

HKAES President's Report 2014-2015

I am glad to report that we completed 2 major projects with success in 2015. The first one is the public policy research study of building maintenance policy with particular reference to residential seepage. The second is organizing with the Chinese Academy of Engineering (CAE) the Joint Summit 2015 - Innovation and Technology Industry in Hong Kong and PRD. Other activities in the year are listed below.

Completion of the First CPU-funded Public Policy Research Project

At the last AGM I reported the commencement of the first CPU-funded project "Enhancing Policy on Building Maintenance: Solving the Residential Seepage Problem". The study aims to improve the current practice of seepage investigation in order to enable the Government to return to the fundamental policy paradigm that owners are responsible for building maintenance. As Principal Investigator of the project, I am pleased to report that all the 4 specific project objectives were achieved and all original data archived. Follow up actions have been proposed in the project recommendations. The unused funds will be returned to CPU comprising the difference between the actual project expenditures and the receivables for the PI and the Academy overheads. The Completion Report is ready for submission to CPU pending the auditor's report on the accounts. A summary of the Final Report has been posted on the Academy web page since November 2015.

The completed project is an engineering contribution to the implementation of 1 Country 2 Systems. Investigation of seepage in residential buildings is traditionally the responsibility of owners. Democratic development after the implementation of One Country Two Systems has necessitated the government to take up a greater facilitator role. The fundamental policy issue is to what extent government should be involved in order to optimize the policy of building administration, innovation and technology, and active aging. Engineering research is required to identify the commensurate technical standards. As residential seepage is representative of many social-technical problems encountered in building maintenance and other similar issues involving human-works interaction, the methodology developed in the seepage project may be useful in these other policy studies.

The second PPR study proposal addressing energy policy has been prepared by Prof CC Chan and submitted in November 2015 for consideration by CPU.

CAE-HKAES Joint Summit 2015

The Academy and the CAE jointly organized the CAE-HKAES Joint Summit 2015 - Innovation and Technology Industry in Hong Kong and PRD on 13-14 April 2015 in Hong Kong. The Financial Secretary of the HKSAR officiated the opening ceremony. The President gave an opening remark. Keynote speakers include the President of CAE, Prof. Zhou Ji, the Vice-Minister of Ministry of Science and Technology of China, Prof. Hou Jian Guo and the Group Chairman of Fung Group, Hong Kong, China, Dr. Fung Victor Kwok King. All speakers and panelists were leaders of government, industry and academia including four from Canada, Korea, Singapore, and Taiwan. The President of HKUST, Prof. Chan Tony Fan Cheong delivered a Banquet Speech.

Over 220 delegates attended the Joint Summit. The Proceeding is now available. A working group was appointed with Prof. Joseph H W Lee as chairman to propose follow-up actions.

The Joint Summit was hosted by The Hong Kong Polytechnic University. Sponsoring and supporting institutions included 4 other universities and 4 major engineering organizations.

CAE-NAE-RAE Grand Challenges Summit 2015 - Student Day Competition

Fellows of the HKAES were invited by CAE to attend the CAE-NAE-RAE Grand Challenges Global Summit 2015 held on 15th-16th September in Beijing. HKAES was invited to form a Joint Universities of Hong Kong Team as one of the 5 Chinese teams to participate in the student competition held on 14th September in conjunction with the CAE-NAE-RAE Grand Challenges Summit 2015. Prof. Joseph H W Lee was appointed the principal organizer of the HK team. The other competition teams were five each from US and UK.

The 15 teams were judged on each team's presentation of a proposal of a business plan for a start-up based on an idea/concept related to NAE Grand Challenges for Engineering. The Hong Kong Team won a third prize

The Eleventh Guanghua Engineering Science and Technology Award

The Academy received an invitation from CAE to be responsible for nominating candidates from Hong Kong SAR for the **Eleventh Guanghua Engineering Science and**

Technology Award. A Nomination Committee was appointed with SVP Dr. Andrew Chan as chairman. Nine universities/organizations were invited to submit nominations. In addition, a one page colour announcement was published in Vol. 42, September 2015 of the monthly Journal of HKIE.

On recommendation of the Nomination Committee, the Academy nominated 5 candidates for the Engineering Award and 3 for the Youth Award. The nomination forms together with supporting materials were submitted to the Office of the Eleventh Guanghua Engineering Science and Technology Award in Beijing on 28th October 2015.

Dalian Forum on Smart City and Creative Economy, 11th-12th October 2015

At the invitation of CAE member Prof. Wang Zhongtuo of Dalian University of Technology, a HKAES delegation including 3 Fellows and 2 other HK experts attended a Forum on “Smart City and Creative Economy” held in Dalian on 11th October 2015. Around 100 delegates from industry, government and academia attended the forum to exchange views on smart city development. The Forum was sponsored by the Dalian Science and Technology Bureau, and organized by Dalian University of Technology.

The Forum included a 1-day visit to for HKAES delegates to 3 high tech establishments including a Numerical Control Co., a taxi central management centre and a Hospital.

Invitation to Visit Shanghai

The Central Government Liaison Office in HK invited HKAES to visit Shanghai to exchange views with organizations responsible for planning and development with particular reference to smart city development. The visit is planned for 4 days 3 nights in early January 2016. Visits to certain advanced manufacturing establishments and hi-tech application and applied research centres will also be included. This is an opportunity for HKAES to explore possible collaboration with suitable mainland organizations.

New Fellows, Council Meetings and Academy Dinners

Five new Fellows were elected at the 20th AGM, including 2 practicing engineers. The current roll of membership is 65.

The Council met 4 times during the year. A New Fellow's Dinner was held after the first Council meeting. Academy Dinners were held after the last 3 Council meetings, each attended by over 20 Fellows.

This is my second year to serve as President. Having fulfilled my primary object of introducing the new approach to public policy research through the first CPU-funded project, I shall retire at this Annual General Meeting. Although the President may hold office for 3 years in accordance with the Articles of Association, it is in the interest of the Academy to accelerate the introduction of other new initiatives by the next President. I would like to thank all the officers, Council members, Committees, project teams and all Fellows for their cooperation and support during the two years of my Presidency. I also wish my successor continued success.

Prof. Y L Choi

President

Hong Kong Academy of Engineering Sciences

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