



秘書長報告

2020/2021

自去年九月獲委任為香港工程師學會秘書長，我已決心推動改革學會事務，能夠堅守這份信念，全因我深信，我們有能力做得更多、更好。在我這首份年度報告，欣然告訴大家，我這個信念是正確的。

工程師善於應付各種挑戰。然而，對抗2019冠狀病毒(新冠病毒)卻是一場截然不同的戰役。當學會年度如期展開時，疫情正在全球肆虐，而疫苗卻尚未面世，加上本地疫情升溫，在多項社交距離措施逐步收緊的情況下，學會設施亦須關閉。隨後一段時間亦只能維持有限度重開，不少會議及活動因而延期進行，直至學會制定出有效保障會員健康的措施後，才能恢復相關安排。

新冠疫情無疑對整體社會帶來衝擊，同時帶來改變的契機。疫情期間，不少上班族需

要在家透過網上工作，面對疫情所帶來的困難，工程師發揮一貫創新求變的專業精神，迎難而上，充分體現了學會本年度的主題：「相信 可 看見 - 創新 成 蛻變」(“Believing is Seeing - Innovation for Transformation”)。

全賴學會同仁和會員的共同努力，秉持專業和創新精神，讓我們的年度主要活動能順利舉行。去年九月，我們舉行了「Championing Innovation」年度活動啟動典禮。會長源 樑教授、工程師聯同多位在創科領域上擁有豐富經驗的會員共同制定了「工程師實踐創新創業路線圖」，並宣布成立「工程企業家平台」(Enginpreneurs Hub)，為會員提供支援，以實踐創新創科概念。

當疫情稍為緩和，我們分別在二零二一年三月和五月舉行了香港工程師學會迎新會。除了歡迎新會員外，我們亦頒發了「香港工程師學會 - 工程學優秀學生獎2019/2020」和「傑出工程學員獎2020」，並特別向加入學會五十年或以上的會員頒發證書。

此外，在二零二一年六月舉行的香港工程師學會周年典禮暨頒獎大會上，我們表揚了多位傑出工程師。學會非常榮幸邀請到香港特別行政區行政長官林鄭月娥女士為主禮嘉賓，以及醫院管理局主席范鴻齡先生為大會榮譽嘉賓。典禮上頒發的獎項包括「名譽資深會員」、「香港工程師學會榮譽大獎」、「會長特設成就獎」和「傑出青年工程師獎」，獲獎者分別為李焯芬教授、工程師，高華文教授、工程師，張鍾雄工程師，以及梁亦嵐工程師。

在印證榮譽的同時，我們更要籌劃未來。

為配合年度主題，學會舉辦「工程闖未來」創科博覽。我們將展覽活動和研討會移師到網上虛擬平台，再配合實體活動，向公眾展示香港工程界於創科的成就及最新發展。此外，我們還舉辦了為學會會員和大專生而設的 The Enginpreneurs Award 2021，比賽在線上線下同步進行，讓大眾透過觀看比賽，理解創意背後的概念，感受「工程」能帶來改變的力量，從中獲得啟發。

HKIE The Hong Kong Institution of Engineers Session 2020/2021 Council
香港工程師學會 2020 / 2021 年度理事會



• 二零二零至二零二一年度香港工程師學會理事會



• 第四十六屆會員周年大會

數碼化是大趨勢。故此，學會正努力為數碼化轉型做好準備，而疫情更驅使我們加快步伐。

早在疫情爆發初期，我們已提升現有的視聽設備及視訊會議系統“Zoom”，以確保網上會議及活動能順利舉行。更重要的是，我們完成了學會資訊科技系統的穩定性和完備性兩項研究，並制定出十五項數碼化改善計劃路線圖。學會將為此計劃斥資約一千五百五十萬港元，預計五年內完成，冀透過完善相關系統，為會員提供更優質的服務，包括會員申請、活動管理、優化網站等，並提升秘書處工作效率。在理事會的支持下，我們今年將開展多個項目，包括優化電腦網絡架構和系統設計。

除了推出學生會員電子會員證外，有關畢業生培訓計劃中所需要提交的培訓工作紀錄及專業評估筆試，理事會亦同意將其數碼化。此外，學會在周年大會投票中心，亦已用上電子登記系統。會員只需以會員卡輕觸讀卡器便可完成登記進行投票，大大縮短會員排隊等候時間，有效疏導人流。另外，學會月刊《Hong Kong Engineer》和會報《HKIE Transactions》已實現無紙化。兩份刊物均上載到學會的網站供免費閱覽，讓讀者能從共享知識中獲益。

在數碼化進程中，網上會議及研討活動已經成為新常態。我們在二零二一年上半年舉辦了多個網上專題講座，除有關大灣區工程發展機遇的主題外，還有一系列創科講座，

其中八場講座由「工程企業家平台」舉辦，另外六場為創科博覽前期活動。在創科博覽舉行期間，我們在網上安排了三場主題講座和十八場研討會，講題圍繞科技、建築、電機工程以及一些專項知識等，涵蓋不同範疇。學會各分部及事務委員會合共舉辦了數百場網上活動和技術考察，以科技打破地域界限，連繫世界各地的參加者。

對於應對氣候變化和研究可持續發展工作，為世界公民和工程師的共同目標。學會設立的專責小組 (Task Force on Promotion of Sustainable Development Goals) 舉辦了“Sustainable Development Goals: From an Engineering Perspective”網上講座和互動工作坊，探討實現可持續發展中工程師的角色。除此之外，除了提升工程師的專業性，建造事務爭端解決委員會成功申請防疫抗疫基金下的技能提升等額補助金計劃，讓我們舉辦多個培訓課程，加 工程師對解決建造事務糾紛的相關知識。

我們繼續積極加強課程評審和專業資格評核工作。繼二零一九年四月推行以「能力為本」的專業評核制度後，學會亦計劃於二零二二年四月開始推行由會員進行「能力為本」評核制度。我們會邀請外界專家顧問、專業界別顧問小組及相關委員會和專責委員會成員參與評核工作。另外，我們亦為發展局核實了超過五百名學會會員的資格以使用有關企業及會員申請防疫抗疫基金。此外，我們於年度與英國土木工程師學會續簽了專業資格的互認協議。



• 香港工程師學會頒獎典禮

我們深明與公眾分享專業意見的重要性。於年度內，學會向政府提交了八份意見書，涉及發展人工島以至廢物處置等議題。在疫情期間，學會適時回應傳媒查詢公眾所關注的衛生設備、室內通風及醫院設施等問題，以工程專業知識讓公眾釋除疑慮。年度內，我們共處理一百三十二則傳媒查詢，並獲報導一百四十七次。

學會亦再次榮獲「15年Plus同心展關懷」標誌，以表揚我們一直對關懷社區、員工和環境的貢獻。

過去數年，香港雖然面對不同的挑戰，但如諺語所言 - 黑暗總會過去，黎明總會到來。工程師擁有堅韌意志，能轉危為機，扭轉逆境。

變幻原是永恆，面對多變的未來，我們必須準備迎接新的挑戰。

首年擔任學會秘書長，有賴各位會員在此變革旅途中互相扶持，我深感欣慰。面對未來，我充滿信心，相信學會和香港將能展現新氣象。

秘書長
韓志強工程師



Chief Executive and Secretary's Report

Session 2020/2021

Since appointed Chief Executive and Secretary of HKIE about a year ago, I have been determined to champion change - for the sole reason that I do know we have the potential to do more and better. As I present my first report today, I am happy to say that my assessment has proved to be accurate.

Engineers may have been trained to deal with nature's challenges but fighting COVID-19 has been completely different, in a rather radical way. With the pandemic raging worldwide and no vaccines available yet, the Session began with a tightening of social distancing measures. As cases surged locally, our facilities were closed for weeks before re-opening with limited capacity and we were forced to postpone special meetings and events until we found a safe way to engage with our members.

Sending us at home and online, COVID-19 drove us to do what engineers excel when facing problems: we innovate. In a tragic twist of fate - and certainly not by design - the pandemic validated the theme of Session 2020/2021: "Believing is Seeing - Innovation for Transformation" (相信可看見 - 創新成蛻變).

Thanks to the innovative spirit of our colleagues and members, we managed to successfully host most of the key events and activities planned, starting with "Championing Innovation" in September last year. The ceremony saw the introduction of the "Innovation Roadmap for Engineers" prepared by President Ir Prof P L Yuen and a team of engineers with deep experience in innovation and the launch of the "Enginpreneurs Hub" to provide support for HKIE members in their innovation pursuits.



• Webinar on MTR New Projects - Opportunities and Challenges

Undeterred by the pandemic, we held the HKIE New Members' Reception and Prize Presentation Ceremony in both March and May 2021. In addition to welcoming new members, we awarded the HKIE Prize for Outstanding Engineering Students 2019/2020 and the Trainee of the Year Award 2020 and presented special membership certificates to members who have been with us for 50 years or more.

Awards were also given as part of The HKIE Annual Grand Ceremony cum Award Presentation. Held in June 2021 and featuring special guests including the Chief Executive of the HKSAR, The Honourable Mrs Carrie Lam Cheng Yuet-ngor and Mr Henry H L Fan, Chairman of the Hospital Authority, this special event saw Ir Prof C F Lee conferred "HKIE

Honorary Fellow" and Ir Prof Norman W M Ko awarded the "HKIE Gold Medal" while Ir David C H Chang and Ir Ivy Y L Leung received the "President's Award" and "Young Engineer of the Year Award" respectively.

While celebrating our past achievements is important, investing in our future is crucial.

"Engineering into Future" - the 2021 edition of the HKIE Innovation Expo, embodied the theme for the Session. We made the move to the virtual world to showcase innovative engineering solutions produced by engineers and students from Hong Kong, and enabled members of the public to celebrate winning contestants who received awards under "The HKIE Enginpreneurs Award 2021" for HKIE members and "The HKIE Enginpreneurs Award - Young Innovators" for tertiary students - both in recognition of their innovative efforts and to inspire our members and the public about the transformational power of engineering.

It's not realistic to talk about the future without addressing the defining trend of our age: digitalisation. While the HKIE may have to catch



• Donation of Artworks and Books by Ir Prof Norman Ko, the HKIE Gold Medalist



• Presentation of Honorary Fellow 2020 to Ir C T Wan at the HKIE Award Presentation Ceremony

up in embracing the digital age, the pandemic dramatically accelerated the pace of our digital transformation.

As soon as COVID-19 struck, we secured Zoom licences and upgraded our audio-visual equipment to ensure that we could deliver our learned society events and programmes online. On the more major front, after completing two studies on the robustness and adequacy of our IT systems, we introduced a digitalisation roadmap featuring 15 improvement projects. To be completed in the coming five years at a cost of about HK\$15.5 million, the roadmap will drastically improve the reliability of our system and the efficiency of the Secretariat, thus allowing the HKIE to better serve members across areas like membership application, learned society event management, website overhaul etc. With the Council's endorsement, we will start working on a number of more basic projects this year, beginning with enhancements to the network architecture and system designs.

In addition to introducing an Electronic Membership Card for Student Members, the Council also approved the use of electronic means to complete Scheme "A" training logbook and carry out Written Exercise for the Professional Assessment. We also launched an e-Registration system for our Annual General Meeting. Designed to facilitate registration, improve people flow and save time for our members, the system enabled members to simply wave their HKIE membership card over a card reader at any registration stations in the voting centres for elections. We are also pleased to confirm that both the *Hong Kong Engineer* and *HKIE Transactions* are now paper-free. Available online, both publications are now accessible not only to our members, but to everyone as we believe knowledge sharing matters more than ever.

Our drive to digitalise also transformed our professional development programme.

Moving our activities online, in addition to webinars on developments and engineering opportunities in the Greater Bay Area, we presented a series of webinars dedicated to innovation in the first half of 2021, including eight that were conducted under the EP Hub and six delivered in preparation of the Innovation Expo, during which a further three keynotes and 18 online seminars were presented, covering themes ranging from technology and construction to electrical engineering and specialised engineering. Our Divisions and Committees also delivered literally hundreds of events and technical site visits online, using technology to reach thousands of participants not only in Hong Kong, but around the world.

Meanwhile, with issues like climate change and sustainability high on the agenda among engineers and global citizens, our Task Force on Promotion of Sustainable Development Goals initiated a webinar entitled "Sustainable Development Goals: From an Engineering Perspective" followed by an interactive workshop to help engineers reflect on their role in achieving sustainability. To raise engineers' professionalism, the Construction Dispute Resolution Committee successfully applied for the Matching Grant Scheme for Skills Upgrading under the Anti-epidemic Fund to organise training courses to further promote knowledge on dispute resolutions by offering a preferential tuition fee for HKIE members.

We continued to work hard on improving our qualification and accreditation process. Further to the launch of the competence-based system for Professional Assessment (Corporate Members) in April 2019, we continue to work on the development of the competence-based approach in the Assessment for Associate Membership with the timeline of implementation in April 2022. External consultants, Discipline Advisory Panels and relevant committees and boards are being engaged in this task. We also assisted firms and members to secure subsidies under the Anti-epidemic Fund by verifying the application of more than 500 HKIE members on behalf of the Development Bureau. In this Session, we also renewed our Reciprocal Recognition Agreement with the Institution of Civil Engineers.

Conscious of the importance of sharing our professional insights with the public, we made eight submissions to the government

on issues ranging from waste disposal to the construction of artificial islands. We also promptly responded to media enquiries, as the engineering knowledge we hold will surely address public concerns arising in the time of COVID-19 on matters like sanitary system designs, indoor ventilation and hospital facilities etc. We had dealt with 132 enquires from the media, publishing and broadcasting a total of 147 responses.

Last but not least, we are honoured to have been awarded the "15 Years Plus Caring Organisation Logo" in recognition of our efforts to care for the community, our employees and the environment.

Confronted with the impacts to Hong Kong in the last few years, it is not an overstatement that life has been difficult for many people. But as the old saying goes, it is always darkest before the dawn.

Tough times would not last forever, especially for people as resilient as engineers. There is nothing constant except change, so it is inevitable that tomorrow will bring yet a set of new challenges.

Still, after what I have experienced in my first year as Chief Executive and Secretary, I take comfort in knowing that I can count on all our members to support each other and our city in this journey of rejuvenation and change.

Ir HON Chi Keung
Chief Executive and Secretary