

Report from Divisions and Other Committees 2011/2012



Ir Albert K F POON,
Chairman of Biomedical
Division



Ir Alkin C W KWONG,
Chairman of Building
Division



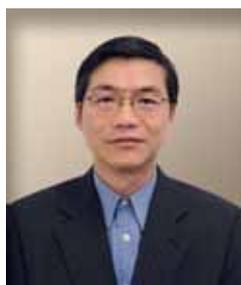
Ir WONG Chi Kwong,
Chairman of Building
Services Division



Ir Leo K K LEUNG,
Chairman of Civil Division



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



Ir Dr LEUNG Kin Man,
Chairman of Electrical
Division



Ir Albert K L CHU,
Chairman of Electronics
Division



Ir Dr Louis F S LOCK,
Chairman of Environmental
Division



Ir Paul Y C CHAN,
Chairman of Fire Division



Ir Joseph W F LAI,
Chairman of Gas & Energy
Division



Ir Edwin K F CHUNG,
Chairman of Geotechnical
Division



Ir Dr KWOK Lam For,
Chairman of Information
Technology Division



Ir LEE Kwok Keung,
Chairman of
Manufacturing & Industrial
Division



Ir Prof TAM Chi Ming,
Chairman of Materials
Division



Ir Louis K S SZETO,
Chairman of Mechanical,
Marine, Naval Architecture &
Chemical Division



Ir Dr LUK Bing Lam,
Chairman of Nuclear
Division



Ir Dr Eddie S S LAM,
Chairman of Structural
Division



Ir Gabriel L K YU,
Chairman of
Authorised Person/
Registered Structural
Engineer/ Registered
Geotechnical Engineer
Committee



Mr Martin W K SIU,
Chairman of Associate
Members Committee



Ir Joseph W J CHI,
Chairman of Safety
Specialist Committee



Dr Ernest K W TSANG,
Chairman of Young
Members Committee

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July 2011

Building Services Division: The annual symposium on “Green and Sustainable Technology Development” was held in Hunan on 1 July 2011. It provided a platform for experience sharing between Hong Kong and the Mainland, as well as to promote the development of building services engineering. Some 150 participants attended the symposium.

Gas & Energy Division: A half-day technical visit to Western Cross Harbour Submarine Water Mains between West Kowloon and Sai Ying Pun was conducted by the Division, which attracted 21 participants.

August 2011

Biomedical Division: A mission to Beijing was organised to study medical and healthcare devices with representatives of the PRC’s State Food and Drug Administration (SFDA) as speakers. The 26-member delegation visited the SFDA and other medical device companies and organisations. The study mission facilitated face-to-face sharing between regulatory personnel and device manufacturers.

Geotechnical Division: The 14th Taiwan Geotechnical Conference was held in Taoyuan and the theme was “Disaster Prevention and Sustainability”. It has been one of the largest events in Taiwan’s geotechnical field and Ir Albert Ho and Ir Y C Chan of the HKIE were invited to deliver keynote speeches. The Division and the Hong Kong Geotechnical Society sponsored five young engineers to attend the conference.

September 2011

Materials Division: With the support of the Professional Services Development Assistance Scheme, the Division organised a technical visit to Green Island Cement Ltd’s Tap Shek Kok plant in Tuen Mun. It is the only integrated cement manufacturing facility operating in Hong Kong. The visit included a seminar from which participants gained a good understanding of the new technologies for cement production, from raw materials grinding to the final process of grinding clinkers into cement.

October 2011

Environmental Division: The Division’s annual reception, which was held in mid-October, attracted more than 100 participants. Prof K C Ho, Chairman of the Advisory Committee on the Quality of Water Supplies, delivered a talk at the reception, which provided a good opportunity for participants and guests to share views and experience as well as renew friendships. Book prizes were also presented to young members whose technical reports were selected for publication in *Hong Kong Engineer*.

Information Technology Division and Associate Members

Committee: A 30-member delegation was jointly organised by the two Division/Committee to visit the Yangjiang Nuclear Power Station.

November 2011

Building Services Division: The symposium on “Integrated Building Design in the New Era of Sustainability” was held. International and renowned local speakers were invited to deliver talks on various advances in building services engineering. Sub-themes of the symposium included quality and sustainability; conservation of energy and environment; facility management and codes and regulation.

Civil Division: The Division’s annual dinner was successfully held with Mr Andrew Kam, Managing Director of Hong Kong Disneyland, as the guest of honour. The Civil Engineering Paper of the Year Award 2011 was also presented at the dinner. More than 500 participants and guests joined the dinner. The highlight of the evening included the participation of the HKIE President Ir Chan Fuk-cheung and Ir David Sorton of the MTR in a drum performance and the Big Gig Band Team’s flying colours show.

December 2011

Biomedical Division: A technical seminar on “Medical Technology Management: Practice, Organisation and Education” was conducted by Mr Anthony Chan, Programme Head of Biomedical Engineering Technology at the School of Health Sciences, British Columbia Institute of Technology. The seminar gave an overview of the fundamental concept of medical technology management, the relevant good practices and management structure, as well as the importance of education.

Materials Division: MaSTEC 2011 cum Hong Kong Concrete Institute’s annual seminar, “Construction Materials in the Next Decade: Innovation and Sustainability”, was held to address a wide variety of topics covering advances in high-performance concrete, solutions for building maintenance and advanced structural nano materials. Mr C K Au, Director of Buildings, was one of the guests of honour at the event.

Associate Members Committee: A 19-member delegation was organised to visit the Shanghai Tower construction site and the moon boat-shaped Saudi Arabia Pavilion at the Shanghai Expo site.

Young Members Committee: As part of the community outreach programme, “To Learn, To Give and Have Fun”, a magic and communication workshop was arranged to equip participants for voluntary work. Two visits to the elderly were subsequently arranged.

January 2012

Fire Division: A fire engineering forum was organised to provide an open forum for discussion between the authorities and fire engineering professionals on the essential elements of a good fire engineering report. Speakers from the Buildings Department, Fire Services Department, academics and industry practitioners expressed their views on the preparation and submission of fire engineering reports. The 140 participants then went through a case study with the speakers on an open kitchen design using the fire engineering approach.

Mechanical, Marine, Naval Architecture & Chemical Division: The certificate course on “Noise Control, Road Traffic Noise Assessment, Road Traffic Noise Measurement and Product Noise Assessment” was jointly organised by the Division, the Hong Kong Institute of Acoustics and American Society of Mechanical Engineers – Hong Kong Section. It was a structured course consisting of 19 sessions on the basic concept of acoustics, traffic noise assessment and measurement, and product noise assessment, including a practical session on three-dimensional noise assessments. A total of 37 participants took part in the course.

Safety Specialist Committee: A student projects competition was organised by the Committee to promote safety and health in the engineering industry, to provide a platform for engineering students to demonstrate their knowledge as well as to share their learning experience in safety, health and engineering. Some 70 participants took part in the competition.

February 2012

Civil Division: To serve the community through the application of civil engineering knowledge and promote the engineering profession to the general public, the Volunteer Service Sub-committee of the Division launched a new programme, “工程see”, in collaboration with the Hong Kong Federation of Youth Groups (Farm Road Centre). Young civil engineers were recruited as mentors to the participating youth, who were divided into groups under the mentors to learn about the infrastructure, facilities and environment surrounding the community. Participants were encouraged to make suggestions for caring for the environment.

Control, Automation & Instrumentation Division: The Division organised the annual symposium, “Advanced Technology for Quality Living”, to provide a platform for engineers, academics, industrial managers, experts and related professionals to share their invaluable experiences and insight on the subject. Speakers from the Electrical and Mechanical Services Department, Housing Authority, MTR, CLP, HK Electric and other organisations presented talks on nine topics related to the theme of the symposium.

Electrical Division: The Wind Turbine Model Design Contest was organised to offer a great opportunity for students to develop creative ideas for wind turbine design. A field trip to a commercial wind farm in Yunnan was also organised for the winners in July 2012.

March 2012

Biomedical Division: The Division organised a seminar on “COMSOL Multiphysics Application in Biomedical Engineering” to provide an overview of the multiphysical process as well as its applications in microfluidics, biomechanics and imaging technology. It also included hands-on training on finite element method (FEM) software – the “COMOSL Multiphysics”.

Building Division: The 11th annual seminar, on “Advanced Building Technology for Better Living”, was held with some 300 participants taking part in the event. The programme featured presentations by seven outstanding speakers.

Building Services Division: A 35-member delegation was organised to visit Shanghai, Suzhou and Nanjing as part of the Division’s 25th anniversary programme. The delegation visited the Shanghai World Expo site, a district cooling plant at Suzhou Industrial Park, Nanjing Anlev Elevator Ltd, Nanjing Natural Gas Company and Nanjing Greenland Square Zifeng Tower (a 450m tall super-high rise). Members were delighted at the opportunity to learn more about the latest developments in building services technology in the Mainland.

Electronics Division: A technical visit to Route 8 Tsing Sha Control Area was organised at which the features of the traffic control surveillance system (TCSS) were shown to participants. A presentation on Route 8 TCSS Architecture was delivered by Mr Ernie Yung of Delcan International Corp following the visit.

Fire Division: The Division organised an overseas visit to Taiwan which attracted the participation of 34 members. The delegation visited the Intelligent Living Space Exhibition Centre in Taipei, the training centre of the National Fire Agency of the Ministry of the Interior in Taichung City and the National Kaohsiung First University of Science and Technology in Kaohsiung City. The visit provided opportunities for participants to share Taiwan’s experience in the development of intelligent buildings, training facilities for firefighters and research on the fire safety of tunnels.

Geotechnical Division: The Division took part in a community planting day organised by the Geotechnical Engineering Office of the Civil Engineering and Development Department at a landslip prevention and mitigation programme site in Tung Chung. More than 300 representatives from various government departments, District Councils and environmental groups as well as primary school students supported the event and 600 trees and 1,200 shrubs were planted at the site.

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Materials Division: Distinguished speakers from Russia and the Mainland as well as local experts were invited to “An Era of Landmark Construction – Conference on New Construction Materials” to share the latest applications of materials and technologies in construction projects, in particular, in Russia, the Mainland, Hong Kong and Asia at large. A roadmap of materials development was also outlined during the conference.

Mechanical, Marine, Naval Architecture & Chemical Division: The Division organised two student competitions. The “Young Inventor Competition 2012” was organised to provide an opportunity for secondary school students to show their innovation and creativity in relation to engineering and, in the long run, to nurture young inventors and encourage new inventions. A total of 250 participants took part in the competition. Running in parallel was the “Design for Elderly Competition 2012,” which encouraged new designs made especially for the elderly. A total of 150 participants took part in the meaningful event.

Nuclear Division: One year after the Fukushima nuclear accident, a conference on “The Way Forward with Safety and Risk Engineering” was organised by the Division. Over 200 participants attended the conference. A keynote address on “Insights, Thoughts and Effects of the Fukushima Accident” was delivered by Dr J S Ren, who is a member of the Nuclear Safety Expert Commission of the PRC’s State Ministry of Environmental Protection. The Division also organised a visit to the nuclear power stations at Daya Bay and Lingao.

Young Members Committee: A 16-member delegation travelled to Canada for a trip entitled “Engineering the Most Livable City in the 21st Century”, to learn about various practices in Vancouver for improving the people’s quality of living. The Committee also jointly organised the HKIE Joint Institutes Competition for tertiary students with four of the Institution’s Student Chapters, namely City University of Hong Kong; The Hong Kong University of Science and Technology; Hong Kong Institute of Vocational Education (IVE) (Shatin) and IVE (Tsing Yi). Participants were requested to submit proposals on their ideal sustainable campus.

April 2012

Building Division: A total of 45 members took part in a four-day visit to Jinan. The visit was co-organised by the Division, the Hong Kong Institute of Real Estate Administrators and Real Estate Services Training Board of the Vocational Training Council.

Civil Division: The international conference on “Innovation and Creativity of Infrastructure Development for Quality Cities” was a three-day event comprising a two-day conference followed by a series of site visits in both Hong Kong and the Mainland. A number of renowned speakers from Asia, Europe and the US shared insights into their innovative ideas, which have contributed to the development of a quality city. The conference was well-received by the 200 participants.

Control, Automation & Instrumentation Division: The annual dinner has been the signature event of the Division and is the occasion for recognising the significant contribution of Committee Members and conveying the Division’s great gratitude to their partners and sponsors. Dr Rebecca Lee was invited to present a talk on “Applying Frontier Instrumentation Technologies in Exploring the Extremes of the Earth” at the dinner.

Electronics Division: The symposium on “Lighting – Enabling Technologies for LED Lighting” was jointly organised by the Division and The Hong Kong University of Science and Technology. Speakers from the commercial as well as academic sectors addressed a total of 200 participants at the symposium.

Environmental Division: The annual seminar, one of the Division’s annual grand events, was successfully held at the Hong Kong Convention and Exhibition Centre. The seminar received an overwhelming response and more than 300 delegates from different sectors registered for the event. Ms Anissa Wong, Permanent Secretary for the Environment, was invited to deliver a keynote speech on the occasion.

Gas & Energy Division: A technical seminar on “Tri-gen Project Development in Mainland China” was organised by the Division. The Division’s Chairman, Ir Joseph Lai, was invited to share his experience of designing and developing a tri-gen project in Xian.

Information Technology Division: “The Hong Kong ICT Awards 2012 (Best Public Service Application Award)” was successfully organised to encourage development and implementation of ICT solutions in government departments and non-government organisations to better meet the general public’s demand in respect of public service delivery. The Planning Department’s “Development of the GIS-based site search tool” was selected for the Grand Award and a technical seminar was subsequently arranged for a presentation on the winning project.

Manufacturing & Industrial Division: A technical visit to the Pearl River Delta covering the Shenzhen Polytechnic and Da Chan Bay was organised and attended by five students, one guest and eight members.

Nuclear Division: The symposium on “Safety Management and Emergency Responses to a Serious Nuclear Accident” was jointly organised by the Division and the Department of Mechanical and Biomedical Engineering of City University of Hong Kong. The keynote speakers included Prof Way Kuo, President of City University of Hong Kong, and officers from various government departments such as the Hong Kong Observatory, Water Services Department, Food and Environmental Hygiene Department and the Security Bureau. Around 200 participants registered for the symposium.

Safety Specialist Committee: A one-day symposium on “Safety in the Construction Industry” was jointly organised by the Committee and the Department of Real Estate and Construction of The University of Hong Kong. Prominent speakers from the construction industry were invited to share the latest information and measures to enhance safety in the construction industry. The symposium attracted 200 participants.

Structural Division: The “Structural Excellence Award 2012” set up to promote excellence in structural engineering and the achievement of structural engineers was successfully held in April. Winners of the Award were selected taking into account the judging panel’s observations during site visits and the finalists’ presentations. Results of the Award were announced at the annual general meeting of the Division. In the same month, senior members of the Joint Structural Division led the annual visit, this time to Seoul, South Korea, which began with a technical seminar at Korea University. Delegates enjoyed the fruitful exchange with the delegates of the Korean – American Scientists and Engineers Association and Korean Council on Tall Building and Urban Habitat. The trip concluded with visits to two construction sites, for the Lotte Super Tower and Dongdaemun Design Plaza respectively.

May 2012

Building Division: The Division’s annual dinner attracted a full house of 400 guests, sponsors and participants. Mrs Carrie Lam, the then Secretary for Development, addressed the occasion as the guest of honour.

Electrical Division: With the aim of encouraging initiatives to enhance energy efficiency and promote energy efficiency to the community, the “Energy Innovation Fund Project” competition for secondary school students has been organised by the Division since 2009. A total of 180 students competed for this year’s awards.

Electronics Division: The Division’s annual dinner was well-attended by some 150 participants and VIP guests including Ir Prof Philip Chan, Deputy President and Provost of The Hong Kong Polytechnic University, members of the Legislative Council and representatives from various government departments.

Fire Division: The Division’s annual symposium, “Development and Implementation of Fire Engineering for the Next Decade”, was well-attended by 250 participants. The symposium served to facilitate exchange among local and overseas fire engineering experts on the recent fire engineering-related research. The symposium’s guest of honour was Mr K S Yeung, the then Chairman of Hong Kong Housing Society.

Gas & Energy Division: A technical talk on “What can engineers do in future?” was organised after the Division’s annual general meeting. Ir Frank Chan, Director of Electrical and Mechanical Services, made a presentation and shared his insight into the future development of Hong Kong’s engineering industry.

Manufacturing & Industrial Division: The Division organised a site visit to HACTL to enhance participants’ knowledge of logistics management at an air cargo terminal.

June 2012

Manufacturing & Industrial Division: The project presentation and closing ceremony of “YEP!2011” was well-attended by 45 “Yeppers” and the HKIE members. Talks on “New Discipline of the HKIE – Logistics and Transportation” were followed by presentations on job interview tips and Scheme “A” training in the Manufacturing & Industrial Discipline. There were group projects presentations by the Yeppers and the best project presentation group and best presenter were selected for awards.

Structural Division: The “Quality Building Award” (QBA) was founded in 2001 to acknowledge building teams that develop buildings of outstanding quality. The theme of QBA 2012 was “Building Excellence for the Future”. Various awards, such as the Quality Structural Engineer Award, were set up to pay tribute to professionals who made great efforts to contribute to society at large.

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▼ Ir Alkin KWONG (Chairman) and Ir Adam CHOY (Organising Committee Chairman) (front row, left 6th-7th) with guests and speakers at the 11th Annual Seminar 2012 (BD)



▼ Technical Visit to the Beijing Medical Fair for Biomedical Engineering Technology Appreciation (BM)



▼ Dr Lynn AN introducing the biomedical application of COMSOL at the seminar on COMSOL Multiphysics Application on Biomedical Engineering (BM)



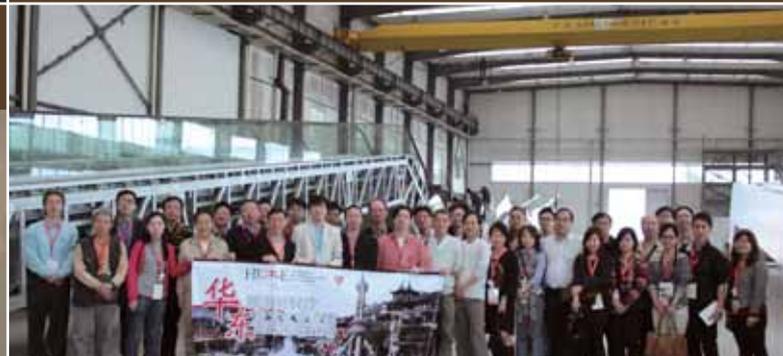
▼ Site Visit to Lotto Super Tower in Korea (ST)



▲ Committee Members led by Chairman Ir Alkin KWONG proposing a toast to all guests and members at the Annual Dinner 2012 (BD)



▲ Organising Committee and helpers at the symposium on Integrated Building Design in The New ERA of Sustainability (BS)



▲ A group photo of all participants taken during the Delegation to Shanghai-Suzhou-Nanjing (BS)



▲ Quality Building Award 2012 (ST)

▼ Visit to the Green Island Cement Factory (MT)



▼ Mrs Carrie LAM delivering a welcome speech to the audience at the International Conference 2012 (CV)



▲ President of the HKIE in the Drum Show at the Annual Dinner (CV)



▼ A group photo of representatives of the Organisers with Guests of Honor, Mr AU Choi Kai, Director of Buildings (middle) and Prof Robert LI, City University of Hong Kong (left 1st) taken at MaSTEC 2011 cum HKCI Annual Seminar - Construction Materials in the Next Decade: Innovation and Sustainability (MT)



▲ The volunteer service programme - "工程See" attracted a number of youngsters (CV)

▼ The Organising Committee Members and Guests at the Symposium 2012 (CA)



▲ Toasting by the Committee at the Annual Dinner (CV)

▼ A group photo taken at the Annual Dinner (CA)



▲ A group photo of the winners together with the Chairman, Ir Dr K M LEUNG (back row, right 4th) and the Organising Committee Members taken at the Wind Turbine Model Design Contest (EL)

▼ Participants presenting their project to the judging panel at the Energy Innovation Fund Project Competition (EL)



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▼ The HKIE President, Past Chairmen and Committee Members of the Division proposing a toast to the guests and participants at the Annual Dinner (EN)



▲ A demonstration during the Symposium on Lighting-Enabling Technologies for LED Lighting (EN)

▼ A group photo of the Guest of Honour, Venue Sponsor, Organisers and speakers taken at the Symposium on Lighting-Enabling Technologies for LED Lighting (EN)



▲ A group photo of participants taken at the Design for Elderly Competition 2012 (MC)

▼ A group photo taken during the Technical Visit to the Western Cross Harbour Submarine Water Main between West Kowloon and Sai Ying Pun (EG)



▼ Ir Frank CHAN, Director of Electrical and Mechanical Services, conducting the Technical Talk on "What can engineers do in future" (EG)



▲ A candidate demonstrating the design at the Design for Elderly Competition 2012 (MC)

▼ Annual Symposium (FE)



▲ Overseas visit to Taiwan (FE)

▼ A group photo of Ir Albert HO and the five Hong Kong young engineers taken at The 14th Taiwan Geotechnical Conference (GE)



▲ A group photo taken at HACTL during the technical visit to HACTL (MI)

▼ Mrs Carrie LAM (middle) officiating at the Community Planting Day (GE)



▲ A group photo taken at the "YEP!2011" Project Presentation and Closing Ceremony (MI)

▼ A group photo with CAST (EV)



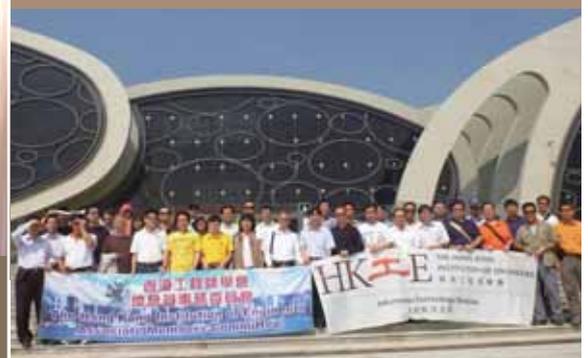
▲ A group photo of speakers and Organising Committee Members taken at the Annual Seminar (EV)

▼ Ms Anissa WONG, Permanent Secretary for the Environment, delivering the Keynote Address at the Annual Seminar (EV)



▲ Technical seminar on the development of the GIS-based site search tool (IT)

▼ Yang Jiang Nuclear Plant Visit (IT)



▼ A group photo taken at the Daya Bay Nuclear Power Station (NE)



▲ A group photo of delegates of AMC and IT Division taken at Yangjiang Nuclear Power Station (AMC & IT)

▼ Prof Way KUO, President of City University of Hong Kong, presenting his keynote talk entitled "Risk Identification through Mathematical Modeling" at the Symposium on Safety Management and Emergency Responses to a Serious Nuclear Accident (NE)



▲ Deputy Chairman, Ir Jeffrey YUNG, presenting a souvenir to the speaker, Mr Victor KWONG, for the One-day Symposium on Safety in Construction Industry (SSC)



▲ A group photo of delegates of AMC and SSC taken at the Shanghai Tower Construction site during the Shanghai Technical Visit (AMC & SSC)

▼ A group photo of the doctor group winner and the representative of the sponsor organisation taken at the Student Projects Competition (SSC)



▲ Members attending the magic workshop in preparation of the visit to the elderly (YMC)

▶ Delegates attending the Reception organised by Association of Professional Engineers & Geoscientists during the YMC Overseas Delegation 2012 to Canada (YMC)



Membership of Divisions/Committees

(as at 21 June 2012)

Division/Committee		Membership
Associate Members Committee	(AMC)	1,281
Biomedical Division	(BM)	406
Building Division	(BD)	2,583
Building Services Division	(BS)	5,425
Civil Division	(CV)	9,029
Control, Automation & Instrumentation Division	(CA)	1,563
Electrical Division	(EL)	3,549
Electronics Division	(EN)	1,672
Environmental Division	(EV)	5,072
Fire Division	(FE)	713
Gas & Energy Division	(EG)	1,253
Geotechnical Division	(GE)	4,734
Information Technology Division	(IT)	2,925
Manufacturing & Industrial Division	(MI)	1,065
Materials Division	(MT)	740
Mechanical, Marine, Naval Architecture & Chemical Division	(MC)	3,460
Nuclear Division	(NE)	296
Safety Specialist Committee	(SSC)	5,836
Structural Division	(ST)	6,133
Young Members Committee	(YMC)	5,411

