

Report from Divisions and Other Committees 2015/2016



Ir David C L TONG
Chairman of
Aircraft Division



Ir Prof WANG Min
Chairman of
Biomedical Division



Ir TSUI Wai Tim
Chairman of
Building Division



Ir CHEUK Kim Tang
Chairman of
Building Services Division



Ir Victor K Y LO
Chairman of
Civil Division



Ir Keith K H MA
Chairman of Control,
Automation &
Instrumentation Division



Ir Dr CHAN Wai Tai
Chairman of Fire Division



**Ir Patrick Archambaud
CHAO**
Chairman of
Geotechnical Division



Ir Dr Vincent T Y NG
Chairman of Information
Technology Division



Ir Dr Paul H Y TSUI
Chairman of Logistics &
Transportation Division

September 2015

Biomedical Division:

The "Overseas Training Course to Israel on Medical and In-Vitro Diagnostic (IVD) Devices" was arranged for 11 participants on 5-11 September 2015 to share knowledge on advanced IVD technology and innovations, related technology trends and regulatory requirements, etc. Technical visits to Tel Aviv University, Weizmann Institute of Science and the Ministry of Health were also organised for the delegation during the trip.

Civil Division:

Starting with the "Care for the Elderly in the Community 2015" activity this month, the Division ran a series of community service programmes throughout the Session, including an outing with children, a fundraising marathon, a Wu Zhi Qiao workshop on footbridge design

and the "See-vil" Engineering Programme. The programmes were jointly organised with the Education Bureau to encourage our younger generation to learn more about the construction industry and how the work of civil engineers relates to our daily life.

Mechanical, Marine, Naval Architecture & Chemical Division:

Fifteen members of the Division participated in a community service visit to an elderly home during the Mid-Autumn Festival.

Safety Specialist Committee:

The Honorary Officers of the Committee visited Schneider Electric and the Chartered Association of Building Engineers (CABE) from 28 September to 3 October 2015. A Memorandum of Understanding to promote safety engineering and enhance collaboration was signed between CABE and the Committee in the UK.

October 2015

Electrical Division:

More than 300 participants attended the 33rd annual symposium. With "Drive for Efficiency" as the theme, the symposium focused on improvement in electrical power system performance, energy efficiency enhancement for driving systems, and technological developments related to electric vehicles and charging infrastructure. The opening address was given by Ir Thomas Chan, Vice President of the HKIE. Other speakers included Prof T S Zhao, The University of Hong Kong and Ir Prof S L Ho, The Hong Kong Polytechnic University. Eight papers were also presented at the symposium covering power system, regulatory platform, mandatory energy efficiency labelling, new types of eco-friendly electric vehicles and EV charging infrastructure, electric elevator modernisation, E&M system enhancement for railway systems, and future public transportation.



Ir CHAN Ping Kee
Chairman of
Electrical Division



Ir Dr TSANG Kim Fung
Chairman of
Electronics Division



Ir LO Pak Cheong
Chairman of
Environmental Division



Ir Edmond W M FONG
Chairman of Gas & Energy
Division



Ir HO Sau Chiu
Chairman of
Manufacturing &
Industrial Division



Ir Dr Joseph W J CHI
Chairman of
Materials Division



Ir CHENG Yeung Ming
Chairman of Mechanical,
Marine, Naval Architecture
& Chemical Division



Ir Dr Alain K L LAM
Chairman of
Nuclear Division



Ir Ken K S NG
Chairman of Structural
Division



Mr Derek L Y MAN
Chairman of Associate
Members Committee

Manufacturing & Industrial Division:

A total of 50 tertiary students studying related subjects participated in a series of technical visits and seminars organised under the Young Engineers Programme from October 2015 to April 2016, which aimed to enable them to understand the path to becoming a professional engineer and foster ideas relevant to their career/professional development.

Safety Specialist Committee:

The Joint Safety, Health and Environmental Seminar 2015 was jointly organised by CLP Power Hong Kong Ltd, MTR Corporation, Civil Engineering and Development Department, Environmental Protection Department, Highways Department and the HKIE to promote safety, health and environmental issues in Hong Kong. Ir Dr Jeffrey Yung represented the HKIE to present a topic on "Health and Safety in Facility Management".



Ir Aldows H C TANG
Chairman of Authorised
Person/ Registered
Structural Engineer/
Registered Geotechnical
Engineer Committee



Ir Dr LAU Kwok Cheong
Chairman of Safety
Specialist Committee



Ir Kenneth K W CHEUNG
Chairman of Young
Members Committee

November 2015

Information Technology Division:

A group of 20 IT professionals and HKIE members led by the Division Chairman attended classes at Zhejiang University. Topics covered in these classes include eCommerce development in the Mainland, opportunities presented by the Belt and Road initiative and traditional Chinese culture and management techniques. A site visit to the Hangzhou High Level Overseas Innovation and Entrepreneur Centre was also arranged.

Logistics & Transportation Division:

The Division and the Chartered Institute of Logistics and Transport in Hong Kong co-organised a two-day course in “Law of Contract” with the assistance of the Hong Kong Arbitration Centre. The course attracted 250 participants.

Nuclear Division:

Co-organised with the Hong Kong Nuclear Society, a technical visit to nuclear organisations and facilities in Beijing was arranged. The 16-member delegation visited the China Nuclear Energy Association, the Chinese Nuclear Society, the High Temperature Gas-cooled Reactor of Tsinghua University and the China Experimental Fast Reactor of China Institute of Atomic Energy in Beijing, gaining an understanding of the latest technical advances and the national nuclear programme.

Young Members Committee:

A total of 40 members joined the YMC delegation to Yunnan between 29 November 2015 and 6 December 2015.

December 2015

Logistics & Transportation Division:

The technical seminar on Electronic Proof of Delivery System (ePOD) presented by Mr Owen Leung of Autotoll Limited was held to provide participants with insight into the latest mobile developments in fleet management and the practical requirements and constraints of ePOD. Around 40 participants attended the seminar.

Nuclear Division:

Around 40 participants attended a seminar on “Quality Living with Fusion Plasma Technology and Innovation” held by the Division, to learn about applications of plasma technology in material treatment, food sterilisation, air quality control and transportation by means of different ionisation systems. The seminar was presented by Ir Dr Herman Tsui.

January 2016

Civil Division:

The Division organised two delegations to Singapore for engineering students and young engineers. The delegates visited major infrastructure projects in Singapore. Ir Prof C K Lau, Past President of the HKIE, also joined the Student Overseas Delegation to Singapore.

Safety Specialist Committee: SSC celebrated its 21st anniversary with more than 200 guests at YMCA Hong Kong. Ir C K Hon, Permanent Secretary for Development (Works) was the guest of honour on the occasion. Representatives of various HKIE Divisions, universities and professional associations in Hong Kong participated in the event, during which an award presentation for a student project competition was also successfully held.

Structural Division:

The annual seminar of the Division serves to keep fellow members abreast of the latest development in the structural engineering field. The theme this year was “Structural Excellence – from Research to Application”. Prof Peter Mathieson, Vice Chancellor of The University of Hong Kong, was the guest of honour on the occasion, which attracted the attendance of 300 participants.

March 2016

Building Division:

The 15th Building Division annual seminar, “Challenges of Building Development in Metropolis”, offered a constructive platform for professionals and industry practitioners to exchange views, experience, knowledge and innovative design that encourage sustainable and innovative building projects. Guests of honour and speakers included Ir Dr the Hon W K Lo, the President, Mr Eric Ma, Mr Stephen Cheng, Dr Benny Chow, Ir Anthony Chiu, Mr Marco Wu, Ms Ada Fung, Ir S P Chin, Mr Daniel Lam and Ir K K Kwan. The seminar was well-received by some 250 participants.

Civil Division:

The Division organised an exchange camp to three northeast provinces in Mainland China for young engineers. The delegates visited major infrastructure projects that were under way, including high-speed rail projects and bridges. They appreciated the opportunity to widen their knowledge horizons through interactive exchange sessions with industrial and university experts. Ir Prof C K Lau, Past President of the HKIE, also joined the exchange camp.

Geotechnical Division:

The annual dinner of the Division was well-attended by 320 guests and the guest of honour was Ir Kevin Poole of the Hong Kong Airport Authority. The event provided an opportunity for geotechnical professionals and guests to meet socially in a pleasant and relaxed atmosphere.

Mechanical, Marine, Naval Architecture & Chemical Division:

The Young Inventor Competition was organised again in 2016 to give secondary school students an opportunity to show their engineering creativity. This year, 250 participants were required to design and build a solar landing craft for delivering ping-pong with a standard photovoltaic module, motor and turbine.

Structural Division:

The Structural Excellence Award was organised each year to promote excellence in structural engineering and the achievements of structural engineers. To honour academia's contribution to the engineering industry, academic research projects were included as a new category of the Structural Excellence Award this year. The judging panel comprised members from both academia and industry and was responsible for assessing each submission based on the submitted documents, site visits and presentations by the participants.

Young Members Committee:

A 16-member delegation visited Russia between 19 March 2016 and 27 March 2016. The President also joined the overseas delegation as one of the advisors.

April 2016**Building Services Division:**

The Division and The Hong Kong Polytechnic University jointly organised a one-day seminar entitled "BIM and Sustainability Updates". The seminar covered various topics related to BIM and its applications, practice and experience sharing.

Electrical Division:

The Energy Innovation Project Competition has been organised by the Division since 2009 to provide an opportunity for senior secondary students to propose and implement innovative projects for energy efficiency initiatives and to promote energy efficiency within the community. More than 300 senior secondary students from around 80 schools entered the Competition. The panel of judges comprised HKIE members and various parties from the utilities, government departments, schools and universities. The prize presentation ceremony for the Competition was held in June 2016.

Electronics Division:

The fourth annual symposium was held at the Hong Kong Science and Technology Park. With "Smart City – Cliché or Challenge?" as the theme, this one-day event attracted more than 200 participants. Keynote speakers included the Hon Charles Mok and Ir Dr the Hon W K Lo and the closing remarks were given by the President.

Environmental Division:

The Division's annual forum, entitled "Hong Kong's Role in Low Carbon Development: Challenges and Way Forward", was held to highlight key issues related to climate resilience, development of low-carbon infrastructure, urban mobility and carbon pricing and market. The keynote speakers included Mr K S Wong, Ir Dr the Hon W K Lo and Prof Zhou Dadi. The forum was well-attended by 300 participants.

Fire Division:

The 8th annual symposium, entitled "Fire Risk Management in Modern Cities", was held at the Hong Kong Convention and Exhibition Centre. Ir Dr the Hon W K Lo gave an opening speech as the guest of honour on the occasion. Prominent speakers from overseas, Asia Pacific and Mainland China were invited to share their experiences and insights with the participants.

Manufacturing & Industrial Division:

The Division gala dinner 2016 was attended by 160 participants with Ir Dr the Hon W K Lo being the officiating guest and Prof Lu Jian, Vice President of City University of Hong Kong, as the keynote speaker. The gala dinner brought together people from industries, product/process developers, researchers, academics and those interested in innovation and technology. It provided a platform for manufacturing and industrial engineering professionals to network with each other, exchange views and share experience.

Materials Division:

The Division held a technical seminar on "Carbon Footprint of Steel Reinforcing Materials in Hong Kong". Speakers included Dr James Wong, Ir Richard Lee, Mr Jake Chan and Mr Matthew Lai.

May 2016

Aircraft Division:

The annual lecture dinner was well-attended by 300 members of the Division and industry. The keynote speaker, Mr S M Yau, Under Secretary for Transport and Housing, emphasised the government's commitment to develop talent for the industry by establishing the Civil Aviation Training Academy in his speech. The lecturer, Ir Derek Cridland, delivered a talk on "Asian Aviation Growth – Are You Ready?" to inspire young engineers by sharing the unique projects in his engineering career.

Biomedical Division:

The Division held a seminar entitled "An Advanced Design of Non-radioactive Image Capturing and Management System for Applications in Non-invasive Skin Disorder Diagnosis". During the seminar, the speaker, Ms Carol Liu, Consultant in Biomedical Engineering of the Hong Kong Productivity Council (HKPC), introduced the diagnostic rule of skin cancer and how the patented technology from HKPC helps diagnose skin cancer in a more reliable and efficient way. The developing process, from concept to commercialisation of the award-winning new medical technology, was also demonstrated.

Building Division:

The annual dinner of the Division has always been well-attended by academics and professionals of the building and construction industry. It has become one of the most significant occasions organised by the Division, providing a platform for the exchange of views and insights into building and infrastructure trends. Around 450 members attended the annual dinner this year. Mr Paul Chan, Secretary for Development of the HKSAR Government, was invited to be the guest of honour.

Control, Automation & Instrumentation Division and Associate Members Committee:

A technical seminar on industrial automation technologies was jointly organised by Control, Automation & Instrumentation Division and Associate Members Committee to share with members the latest automation and control systems and solutions.

Gas & Energy Division:

A 16-member delegation to South Korea was organised. The participants visited the Sudokwon Landfill Site, LNG Terminal, GS E&C Innovation School, Rinnai Korea and Samsung Delight. In the same month, the Division held its Annual General Meeting cum annual dinner. More than 80 guests attended the annual dinner, including the President.

Materials Division:

A total of 90 participants and guests attended the annual dinner of the Division, including Ms Ada Fung, Deputy Director (Development & Construction) of the Hong Kong Housing Authority.

Nuclear Division:

The Division held its Annual General Meeting and technical seminar on "Hualong One and its development". Mr Zheng Hua was invited to make a presentation on the latest nuclear power developments in the world and in China and, in particular, the development programme for Hualong One, the third-generation pressurised water reactor design jointly developed by the China General Nuclear Power Group and another nuclear corporation in China. The seminar attracted an attendance of 50 participants.

June 2016

Environmental Division:

Launched in Session 2015/2016, the Job Shadowing Programme is an ongoing initiative to arouse the interest of young people in the environmental discipline and enhance their environmental awareness. The Division has partnered with various organisations/companies, namely CLP Power Hong Kong Ltd, Hong Kong Productivity Council, Hongkong Electric Co Ltd, and Hong Kong and China Gas Co Ltd, to offer the programme to around 70 tertiary and secondary school students.

Geotechnical Division:

With the theme of "Reclamation: Challenges and Beyond", the Division's 36th annual seminar provided a platform for academia, designers and practitioners to gather together and share experience in the design and construction of reclamation works acquired over the last two decades. The seminar was well-attended by 646 participants. Ir C K Hon, Permanent Secretary for Development (Works), was the guest of honour at the event.



Group photo of BD Division Committee members at The HKIE 40th Anniversary Sports and Family Fun Day (BD)

The new and outgoing Chairmen of AC Division and guests (AC)



Ms Carol LIU, Consultant in Biomedical Engineering of Hong Kong Productivity Council, presenting the patented and award winning medical technology on dermatological analysis (BM)



Care for the Elderly in the Community (CV)

Group photo of speakers and Committee members taken at the 15th BD Division Annual Seminar – Challenges of Building Development in Metropolis (BD)



The Hong Kong delegation meeting with the Israel Ministry of Health on 9 September 2015 (BM)

Delegation to Gas Science Museum at Korea LNG Terminal (EG)



Lecture by Ir Derek CRIDLAND (AC)

Group photo of the President and SSC Committee members at the Joint Safety, Health and Environmental Seminar 2015 (SSC)



Singapore Delegation Site Visit to MRT Contract T221 Havelock Station (CV)

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Group photo of Environmental Division Annual Forum 2016 (EV)



The 3rd Cross-Strait Forum on Smart Rail Development - Present & Future (LT)



Opening speech of the Annual Seminar by the Guest of Honour (GE)



Toasting at the 22nd Annual Dinner at the Hong Kong Convention and Exhibition Centre (GE)



Ir Prof Victor LI presenting the keynote speech at the Annual Symposium (EL)



Group photo of participants of the Young Inventor Competition 2016 (MC)



The delegation visiting the China Experimental Fast Reactor of the China Institute of Atomic Energy (NE)



Secondary school students participating in the Job Shadowing Programme visited one of the host companies (EV)

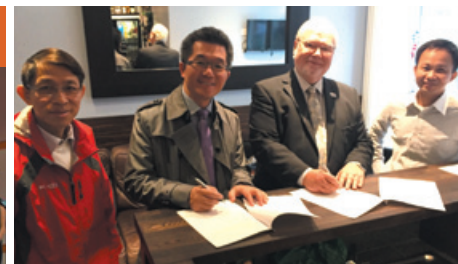


Mr ZHENG Hua (Right) being presented a souvenir by Ir Dr Alain LAM, Chairman of the NE Division (NE)



Students of one of the finalist teams presenting their project in the Energy Innovations for Smart City Competition (EL)

ST Division Annual Seminar 2016 (ST)



Signing of the Memorandum of Understanding by Ir Dr K C LAU, SSC Chairman (Left 2nd) and Dr John HOOPER, CABE Chief Executive, in the presence of Ir Dr Jeffrey YUNG (Right) and Ir Dr Joseph CHI (Left) (SSC)



YMC Overseas Delegation to Russia - Visit to Moscow Aviation Institute (YMC)

Judging panel of the Structural Excellence Award (ST)



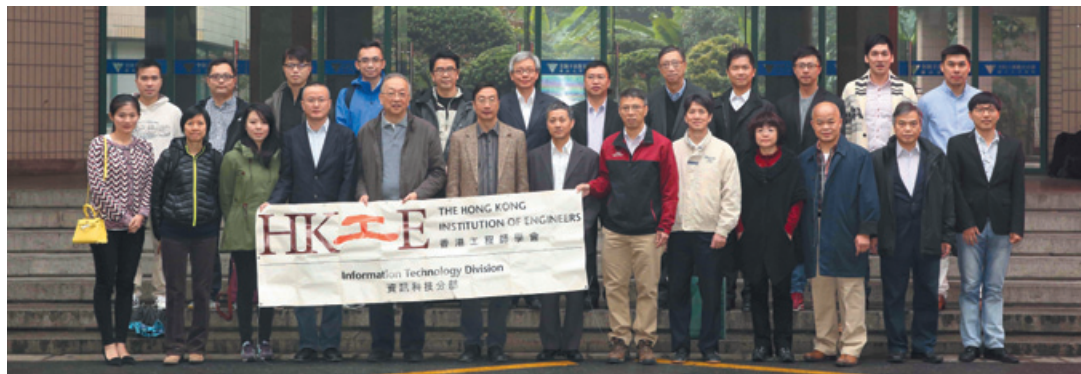
Group photo of the live band and performers at MI Gala Dinner 2016 (MI)

Group photo of participants visiting the elderly during the Mid-Autumn Festival (MC)



Champion Team (The Open University of Hong Kong) of the Young Engineers Programme and Presentation Day (MI)

雲南省工程文化考察團 - 參觀滇西抗戰紀念館 (YMC)

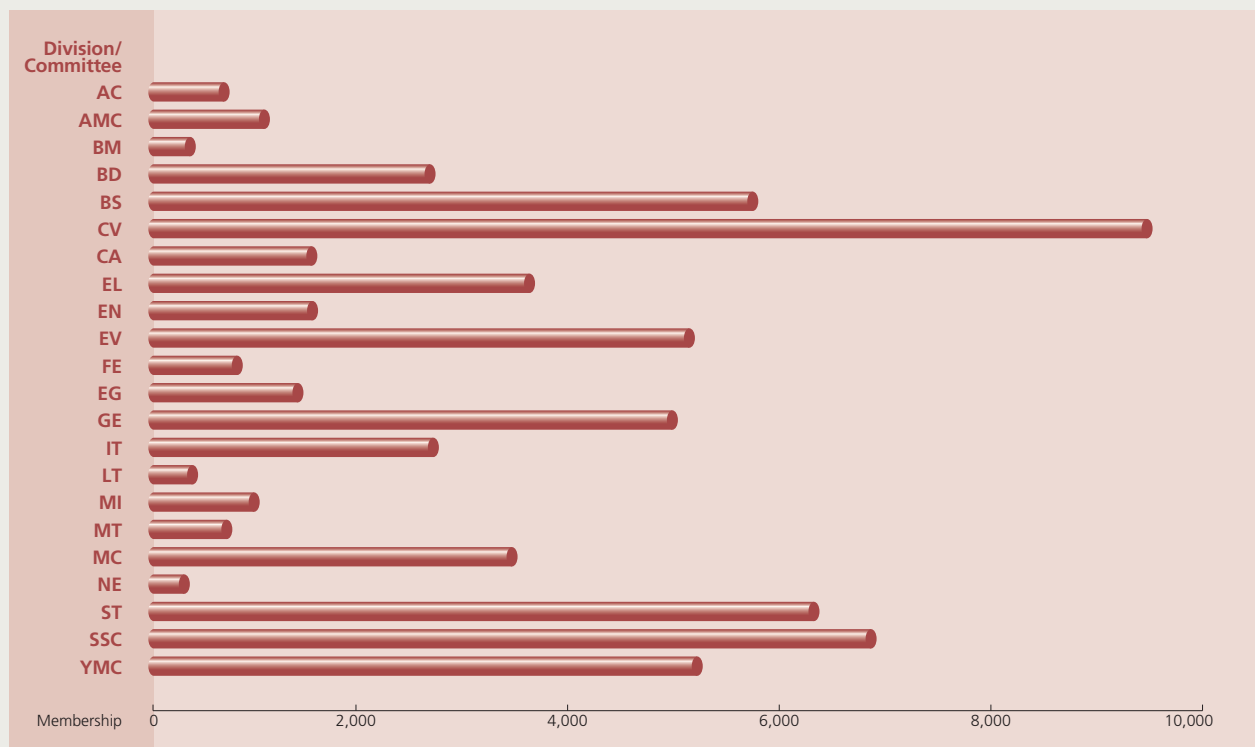


Opening ceremony of the IT Division National Study Tour 2015 (IT)

Membership of Divisions/Committees

(as at 23 June 2016)

Division/Committee		Membership
Aircraft Division	AC	681
Associate Members Committee	AMC	1,067
Biomedical Division	BM	357
Building Division	BD	2,644
Building Services Division	BS	5,744
Civil Division	CV	9,520
Control, Automation & Instrumentation Division	CA	1,521
Electrical Division	EL	3,606
Electronics Division	EN	1,528
Environmental Division	EV	5,137
Fire Division	FE	807
Gas & Energy Division	EG	1,388
Geotechnical Division	GE	4,974
Information Technology Division	IT	2,685
Logistics & Transportation Division	LT	379
Manufacturing & Industrial Division	MI	969
Materials Division	MT	707
Mechanical, Marine, Naval Architecture & Chemical Division	MC	3,431
Nuclear Division	NE	300
Structural Division	ST	6,330
Safety Specialist Committee	SSC	6,877
Young Members Committee	YMC	5,212



Celebration Events for the 40th Anniversary



To commemorate the 40th Anniversary of the Institution and to raise the Institution's profile, a celebratory grant was specially set up to fund celebration events organised by Divisions and Committees in line with the theme of the Session. A total of ten Divisions and Committees were awarded the grant and their dedicated efforts to celebrate this milestone year was acknowledged at the Presidential Address and Dinner held on 11 September 2015. Reports of the projects are presented in this section.

BIOMEDICAL DIVISION

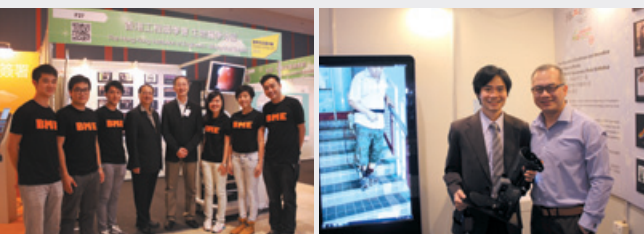
"Four Decades of Excellence and Innovation – From Vision to Reality" Exhibition at InnoCarnival 2015

31 October 2015 to 9 November 2015

The Division set up an exhibition booth at InnoCarnival 2015 to create a photo gallery for displaying biomedical engineers' achievements in Hong Kong and the development milestones of the local biomedical engineering

industry. The event served the dual purpose of celebrating both the 40th Anniversary of the HKIE and the 30th Anniversary of the Biomedical Division. Visitors had the opportunity to explore the exhibits directly, such as the exoskeletal ankle robot for assisting post-stroke patients and people with ankle joint complications; and the gastrointestinal endoscope training unit with a stomach model for demonstration of operation.

The exhibition enabled the public to gain better understanding of the seamless collaboration between biomedical engineering technologies and clinical applications, as well as the contribution of biomedical engineers in safeguarding the well-being of the public. More than 2,000 visitors were attracted to the exhibition and their response was positive. Many visitors said the exhibition gave them more insight into the contribution of engineering in healthcare services and the frontier application of medical technologies.



CIVIL DIVISION

Engineers' Insight Series: The Foresight of Regional Infrastructure Development

November 2015 to June 2016

The Engineers' Insight Series was organised between November 2015 and June 2016 and comprised three seminars related to Belt and Road (B&R) projects and the third runway. To prepare engineers for B&R projects, the seminars covered the historic evolution and future prospects of B&R; the role of Hong Kong's engineering sector in B&R; green infrastructure development under B&R; the strategic role of

Hong Kong corporate governance in B&R; securitisation in relation to infrastructure projects under B&R; and financing mega projects in B&R. In relation to airport development in the Pan-Pearl River Delta region, the future Hong Kong International Airport; challenges in planning the third parallel runway; and the opportunities and challenges for Hong Kong as an international aviation hub were discussed.

The seminars attracted altogether an attendance of more than 450 participants including speakers, invited guests and engineers. The knowledge accumulated through these seminars would be beneficial to the development of regional infrastructure development for the years to come. Reports of the seminars are published in *Hong Kong Engineer*.



CONTROL, AUTOMATION & INSTRUMENTATION DIVISION

Your Dreams Our Goals, CAI Professions for the Future
工情四十載·控、自、儀工程專業與您共建未來

16 March 2016

To promote professional knowledge of and development in Control, Automation and Instrumentation engineering in the future, the Division held an annual symposium entitled "Your Dreams Our Goals, CAI Professions for the Future" on 16 March 2016. The Symposium was an international event featuring prominent speakers from Hong Kong, Mainland China and overseas.

ELECTRICAL DIVISION

HKIE 40th Anniversary Solar Power Model Car Design Competition

8 May 2016

The Solar Power Model Car Design Competition was organised by the Electrical Division to promote awareness of energy saving and understanding of renewable energy among junior secondary school students.

More than 100 students from a total of 27 secondary schools participated in the Competition. To promote

creativity and fair competition among participating teams, students were free to design and fabricate a model car that conformed to a specified size. The competition set-up consisted of three artificial light sources to simulate sunrise and sunset and a runway with different gradients. The models should be designed to harvest the most energy from the light sources and convert

it into useful mechanical energy. A special school for physically handicapped students participated, which demonstrated that everyone had an equal opportunity to learn and be creative. The judges were impressed not only by the creativity and enthusiasm of each team, but also by their positive attitude towards continuous improvement.



ENVIRONMENTAL DIVISION

Micro Movie – Careers in Environmental Engineering

September 2015 to June 2016

With the support of the Celebratory Grant, the Environmental Division produced a micro movie to promote the professional image and career prospects of environmental engineering in order to attract university students to join the industry. The micro movie featured, among others, success stories of young engineers in pursuing or

establishing environmental careers or businesses. The micro movie (now available at <https://www.youtube.com/watch?v=cTtRMAoQKI8> or <https://drive.google.com/file/d/0B8ck65SuqRH7VWJ6dnYxbGVhM00/view>) will be distributed among tertiary school students as well as secondary school teachers and students through various channels, including seminars,

outreach programmes, career talks, career expo, Facebook and YouTube. It is expected that the micro movie will be widely viewed by 600 to 1,000 engineering students, young engineers, secondary school teachers and students each year.



GAS & ENERGY DIVISION

“Hong Kong Engineering Wonders” Photo Competition 「鴻圖華構•香港工程奇觀」攝影大賽

1 March 2016 to 1 April 2016

To celebrate the 40th Anniversary of the HKIE, the Gas & Energy Division organised the “Hong Kong Engineering Wonders” photo competition (「鴻圖華構•香港工程奇觀」攝影大賽) from 1 March to 1 April 2016.

The objective of the photo competition is to arouse the interest of the general public in engineering works in Hong Kong and enhance their appreciation and recognition of the achievements of Hong Kong engineers. A Facebook page was

created to promote the Competition (www.facebook.com/eg.hkie.org.hk). Within just one month, the Division received an encouraging 205 entries.

A total of 22 photos were shortlisted for voting by the public for the Champion, First Runner-up, Second Runner-up and Merit awards. The Facebook page registered 21,546 views and 163 likes. President Ir C C Chan presented the prizes and awards to the winners at the Division annual dinner on 10 May 2016.



Celebration Events for the 40th Anniversary

GEOTECHNICAL DIVISION

“Amazing Engineering Works in Hong Kong” Video Competition

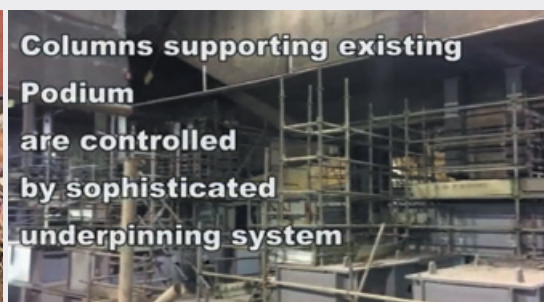
1 February 2016 to 15 April 2016

The Competition aimed to arouse the interest of the young generation in and enhance their appreciation of engineering works and achievements in Hong Kong.

Participants made a one-minute video of any ongoing or completed

engineering works in Hong Kong to enter one of two categories of the Competition, namely category A – university student, and category B – geotechnical engineering industry. A total of 16 videos from 16 contestants were received.

Five awards for the Video Competition – three for the geotechnical engineering industry and two for university students, were presented during the Geotechnical Division annual seminar on 3 June 2016.



LOGISTICS & TRANSPORTATION DIVISION

“Smart Logistics and Transportation” Essay Competition

November 2015 to March 2016

Targeted at engineering students and young engineers, the Essay Competition organised by the Logistics & Transportation Division aimed to encourage participants to research various aspects of smart logistics and transportation with reference to the Hong Kong situation.

The Competition attracted many entries, most of which were creative and in-depth. This may reflect the young participants' interest in making Hong Kong a smarter city in the future.

The judging panel insisted on a high standard and, as a result, only the First and Second Prizes were

awarded. The award presentation ceremony was held on 22 March 2016. The winning essays were uploaded to the Division website and the winners were invited to share their ideas with members of the Young Members Committee and Logistics & Transportation Division on 25 July 2016.



MANUFACTURING & INDUSTRIAL DIVISION

Mobile Apps (Android) Development Workshops for Engineers

9 January 2016 to 15 April 2016

Mobile devices are becoming crucial nowadays. The innovative adoption of mobile applications in traditional engineering is the key to enhanced productivity, competitiveness and customer service. In light of this, four workshops were organised by the Manufacturing & Industrial Division with the support of the Celebratory Grant, to introduce engineers to various ways of developing mobile applications

for engineering applications, including but not limited to mobile applications for location, sound, temperature, vibration and measurement, using off-the-shelf tools.

More than 100 participants attended the opening session to learn the latest development environment for smartphone engineering applications. During the second

to fourth sessions, a total of 18 projects for solving engineering issues through developing Android app prototypes were completed by the participants with eight participants delivering their Android demonstrations for evaluation. Through the in-depth evaluation of Vice President Ir Dr Philco Wong and other HKIE members, three projects that received the highest scores were selected for commendation.



YOUNG MEMBERS COMMITTEE

Engineering Our City 「工程•思」創意設計方案比賽

February 2016 to April 2016

The “Engineering Our City” programme was organised to engage secondary school students in real life problem-identification and problem-solving from an engineering perspective. The opening ceremony was held on 20 February 2016. Three study areas related to smart city development were selected, namely efficient transportation, environmental protection and land supply. A total of 36 students

participated in the programme in teams. Throughout the two-month period, the teams progressed from identifying a specific problem to studying the feasibility of different options and selecting the optimal solution. Each team was supported by a tutor from the engineering profession who shared their engineering experiences and provided practical advice.

The final exhibition was held on 23 April 2016 where students shared their proposals in the form of a public exhibition. The students said that the programme enabled them to gain a broader view of engineering in society and a deeper understanding of how engineers worked. The exhibition was well-received by the public and students gained valuable insight through interacting with them.

