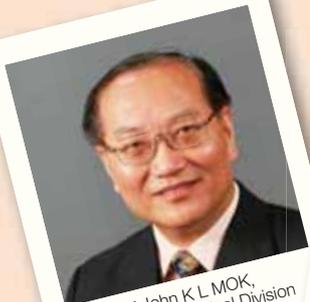


Report from Divisions and Other Committees 2009/2010



Ir Prof John K L MOK,
Chairman of Biomedical Division



Ir Allan S K CHAN,
Chairman of Building Division



Ir Frankie W P CHAN,
Chairman of Building Services Division



Ir Philco N K WONG,
Chairman of Civil Division



Ir Li Siu Lam,
Chairman of Control, Automation
& Instrumentation Division



Ir Simon F W CHUNG,
Chairman of Electrical Division



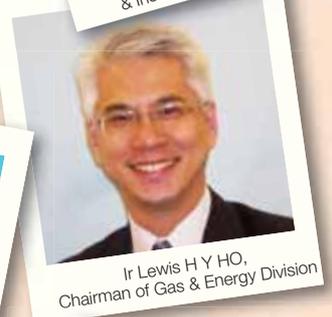
Ir Peter T C YEUNG,
Chairman of Electronics Division



Ir Dr TSO Che Wah,
Chairman of Environmental Division



Ir Prof Paul T C PANG,
Chairman of Fire Division



Ir Lewis H Y HO,
Chairman of Gas & Energy Division



Ir Joseph W F LAI,
Chairman of Mechanical,
Marine, Naval Architecture
& Chemical Division



Ir PUN Wai Keung,
Chairman of Geotechnical Division



Ir Dr Herman Y W TSUI,
Chairman of Information
Technology Division



Ir Peter C K CHAK,
Chairman of Manufacturing &
Industrial Division



Ir Dr FUNG Wing Kun,
Chairman of Materials Division



Ir Dr Louis F S LOCK,
Chairman of Safety Specialist
Committee



Ir Ronald K W CHENG,
Chairman of Nuclear Division



Ir LAU Chi Kin,
Chairman of Structural Division



Prof LAW Kwok Sang, Chairman
of Authorised Person/Registered
Structural Engineer/Registered
Geotechnical Engineer Committee



Mr Otto W H MAK,
Chairman of Associate
Members Committee



Mr Leo H Y CHAN,
Chairman of Young Members
Committee

Report from Divisions and Other Committees 2009/2010

June 2009

Electrical Division: The first large-scale seminar for the Session was organised by the Electrical (EL) Division on 26 June 2009. At the seminar entitled “Energy and Carbon Audit”, guest speaker Ir Kenneth Li provided 120 participants a framework for conducting carbon audits for professional engineers in the Building Services Discipline, Electrical Discipline, Environmental Discipline and Mechanical Discipline.

Biomedical Division: With a similar focus on carbon management, the Biomedical (BM) Division’s seminar on “Green Ethics and Engineers” also gave an introduction of the new roles of engineers in carbon management and eco-design. In addition, issues concerning hazardous substances and the use of innovative and green technologies were addressed.

Control, Automation & Instrumentation Division: As an outreach initiative, the Division organised an “Ambassador Visit Programme”. More than 200 participants participated in this one-year programme and visited a number of companies in various industrial sectors. The programme also aimed to make the engineering profession more visible as a whole.

July 2009

Mechanical, Marine, Naval Architecture & Chemical Division: The seminar on “Effective Noise Control Policies for Metropolis” organised by the Division attracted over 110 engineers, acoustic and noise control professionals and practitioners from Hong Kong, Singapore and Australia. Trends in environmental noise control, new development in noise controlling policy and models for assessing the effectiveness of noise control measures were discussed.

August 2009

Structural Division: The Division organised a technical visit to the City University Wind Tunnel. It is a boundary layer wind tunnel designed for the study of various wind engineering problems. During the visit, demonstrations such as boundary layer generation by remote-controlled roughness elements and pressure distribution of instantaneous cladding pressure by multi-channel pressure systems were conducted.

Building Services Division, Materials Division and Manufacturing & Industrial Division: There were three large-scale seminars organised during the month, including a seminar on “Carbon Neutral – Definition, Application and Vision” organised by the Building Services (BS) Division; a technical seminar on “Low Energy & Low Emission Cement for High Performance Concrete” presented by Dr Sui Tongbo organised by the Materials (MT) Division; and a seminar on “Sustainable Engineering with Financial Benefits” organised by the Manufacturing & Industrial (MI) Division. Each of these three seminars attracted more than 100 participants.

Information Technology Division: At this technical seminar organised by the Division on “Towards Knowledge-based Energy Management”, Ir Wallace Lin briefed the participants on centralised Building Management System database.

Gas & Energy Division: Before the end of the summer holiday, Dr Achim Zajc was invited by the Gas & Energy (EG) Division to deliver a technical seminar on “Biogas – A Challenge for Metering”.

September 2009

Mechanical, Marine, Naval Architecture & Chemical Division: A half-day seminar was co-organised by the Mechanical, Marine, Naval Architecture & Chemical (MC) Division and its Mainland counterparts in mid September in Guangzhou to celebrate the 20 years of collaboration among the marine professionals in Hong Kong and Guangdong Province, which attracted around 100 participants.

Young Members Committee: A technical visit was arranged by the Committee to a green roof site of a local commercial building with an aim to study the application of this innovative environmental initiative and micro renewable technologies.

Fire Division: The Division organised a local technical visit to Research Engineering Development Façade Consultants Limited, during which various testing methods were demonstrated.

Environmental Division: In response to the Government’s launching of a 4-month public consultation on the “New Air Quality Objectives” review and the measures for achieving the objectives, the Environmental (EV) Division hosted a technical seminar to brief members on the new proposal including its implications and costs.

Safety Specialist Committee: Ir Paul Chan was invited by the Committee to be the inaugural speaker at the “Q&M Series”. Ir Chan’s topic was “Feng Shui and Environment Management”.

Electrical Division: The “Energy Innovation Project Competition” was held from September 2009 to May 2010. The event was jointly organised by the Electrical Division and CLP Power HK Ltd, with the Hong Kong Polytechnic University as a co-organiser and supported by the Electrical and Mechanical Services Department. The competition aimed to encourage secondary school students to develop innovative ideas on energy efficient applications and to promote efficient energy use to the community. Each participating team comprised four members. Led by a teacher, each participating team was requested to work on a project on energy innovation with the guidance of young engineers. More than 50 proposals from different schools were received.

October 2009

Gas & Energy Division: A representative from CLP Research Institute Limited was invited by the Division to brief 100 participants on “CLP’s Proposed Offshore Wind Farm Feasibility Study” and the key findings in its Environmental Impact Assessment Report. As proposed, the offshore wind farm is to be built at the HKSAR’s south-eastern waters, approximately 9km and 5km east of the Clearwater Bay peninsula and East Ninepin Island respectively. The report has taken into account the physical location and biological environment of the potential offshore wind farm site.

Nuclear Division: Another technical seminar concerning clean energy was presented by the Nuclear (NE) Division on “Nuclear Power in the United States: Poised for a Renaissance. What’s Different? Why? Now?”. Dr Gilbert Brown discussed the nuclear renaissance in the US and briefed the meeting on the debates over the proposal of using nuclear energy as a green solution to replace fossil fuels for combating global warming and its sustainability in meeting future energy needs.

Environmental Division and Materials Division: At the seminar on “Control of Volatile Organic Compound (VOC) Emissions from Products”, Ir Joe Fong of the Environmental Protection Department was invited to share his insights in the existing and impending extension to control the VOC content of products under the Air Pollution Control (VOCs) Regulation. The event was jointly organised by the Environmental Division and Materials Division.

Young Members Committee: To support the “International Coastal Cleanup 2009” co-ordinated by the Green Council, a 28-member Young Members Committee (YMC) volunteer team was formed to take part in the service at Sandy Bay, Pokfulam. A total of 120kg of debris was collected from the beach during the event and the data collected would help identify long-term solutions for reducing marine debris.

Mechanical, Marine, Naval Architecture & Chemical Division: To raise members’ awareness of green issues, the Division organised a seminar on “Facing the Challenge of Ship Recycling Convention” to brief participants on the development and requirements of the Ship Recycling Convention 2009. The seminar aimed at gearing up members to face the challenges posed by the convention.

Building Division: To promote a deeper understanding of cultural heritage preservation, the Building Division arranged a tour on “Conservation of Diaolou (fortified multi-storey towers)” to Kaiping, Guangdong. There are four Diaolou clusters in Kaiping, namely, Zili Village, Chikan, Majianglong and Li Garden. The Acting Director of Kaiping Heritage Council Office and General Office of Kaiping Cultural Heritage Bureau was invited to give a presentation to the participants about the historical background of the only world cultural heritage site in Guangdong.

November 2009

Geotechnical Division: At the Division’s technical seminar on “Uncertain Geotechnical Truth and Cost-effective High-rise Foundation Design”, guest speaker Mr Clyde Baker used five high-rise buildings as examples to illustrate cost-effective foundation solutions, and discussed the criteria for evaluating risks against cost savings. In addition, the problems encountered and remedial actions were deliberated in detail for these cases. The seminar was well attended by 300 participants.

Building Services Division: A large-scale event was organised by the Building Services Division, the American Society of Heating, Refrigerating and Air-Conditioning Engineers (Hong Kong Chapter), and the Chartered Institution of Building Services Engineers (Hong Kong Branch). The co-organiser of the event was the Department of Building Services Engineering of the Hong Kong Polytechnic University. The symposium on “Design for Sustainable Performance” attracted more than 200 participants. It is an annual event to bring together international and local speakers to foster advancement in building services engineering with regard to energy conservation, sustainability, etc.

Civil Division: As one of the co-organisers, the Civil (CV) Division took part in the “GHMT – Guangzhou, Hong Kong, Macau & Taiwan Conference” held in Taipei City. The conference covered topics such as the development of an energy-effective city with a non-conventional concept, new trends on regional synthesis transport hub planning and the influence of urban construction on the development of Macau’s light rail system. Topics which were unique to highways, bridge, rail and airport infrastructures were discussed within the context of sustainability.

Electronics Division: Two events on Light Emitting Diode (LED) were held in the month of November 2009. The first one was a technical seminar on “LED Adoption, Technology & Solid State Lighting Application” organised by the Electronics (EN) Division, in which a guest speaker from OSRAM Opto Semiconductors Asia Limited was invited to share information on the Solid State Lighting (SSL) industry analysis. This analysis provided SSL players with an overview to map out new marketing and product design strategies.

Electrical Division: The second LED seminar, “LED Lighting Technology Seminar”, was organised by the Electrical Division. A guest speaker from Vossloh-Schwabe-Deutschland group was invited to share with 120 participants attending the event their knowledge of worldwide LED lighting technology.

Safety Specialist Committee: The technical visit “Green Site – Lamma Power Station” arranged by the Committee was attended by 30 members. The tour started at the visitor centre and the generation facilities, followed by a walk to the wind turbine at Tai Ling of Young Shue Wan and a bus tour to the gas receiving station.

Report from Divisions and Other Committees 2009/2010

Control, Automation & Instrumentation Division: The Division arranged a technical visit to the Lamma Power Station and Wind Power Station which included an introduction of the control, automation, instrumentation and environmental protection technologies used in the power industry such as electrostatic precipitators, flue gas desulphurisation plants, Low NO_x burners, the latest 300 MW class natural gas fired combined-cycle generation unit and the first commercially operated 800kW wind turbine in Hong Kong.

Young Members Committee: The Committee organised two heritage tours to Lung Yeuk Tau Heritage Trail and Ping Shan Heritage Trail in November 2009 and January 2010 respectively. The two visits each attracted 50 young members. The tours aimed to arouse members' awareness of heritage preservation through appreciation of the history of these old buildings. The Committee also launched the "Overseas Delegation to Denmark 2010 & Local Seminar and Visit Series" in November 2009, which lasted for seven months till the end of the Session. The core programme of the series was a visit to Denmark in March 2010 with "Climate Change" as the theme. The visit was organised in collaboration with the Continuing Professional Development Committee and 16 participants joined the Delegation. During the visit, the latest green technologies and engineering works in Denmark were covered. In addition, seven local seminars, three visits and a debriefing session were organised to enrich members' knowledge of climate change issues in Hong Kong.

December 2009

Materials Division: Over 350 participants took part in the two-day conference "MaSTEC Materials Science & Technology in Engineering Conference 2009", which was jointly organised by the Materials Division, the Department of Physics and Materials Science of City University of Hong Kong and the Hong Kong Productivity Council. Ir Ko Chan Gock, former Director of Water Supplies, was invited to deliver the opening speech. With the theme "Green Materials, Green Technology", papers focusing on environmental friendly materials and their applications were presented.

Safety Specialist Committee: In the seminar on "British Standard 8900 – Managing Sustainable Development in Organisations" arranged by the Safety Specialist Committee (SSC), Mr Terrance Cheng, Technical Manager of the British Standard Institution, introduced the guide for managing sustainable development (British Standard (BS) 8900) and the model of BS 8900 with regard to its principles, practices, outcomes and maturity matrix. He also presented the four sustainable development principles of BS 8900: integrity, exclusivity, stewardship and transparency. The seminar attracted over 160 participants.

Control, Automation & Instrumentation Division: As part of the "Q & M Series", the Control, Automation & Instrumentation (CA) Division

held a seminar on "I-Ching and Management" which attracted over 100 participants. The seminar aimed to promote the application of I-Ching and its 64 hexagrams (qua) in the interpretation of various modern management concepts, models, and practices like hierarchy management, balance sheet application, change management, company and product life cycle, front line and support practices, etc.

Mechanical, Marine, Naval Architecture & Chemical Division: The first event of the "Workshop on Carbon Audit Series – Seminar on Carbon Audit and Footprinting" was jointly organised by the Division and the Open University of Hong Kong. Ir Dr William Lau, a Chartered Chemical Engineer, shared his experience in carbon audits as the first step to reduce greenhouse gas emissions. Carbon audit on buildings was used as an example in the seminar.

Electronics Division: At the technical seminar on "Solar Energy (PV) Roadmap and Technology" organised by the Division, Dr Emily Chan was invited to share the recent development in PV technologies, her latest solar energy research topics and device developments conducted all over the world. She also introduced the engineering principles and applications of different types of PV cells with an in-depth comparison of different technologies in terms of installation, running cost and payback periods.

Fire Division: A cross border technical visit to Tianyu Intelligent Fire Suppression Equipment Co Ltd in Foshan, Guangdong, was organised by the Fire (FE) Division. The programme began with an overview of the codes and standards for fire service installations on the Mainland; the suppression system required under the GB and DB codes for high ceiling and large space buildings; and followed by case studies. A guided tour within the factory was arranged and testing of the suppression equipment and operation of the intelligent water monitors were also demonstrated.

Information Technology (IT) Division: The Division organised a technical visit to Wetland Park and its waste water treatment system. The 61-hectare Hong Kong Wetland Park demonstrates the diversity of Hong Kong's wetland ecosystem and serves well to appeal to the public for their support in environmental conservation.

Civil Division: Concerns over climate change has been growing worldwide and its potential impacts have also influenced the patterns of travel activities, behaviour of travellers as well as the operation of the transportation industry. To this end, the Civil Division organised a seminar on "Climate Change and Transportation: A Changing Climate" and Dr Harry Timmermans, Chaired Professor of Urban Planning at the Eindhoven University of Technology, Netherlands, was invited to be the guest speaker. The seminar discussed alternative transportation-related solutions to mitigate the impacts of climate change and the prospects of these alternative solutions. Various avenues for future research on this area were also identified.

January 2010

Mechanical, Marine, Naval Architecture & Chemical Division:

As the second event of the “Workshop on Carbon Audit Series”, the Division organised a seminar on “Clean Development Mechanism and the Potentials in Hong Kong” which attracted more than 150 participants. Ir Dr William Lau was again invited to share his expertise in clean development mechanisms.

Environmental Division: The Division organised two annual functions in a row in the month of January 2010. At the Division’s Annual Reception, the Guest of Honour, Prof Lam Kwan Sing, delivered a speech titled “Some Thoughts on Environmental Management in Hong Kong”. This event was followed by a technical seminar by Mr Lam Chiu Ying as the guest speaker. The seminar focused on the various ways engineers are linked to climate change when its basic concepts were explained. The obvious changes in climate patterns in the past two centuries were further discussed within the context of Industrial Revolution. Attending engineers were invited to ponder what they could do to help prevent climate change from becoming harmful.

Building Division: During a visit to Curtain Wall Production, Permasteelisa Factory in Dongguan, Guangdong, organised by the Building Division, participants shared their experiences in design, fabrication and construction of various curtain walls for projects involving tall buildings in Macau, Australia and other South East Asian countries. Different issues concerning client requirements, site constraints, quality control and difficulties encountered in fabrication, transportation and construction of the curtain walls were discussed in the presentations during the visit.

Gas & Energy Division: The Division organised a delegation to Shanghai to visit the natural gas installations in Shanghai, Zhangjiagang, and Hangzhou. Through these visits to the LNG receiving terminal, local natural gas companies, manufactories and educational institutions, the delegates were given the opportunity to learn more about the natural gas industry on the Mainland. The Division also arranged a local site visit to the North East New Territories (NENT) Landfill Site. The NENT landfill gas treatment plant supplies treated landfill gas to the Hong Kong and China Gas Company Town Gas Production Plant at Tai Po as heating fuel during the town gas production process.

Electrical Division: In the seminar on “Deploying the Smart Grid Vision: A case study in Toronto, Canada” hosted by the Electrical Division, Mr Joshua Wong from Toronto Hydro Electric System in Canada was invited to share information on possible improvements in power utility services after the implementation of smart grids. More than 100 participants attended the event.

February 2010

Building Services Division and Young Members Committee: An experience sharing session and a case study of “LEED’s application in China” was jointly organised by the Building Services Division and the Young Members Committee, to introduce Leadership in Energy and Environmental Design (LEED) pre-certification, the certification process and corresponding requirements. Subjects such as the application of the LEED-CS 2.0, as well as problems and difficulties encountered in incorporating a green approach to projects were also covered.

Electronics Division: The Division paid a technical visit to the Electrical and Mechanical Services Department Headquarters. During the visit, a presentation was made on the story behind this new headquarters and the various innovative building service facilities. Special features such as the natural ventilation workshop area, ice storage air conditioning system to reduce peak electricity demand, the largest of its kind solar photovoltaic panels in the territory and grey water recycling system were also highlighted.

March 2010

Control, Automation & Instrumentation Division and Safety

Specialist Committee: The first seminar in March was jointly held by the Control, Automation & Instrumentation Division and the Safety Specialist Committee on the subject of “Chinese Wisdom and Modern Management”. Being the second seminar of the “Q & M Series”, the event was well attended by 150 participants and the topics being discussed included Buddhism and Taoism; Confucianism and I-Ching; the Art of Sun Tsz and Management; Management Philosophy and other special topics. The Control, Automation & Instrumentation Division also held its Annual Dinner in March.

Fire Division: The Division organised a seminar on “Fire Engineering for a Sustainable Future” which attracted 400 participants from the fire engineering industry and Government departments. The opening address was delivered by Mrs Carrie Lam, Secretary for Development. She enlightened the audience on the measures implemented by the HKSAR Government in addressing important fire safety issues in Hong Kong. During the seminar, eight papers were presented by renowned overseas speakers such as Prof Dougal Drysdale, Prof Ian Burgess and Prof Fan Weicheng.

Building Division: The Division organised an Annual Seminar on “Smart & Green Building – Design, Construction & Management”. Distinguished speakers from Government departments, legal and commercial companies, engineering consultants, academia, design and construction management contractors and specialist contractors were invited to present a total of seven papers. The panel discussions at the end of each session were lively and enlightening. The event was well attended by 350 participants.

Report from Divisions and Other Committees 2009/2010

Geotechnical Division: At the Division's Annual Dinner, Mr Richard Lancaster from CLP Power HK Ltd was invited to address the occasion and the importance of renewable energy development was highlighted in his speech. The Division also organised a landslide study tour abroad to gain a first-hand appreciation of the geo-hazards brought by extreme weather conditions during Typhoon Morakot which hit Taiwan in August 2009. The study focused on the characteristics of the landslides triggered by intense rainfalls and the social impacts, the damages and the losses caused by the landslides. Study of other geo-hazards and the performance of existing natural terrain hazard mitigation measures were also covered.

Electronics Division: The Division arranged a technical visit to the CLP Energy Efficiency Centre, which focused on the application of the latest energy efficient technologies to advanced audio-visual equipment.

Fire Division: The technical visit to The Heritage 1881 organised by the Division identified the difficulties encountered in complying with current fire safety codes and applying the various passive and active fire protection measures during the conversion of a pre-existing building of high heritage value into a complex which houses a boutique hotel, a high-end shopping mall and restaurants.

Building Division, Civil Division, Materials Division and Structural Division: The four Divisions, with other related organisations, jointly presented a seminar on "High Performance Concrete" which was well attended by 200 participants. Prof Sun Wei of the Southeast University in Nanjing shared her views on the sustainability of concrete as an important move to energy and resources saving.

Electrical Division: The Division arranged a seminar on "Clean Energy for Hong Kong" and Ir Chan Siu Hung from CLP Power HK Ltd was invited to share his views on power generation, environmental issues in the Pearl River Delta region and CLP Power's vision for clean power.

Building Services Division: Two events, namely "Technical Seminar on Low Carbon Building Design and Operation" and "Building Energy Codes Workshop" were organised by the Building Services Division. The seminar was jointly organised with the Chartered Institution of Building Services Engineers (CIBSE) (Hong Kong Branch). It provided an experience sharing platform for energy efficient diagnoses and operation optimisation on a HVAC (Heating, Ventilation, Air Conditioning) system in a CIBSE Low Carbon Award project. On-site surveys on HVAC systems in Mainland China, US and Japan were also discussed. The workshop on Building Energy Code was co-organised with CIBSE (Hong Kong Branch) and the Department of Building Service Engineering of the Hong Kong Polytechnic University. It aimed to provide training to familiarise participants with the codes of practice issued by the Energy Efficiency Office which cover energy efficiency codes in new, existing and retrofitted buildings.

Control, Automation & Instrumentation Division: The Division held its Annual Dinner in March.

April 2010

Civil Division: The Division received great support from Government departments and the commercial sector for its Annual Conference on "Infrastructure Solutions for Tomorrow". The conference brought together leading experts to discuss infrastructure solutions and new challenges, including climate change impacts, that are faced by the profession in terms of sustainable development. The conference also provided a regional platform for exploring practical technological solutions in the design, construction and operation of infrastructure.

Environmental Division: As a wide range of measures were being employed by many developed and developing economies to reduce carbon intensity, the Environmental Division specially organised an Annual Seminar on "Engineering Challenge for a Low Carbon Future" to provide an experience sharing platform for engineers, technologists, academics and related professionals. With Dr Poon Kit as the Guest of Honour, the seminar drew a full house of 300 participants. Other distinguished guests included Ir Dr Andrew Chan, Ir Dr the Hon Raymond Ho and various speakers from public utilities, consulting companies and academia. The seminar was supported by the Control, Automation & Instrumentation Division, the Associate Members Committee (AMC), the Safety Specialist Committee and the Young Members Committee.

In view of the tragic building collapse incident at Ma Tau Wai Road in early 2010 which generated great concern within the community over urban renewal, the Division organised a special technical seminar to provide an experience sharing opportunity with regard to the adoption of a 4Rs strategy in urban renewal to curb urban decay and improve the living conditions of the residents. The 4Rs strategy is: Redevelopment, Rehabilitation, Reservation and Revitalisation.

Information Technology Division: The Division's Annual Seminar on "The Way to Digital City – Sustainable Information Infrastructure and Solutions" attracted participants from the public and private sectors, academia and professional institutions as well as delegates from the Mainland. Topics discussed included digital cities, its development and urbanisation in China.

Electronics Division: The Division organised a technical seminar on "Technologies and Opportunities of Renewable Energy and Smart Grid" and Ir Dr Wilton Fok from The University of Hong Kong was invited as a guest speaker. He introduced the audience to the latest technologies in renewable energy generation and distribution, such as wind energy, photovoltaic energy and the smart power grid. The seminar also covered issues such as potential applications and business opportunities of renewable energy.

Building Division: As part of its tradition, the Division arranged a technical visit to Xiamen, Fujian. The delegates paid visits to the Xiamen Construction Department and Xiamen East passageway (Xiang-an Tunnel) and they were impressed by the Fujian Nanjing Tulou (rammed earth building). The Nanjing cluster of these viviparous pit earth buildings was nicknamed “four dishes one soup” as it consists of a square building, an oval and three round buildings.

May 2010

Structural Division: A number of conferences relating to building construction were organised in May. The Structural (ST) Division hosted a meeting on “Evolutionary-based Computation Optimisation for Structural Topology Design for Modern Tall Building”. During the meeting, state-of-the-art computational techniques for optimal structural topology and element sizing design of tall building structures were presented. Evolutionary-based optimisation methods along with recent advances and applications were also covered. The effectiveness of the computational design optimisation methodology was demonstrated through its applications in designing real-life high-rise buildings. The Division also organised a symposium on “Advanced Façade Engineering and Technology” for the advancement of the façade industry, to promote greater awareness of this specialist field, and to illustrate how façade design can contribute to the overall sustainability of buildings. The symposium attracted 200 participants.

Building Division and Materials Division: A seminar on “Construction Products Certification: Test in Hong Kong, Certified in Hong Kong” was jointly organised by the Building (BD) Division, Materials Division, the Hong Kong Concrete Institute, Hong Kong Fire Protection Association, Hong Kong Institution of Certified Auditors, Hong Kong Institute of Steel Construction and the Department of Civil and Structural Engineering of the Hong Kong Polytechnic University. Ms Ada Fung, Deputy Director of Housing Department, was invited to deliver the opening speech. The event focused on construction products certification and ways to enhance quality of construction products.

Geotechnical Division: Dr Chen Xiaohua was invited by the Division to attend the technical meeting on “Design-and-Build Experience on Underground Wastewater Treatment Plant with the Approach of Co-land Use Applications” to share his experience in a design-and-build project. The idea of the meeting was to protect the environment, contribute to preserving natural resources and combat climate change.

Gas & Energy Division: At the seminar on “Gas Distribution, from Metallic to Plastic” organised by the Gas & Energy Division, Ir Simon Ngo from the Hong Kong and China Gas Company Limited was invited as the guest speaker. The seminar firstly provided a general introduction of PE pipes and their applications in the underground gas distribution network

in Hong Kong, followed by key considerations and components in connecting PE pipes in a network. Ir Ngo then presented the methods and technologies to control the quality of raw materials and to assure good workmanship during construction. Control measures used by the PE pipe industry, such as life span estimation of PE pipes, were also presented.

Fire Division: The Division organised a technical visit to Beijing and Tianjin. The programme included visits to the Tianjin Fire Research Institute which is the largest comprehensive test base on the Mainland equipped with multi-functional testing laboratories. To enhance the participants’ understanding of the fire engineering design practices on the Mainland, this visit also provided an opportunity for the participants to meet engineering organisations, Government officials, local associations and construction companies in Beijing and Tianjin.

June 2010

Structural Division: The Division’s Annual Seminar on “Structural Engineering for Sustainable Development” was well attended by 400 participants. Various local and international speakers were invited to discuss issues on sustainable development, in particular how structural engineers can impact the design process and the overall development strategies. Drawing on various local and overseas projects as examples, the incorporation of sustainable elements into the design, planning, construction and operational processes were demonstrated.

Authorised Person/Registered Structural Engineer/Registered Geotechnical Engineer Committee: On the subject of revitalising old industrial buildings, the Committee invited a representative from the Development Opportunities Office of the Development Bureau to make a presentation.

Report from Divisions and Other Committees 2009/2010

DIVISIONS



▲ The 9th Annual Seminar: Speakers Answering the Questions During Q & A Session (BD)



▲ Visit Permasteelisa Curtain Wall Factory, Dongguan (BD)



▲ Technical Visit for Conservation of Diaolou in Kaiping, China (BD)

▼ Visit Fujian Nanjing Tulou (BD)



▲ A Group Photo Taken at the Joint Symposium of "Design for Sustainable Performance" (BS)



▲ Dr Q P WEI in the Seminar on "Low Carbon Building Design and Operation" (BS)

▶ "Building Energy Codes Workshop" Attracted More Than 220 Participants (BS)



▲ Civil Division Received Great Supports from Government Departments and the Commercial Sector for the Division Conference on Infrastructure Solutions for Tomorrow (CV)



▼ Joint Symposium – Chinese Wisdom and Modern Management (Series II) (CA)



▲ A Group Photo Taken at GHMT-Guangzhou, Hong Kong, Macau and Taiwan Conference in Taiwan (CV)



▶ A Group Photo in Front of the Wind Power Station (CA)





▲ The Opening Ceremony of the Energy Innovation Project Competition (EL)

▼ More Than 120 Participants Took Part in the Seminar on "LED Lighting Technology" (EL)



▼ Dr Emily P S CHAN (R) was Invited to Share the Recent Development in PV Technologies and the Latest Solar Energy Research Topics in the Technical Seminar (EN)



▲ Annual Reception with the Guest of Honour, Prof Paul LAM Delivering a Speech Titled "Some Thoughts on Environmental Management in Hong Kong" (EV)

▼ Technical Seminar with Mr LAM Chiu Ying (L4) as the Guest of Honour (EV)



▲ Technical Visit to the EMSD Headquarters (EN)



▼ Technical Visit to Sky Pier, the Hong Kong International Airport (FE)



▲ Ir CHAN Siu Hung Delivering a Talk on "Clean Energy for Hong Kong" (EL)

▼ Technical Seminar on LED Adoption, Technology and Solid State Lighting Application (EN)



▲ Dr POON Kit, Undersecretary for the Environment Bureau Delivering a Speech at the Annual Seminar (EV)



▼ Overseas Visit to the National Stadium, Beijing (FE)



▲ Overseas Visit to Tianjin (FE)



Report from Divisions and Other Committees 2009/2010



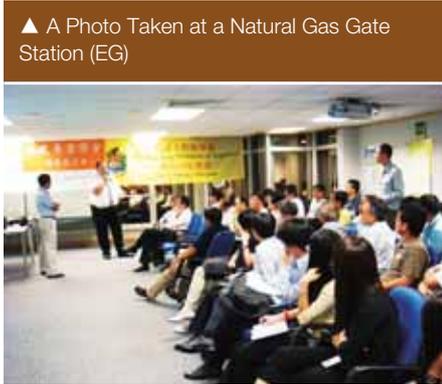
▲ A Photo Taken at a Natural Gas Gate Station (EG)



▲ Site Visit to Marine Ground Investigation Work (GE)

◀ Landslide Study Tour to Taiwan (GE)

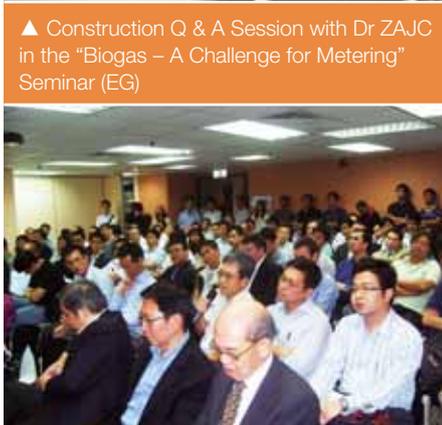
▼ Technical Seminar on "Spatial Data Infrastructure in HK" (IT)



▲ Construction Q & A Session with Dr ZAJC in the "Biogas – A Challenge for Metering" Seminar (EG)



▼ Annual Conference – The Way to Digital City – Sustainable Information Infrastructure and Solutions (IT)



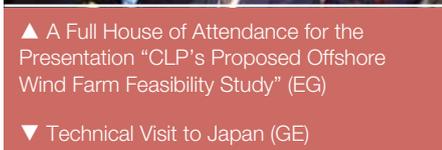
▲ A Full House of Attendance for the Presentation "CLP's Proposed Offshore Wind Farm Feasibility Study" (EG)



▲ Group Photo of Speakers and Representatives of the Organiser and Supporting Organisations of the Seminar on "Sustainable Engineering with Financial Benefits" (MI)



▼ Hong Kong ICT Awards Presentation Ceremony 2009 (IT)



▼ Technical Visit to Japan (GE)



▲ HASEL Visit (MI)



▲ Visit to Yantian International Container Terminals (MI)



▲ A Half-day Seminar on “海事专才 共创蓝天” in Guangzhou (MC)



▲ Structural Division Annual Seminar – Structural Engineering for Sustainable Development (ST)



▲ Technical Seminar on “Low Energy and Low Emission Cement for High Performance Concrete” (MT)

▼ A Photo of the Guests of Honour Taken at the MaSTEC Materials Science and Technology in Engineering Conference 2009 (MT)

▼ Guest Speaker Mr Y W LAU Presenting the Development of the Ship Recycling Convention 2009 in the Seminar (MC)



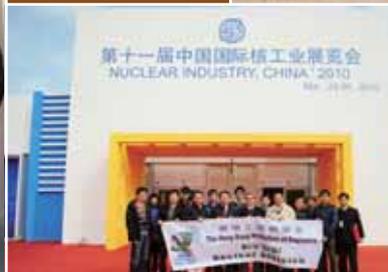
▲ Group Photo on the Annual Seminar (ST)



► Technical Visit to Institute of Nuclear and New Energy Technology, Tsinghua University (NE)



▲ Speakers of the Seminar on “Effective Noise Control Policies for Metropolis” (MC)



▲ Visit to the Nuclear Industry Exhibition in Beijing (NE)

▼ Presentation of Souvenir to Dr Gilbert BROWN (R) During the Technical Seminar on Nuclear Power in the United States (NE)



Report from Divisions and Other Committees 2009/2010

OTHER COMMITTEES



▲ Group Photo with Speakers After the Seminar on Green Ethics and Engineers (AMC)



◀ A Tour to the Visitor Centre and the Generation Facilities at Lamma Power Station (SSC)



▲ Seminar on Solid State Lighting with High Brightness LED: The Environmental-friendly Illumination Technology for a Brighter Future Attracted a Full House of Participants (AMC)



▶ Technical Seminar on British Standard 8900 Attended by 160 Participants (SSC)



◀ Young Engineers Taking Part in the International Coastal Cleanup 2009 (YMC)



▲ Participants of the Technical Visit to Chemical Plant (AMC)



▶ Heritage Tour to Arouse Members' Awareness for Heritage Preservation (YMC)



▼ YMC Overseas Delegation to Denmark 2010 (YMC)



Membership of Divisions/Committees

(as at 28 June 2010)

Division/Committee		Membership
Associate Members Committee	(AMC)	1,455
Biomedical Division	(BM)	351
Building Division	(BD)	2,437
Building Services Division	(BS)	5,204
Civil Division	(CV)	8,500
Control, Automation & Instrumentation Division	(CA)	1,579
Electrical Division	(EL)	3,508
Electronics Division	(EN)	1,622
Environmental Division	(EV)	4,753
Fire Division	(FE)	508
Gas & Energy Division	(EG)	1,173
Geotechnical Division	(GE)	4,487
Information Technology Division	(IT)	2,972
Manufacturing & Industrial Division	(MI)	1,019
Materials Division	(MT)	679
Mechanical, Marine, Naval Architecture & Chemical Division	(MC)	3,195
Nuclear Division	(NE)	267
Safety Specialist Committee	(SSC)	4,645
Structural Division	(ST)	5,813
Young Members Committee	(YMC)	4,787

