continued to provide a platform for our members to gain an in-depth understanding on ongoing debates and exchange views on hot topics via discussion forums. A notable forum was the HKIE Forum on Lantau Tomorrow Vision, held in January 2019 to which we invited government officials to discuss the opportunities and challenges of this important mega-project with interested members. We also set up the Ad Hoc Working Group for Lantau Tomorrow Vision under the Public Service Committee to study and provide expert opinions on relevant matters on a timely basis. Furthermore, in seeking deeper engagement with the public and the government, we sent 17 submissions to various public bodies on issues such as waste management, land policy and construction site safety.

To address the seminal changes occurring along the Belt and Road, we launched a series of talks about the countries of the Belt and Road Region. Our members had the opportunity to discuss about Belt and Road opportunities with representatives of the Consulate Generals of Hungary, Pakistan, Israel and Iran via talks held in consecutive months since August 2018.

We also put much effort in exploring the development of the GBA. On 21

February 2019, I was invited to attend the “Symposium on the Outline Development Plan for the Guangdong-Hong Kong-Macao Greater Bay Area” (粵港澳大灣區發展規劃綱要宣講會), co-organised by the People’s Government of Guangdong Province, the Government of HKSAR, and the Government of Macao Special Administrative Region. On the issue of mutual recognition of professional qualifications of engineers in the GBA, we maintained our dialogues with the Guangdong Provincial Association for Science and Technology and held meetings in both Hong Kong and Guangzhou to discuss the way forward. With a key focus on major areas such as innovation and professional services, the GBA will bring valuable opportunities to engineers in the years ahead. We also met with the Department of Housing and Urban-Rural Development of Guangdong Province (廣東省住房和城鄉建設廳) to explore the possibility of recognising the qualifications of Hong Kong construction enterprises and professionals in the GBA.

As you can see for the length of my report, this has been a very busy Session indeed, as both the Institution and our profession are called upon to navigate these very challenging times.

Being the HKIE President has been a humbling experience given the task at hand. But thanks to the unwavering support from Officers, Council Members, members and the Secretariat of the HKIE, I am more dedicated than ever to work hand in hand with all our members for the benefit and advancement of the Institution, the engineering profession, and the community.

I believe when engineers combine their talents, knowledge and creativity, there are no challenges too difficult to overcome and no problems too complex to solve.

If we can construct super-tall buildings, build long bridges over water and create new land in the sea, surely we can unite to ensure that our Institution, our profession and our engineers gain recognition for their ability to make a difference.

Ir Ringo YU Shek Man
President



● HKIE Connect: Happy Hour Gathering for Young Members