秘書長報告
2018/2019

在本年度主題 ——「新視野 新動力」的推動下，香港工程師學會過去一年發揮新思維，積極向前邁進。學會擁有逾七十年的悠久歷史，其持續成功有賴我們一直努力不懈為學會注入年輕朝氣和活力，開創新意念。在學會不斷成長的過程中，我們不僅只求證明自己，更渴望持續提升和迎接新的挑戰，邁向更美好的將來。

這股動力為學會的發展增添力量。當中一項重要的發展，是我們於二零一九年四月落實能力為本的專業評核和工程畢業生培訓計劃(「A」計劃)。此成果有賴能力為本專業評核計劃工作組和相關委員會及小組的努力和支持。能力為本專業評核制度訂明四大範疇的能力，包括應用工程知識、開發技術方案、管理工程項目及保持專業觸覺，為尋求專業認可的工程師提供標準，以獲取學會正會員資格。

我們亦詳細檢視學會的架構和工作程序，以強化學會的運作及管治，提出整合建議。理事會經審議及通過後，將人力資源事務委員會和財務及投資事務委員會納為管理事務委員會旗下的小組委員會，並向管理事務委員會負責；公眾服務事務委員會和公共關係事務委員會則合併為新的公共事務委員會。我們亦成立了建造事務爭端解決委員會，推動專業判決、仲裁、調解及其他解決爭端方式，以及建立特別是涉及工程專業的替代訴訟解決爭端機制。

隨著數碼科技日益發展，學會會員的閱讀習慣亦逐漸轉變。為應對此新趨勢，學會月刊《香港工程師》的電子版現正進行優化。學會亦接替出版以季刊形式發行的學會會報 *HKIE Transactions*，並設立電子資料庫，把過往二十多年的會報開放予訂閱期刊的會員閱覽。藉著數碼轉型策略，不但能滿足會員的新需求，亦有助學會減少「碳足跡」。

與此同時，全球化亦對工程行業帶來重大的影響。我們一直致力提升學會會員的國際地位，並確保他們的專業資格在全球各地獲得認可。為此，我們在香港成功舉辦了國際工程聯盟大會 2019。該大會有來自三十七個國家和地區共二百多名代表出席，他們皆致力為工程專業確立國際認可的教育標準。我們還主辦了《首爾協議》大會 2019，學會副會長源栢樑博士、工程師於會議期間當選《首爾協議》副主席。自二零一九年六月起，學會亦成為亞洲工程教育認證網絡（Network of Accreditation Bodies for Engineering Education in Asia）的正式成員，該網絡由中華台北、印度、日本、韓國、馬來西

國際工程聯盟大會 2019 開幕禮

亞、巴基斯坦、新加坡、泰國及菲律賓的工程教育認證機構組成。

年輕人擁有無窮創意，學會一直努力吸引他們加入工程行業，以培養未來的工程人才。我們亦已啟動第二階段的香港工程師學會「工程先鋒計劃」，由資深及年輕工程師組成的 STEM 伙伴團隊接觸了來自十七所中學超過一千五百名中學生。除製作 STEM（科學、科技、工程及數學）教材外，我們還為學生們舉辦多項比賽，並透過不同渠道，例如在 Classified Post 及 JobsDB 等媒體上分享關於工程專業的資訊、在「教育及職業博覽 2019」參展，以及擴大學校大使計劃等，堅持不懈地推廣工程專業。其中，學校大使計劃本年度向三十三所學校約三千四百五十名學生提供講座。

我們知道與公眾接觸對進一步塑造工程專業正面形象十分重要。學會本年度舉辦名為「工程師體驗巡禮」（The HKIE Engineer Day）的重點活動。活動於二零一九年四月十三日舉行，為公眾及有意發展工程事業的年輕人介紹工程專業。學會亦為小學生製作「何謂工程師？」(What is Engineer?) 的教學簡報。除此之外，我們還參加了創新科技署舉辦的「創新科技嘉年華 2018」，各分部代表以「創科生活 • 智慧未來」為主題發表不同的專題演講。另外，我們本年度接獲超過二百七十則傳媒查詢，並獲報導二百一十二次。

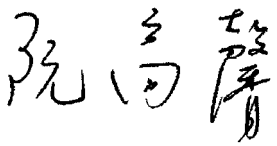
在知識無分疆界高速傳遞的世代中，工程專業資格的認可是達致成功的關鍵。香港工程師學會是《亞太經合組織工程師協議》的會員，該協議確認多個亞太經合組織經濟體的工程師達到相約的專業水平。二零一八年八月，亞太經合組織工程師協調委員會設立亞太經合組織工程師資料庫，在香港名冊內的亞太經合組織工程師亦獲邀加入該資料庫，讓公眾查閱。這將有助促進亞太經合組織工程師在不同成員所屬地域——包括澳洲、加拿大、中華台北、印尼、日本、韓國、馬來西亞、紐西蘭、秘魯、菲律賓、俄羅斯、新加坡、泰國及美國等地的流動性。

● 廣東省科學技術協會到訪

學會致力讓會員的能力獲得充分認可，積極加強認證工作。「果效為本」評核標準自二零一二年起實施，第一期的工學士學位全面學術評審已經於二零一九年完成。為檢討學會現時的認證機制，我們成立了工學士學位評審工作組。此外，工程學理學碩士學位（理學碩士）評審專責小組收集了兩大持份者——香港多所大學及香港工程師學會二十一個專業界別的意見，為將於二零二零年進行的先導研究提供基礎。另外，參加香港工程師學會結構界別資歷考試的人數創十年新高，達五百一十六人。

本年度學會獲頒「連續 15 年同心展關懷標誌」，以表揚我們一直對關懷社群、關心員工及愛護環境的承擔。

儘管面對重重挑戰，學會於本年度繼續取得佳績。本人謹此感謝整個秘書處團隊及學會全體會員的貢獻。我們必須繼續煥發新活力，增強我們的專業能力，同時發揮克服困難的精神，充分把握行業機遇。



秘書長
阮高馨

● 香港工程師學會「工程先鋒計劃」

● 工程師體驗巡禮

Chief Executive and Secretary's Report
Session 2018/2019

"New Perspective New Momentum", the Session's theme, inspired the Institution to embrace a growth mindset throughout the last 365 days. While the Institution's long and rich history spans more than 70 years, the continuing success of our journey depends on our ability to maintain the youthful spirit needed to ignite new ideas. By adopting a growth mindset, we do not merely keep proving ourselves, we cultivate a desire to continue improving and challenging ourselves to go a step further.

The growth mindset animating the Working Group on the Competence-based Project and the relevant Committees and Panels enabled the Institution to successfully launch the Competence-based Professional Assessment and Scheme "A" Training in competence-based format in April 2019. The competences in four broad areas — Applying Engineering Knowledge, Developing Technical Solutions, Managing Engineering Work and Upkeeping Professional Acumen — sets the standards for engineers seeking professional recognition as Corporate Members of the Institution.

By taking a close look at the organisational structures and processes, we completed an extensive review of our organisation to re-engineer our operations and further enhance the governance of the Institution. Pursuant to a proposal approved by the Council, both the Staff Resources Committee and the Finance & Investment Committee have become sub-committees responsible to the Management Committee, while the Community Service Committee and the Public Relations Committee merged to form the new Public Service Committee. We also established a Construction Dispute Resolution Committee to oversee matters relating to adjudication, arbitration, mediation and other forms of dispute resolution, as well as the development of alternative dispute resolution mechanisms, in particular relating to the engineering profession.

The digital revolution goes unabated and even the reading habits of our members are changing. To adapt to this new reality, the Institution is developing an enhanced digital version of *Hong Kong Engineer*, our monthly professional journal. We have also taken over the publishing of *HKIE Transactions*, a quarterly periodical, and have made available online more than 20 years of archives of this publication for subscribing members. In addition to meeting the new requirements of our members, this digital strategy will help reduce the Institution's carbon footprint.

Globalisation is another seminal trend impacting the profession. We are doing our utmost to raise the international profile of our members and ensure that their credentials get formally recognised globally. To this effect, we successfully held the IEAM Meetings 2019 in Hong Kong with more than 200 delegates from 37 countries and regions dedicated to devising international educational benchmarks for engineers. We also hosted the Seoul Accord General Meeting 2019 and we are pleased to report that our Vice President Ir Dr P L Yuen was elected Deputy Chair of the Seoul Accord during the meeting. We are also pleased to become a Full Member of the Network of Accreditation Bodies for Engineering Education in Asia (NABEEA) starting from June 2019, a network of accreditation bodies with members in Chinese Taipei, India, Japan, Korea, Malaysia, Pakistan, Singapore, Thailand and the Philippines.

As young people are a major source of innovative ideas, we continue to make sustained efforts to engage and nurture the engineers of the future. We kick-started the second phase of the HKIE Engineer Cadet Club Programme and a team of STEM Buddies composed of experienced and young engineers have connected with over

New Members' Reception

Education and Careers Expo 2019 (Image courtesy of Hong Kong Trade Development Council)

Presidential Visit to Canada

1,500 secondary school students from 17 participating secondary schools. In addition to developing STEM Education Kits, we organised competitions for school students and remain committed to promoting engineering through activities ranging from the publication of engineering stories in media such as Classified Post and JobsDB and the hosting of our annual Education and Careers Expo 2019 to the expansion of our School Ambassadors Programme, which visited 33 schools and delivered talks to 3,450 students.

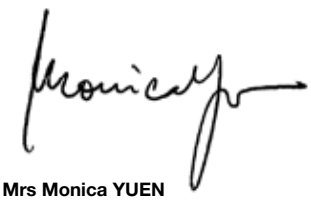
We are also conscious of the need to connect with the public to further develop the image of the profession. Our signature event remains The HKIE Engineer Day. Held on 13 April 2019, it helped demystify the profession both for the public and for young people keen to explore a career in engineering. In addition to creating a "What is Engineer?" presentation for the benefit of primary school students, we also sent representatives of our various Divisions to deliver seminars on engineering and "Innovate for a Smart Future" as part of the InnoCarnival 2018 organised by the Innovation and Technology Commission. In this Session, we also handled more than 270 media enquiries, publishing and broadcasting a total of 212 responses.

Formal recognition remains a key factor for success in a world without borders in which knowledge travels at digital speed. The Institution is the authorised member of the Asia-Pacific Economic Co-operation (APEC) Engineer Agreement, an agreement that recognises the "substantial equivalence" of professional competence in engineering throughout several APEC economies. With the establishment of the APEC Engineer Databank by the APEC Engineering Co-ordinating Committee in August 2018, APEC Engineers who are on the Hong Kong Register have been invited to be included in this publicly accessible and centralised databank of registered APEC Engineers. This will be instrumental in facilitating the mobility of APEC Engineers among the authorised members like Australia, Canada, Chinese Taipei, Indonesia, Japan, Korea, Malaysia, New Zealand, Peru, Philippines, Russia, Singapore, Thailand and the United States.

We deepened our accreditation initiatives as we seek to help our members get recognised to the full extent of their competence. The outcomes-based accreditation was implemented since 2012 and the first cycle of full accreditation of engineering degree programmes completed in 2019. In order to review our current accreditation practices, we formed a Working Party on Accreditation Exercise for Engineering Degree Programmes. Further, the Task Force on the Accreditation of Master of Science Degree Programmes under Engineering Fields (MSc programmes) collected the views from two major stakeholders, the universities in Hong Kong and the 21 HKIE Disciplines as it continued laying the groundworks for a pilot study to be conducted in 2020. In addition, a record high 516 applicants completed the HKIE Structural Examination, the highest number in its 10-year history.

We are proud to have been awarded the "15 Years Plus Caring Organisation Logo" in recognition of the long-term commitment of the Institution's caring for the community, employees and the environment.

Despite the challenges, the Session has been marked by significant achievements. I want to thank my team as well as all our members for their contribution. We must continue to act and think younger as we strive to rejuvenate our profession, reinforce our competence and unlock our ability to overcome difficulties and make the best of the opportunities offered by our profession.



Mrs Monica YUEN
Chief Executive and Secretary

Presidential Address 2018/2019