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## Message from the President

I have the great honor of being elected as the President at our 12th Annual General Meeting held in November, 2010 to serve alongside our dedicated Board members.

From an international group holding its Inaugural General Meeting in 1997 to its upgrading to a Section approved by the ASCE Board of Direction in 1998, the Hong Kong Section has grown to a 450 strong membership local society, with engineers from different branches of Civil Engineering - structural, geotechnical, construction, environmental, materials, transportation, water resources, project management, etc. The mission of Hong Kong Section is to augment ASCE membership benefits for our local members and promote and advance civil engineering in Hong Kong and in the mainland, China at large.

Looking back, the Section has made great efforts to enhance benefits and opportunities for our members through offering quality continuing professional development courses, workshops and technical seminars, organizing site visits to infrastructure construction projects in Hong Kong, Macau, Shenzhen and Guangzhou, supporting various events of our international student groups in Hong Kong, Macau, Beijing and Shanghai, and offering Best Final-year Project and Best Master Thesis awards to students reading civil engineering in Hong Kong and Macau tertiary institutions. This newsletter specifically summarizes our functions for the period 2010-2011.



It is good news that formal approval of the establishment of our third and fourth International Student Groups at the University of Macau and at Tongji University (Shanghai) of China respectively, already in active operation under the supervision of Hong Kong Section, is forthcoming from ASCE Headquarters this year. The Section has pledged full support to them in addition to the two existing groups at The Hong Kong University of Science & Technology and at Tsinghua University (Beijing) of China.

Looking ahead, the Hong Kong Section will continue to provide great value to our members and serve the communities where we live and work, and will strive, through collaboration with local and international civil engineering organizations, to elevate the stature and the professional image of civil engineers among the public.

Lastly, I wish all of you a safe and enjoyable summer!

Jun Yang, PhD  
President of Hong Kong Section

# Our 12th Annual General Meeting and 13th Annual Dinner

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## The Annual General Meeting

The 12th Annual General Meeting was held on 11 November 2010 at the World Trade Center Club. The retiring President (2009-2010), Prof Limin Zhang, delivered his report on the activities of the session. Highlights included well-responded Continuing Professional Development (CPD) courses, site visits and technical seminars. Special thanks were dedicated to the guest speakers and Board Directors who were engaged in arranging these CPD functions. Limin also expressed sincere gratitude to Ove Arup & Partners Hong Kong Limited for their kind assistance to the ASCE HK Section by offering meeting venue and other facilities for our Board meetings.

New officers of the Board of Direction for Session 2010-2011 were elected during the Meeting.



Members of the Board of Direction for Session 2010-2011 in the photo taken after the Annual General Meeting on 11 November 2010:(Starting from the left)

Dr Victor Wong (President-Elect), Mr Johnson Po (Co-opted Director), Dr Barbara Siu (Director), Dr K.T. Wan (Director), Dr Yu Wang (Vice-President), Dr Jun Yang (President), Dr Patrick Cheung (Co-opted Director), Prof Limin Zhang (Immediate Past President), Dr Ryan Yan (Treasurer), Mr Paul Cheung (Secretary), Dr Hing Ho Tsang (Director).

## The Annual Dinner

Many honorable guests and fellow members attended the Annual Dinner following the AGM, including delegations from the International Student Groups (ISG) of the Hong Kong University of Science and Technology and the University of Macau. Guests and members had a warm mix and exchange of ideas. Our Guest of Honor, Professor Chack Fan Lee, Director of HKU School of Professional and Continuing Education, delivered a pleasant speech on the magnificent Three Gorges Dam project in China, highlighting the key features and the challenges to civil engineers. During the dinner, the Section's biennial Best Master Thesis Award and annual Best Final Year Project Award were presented by Ir Dr The Hon Raymond C.T. Ho, Representative of Engineering Functional Constituency of the Legislative Council.



Prof C.F. Lee presenting the Three Gorges Project in China before the dinner



Our honorable guests and fellow members in the annual dinner

## Best Master Thesis Award 2010

First Prize: Miss LI Yan Qiu

Institute: The University of Hong Kong

Thesis title: Monitoring, Analyzing and Modeling Hydrological Processes over a Headwater Catchment in Hong Kong

Honourable Mention: Mr LIU Yau Hui

Institute: The Hong Kong Polytechnic University

Thesis title: Optimal Operating Conditions for the Production of Biodegradable Polymer



Ir Dr The Hon Raymond C.T. Ho (right), the Awardees of the Best Master Thesis Award 2010 and thesis supervisor Dr Ji Chen of HKU

## Best Final Year Project Award 2010

Student: LI Man Kit

Institute: Chu Hai College of Higher Education

Project title: Study on the Characteristics of Road Traffic Noise in Tsuen Wan District

Student: LU Ka Kin

Institute: The Hong Kong Polytechnic University

Project title: Developing Structural Understandings through Self-guided Studies on Structural Mechanics and Design of Steel Structures

Student: PUN Man Hou

Institute: The University of Macau

Project title: Assessment of the Particulate Pollution in Macau Using a Mobile Monitoring Platform

Student: SU Meini

Institute: The University of Hong Kong

Project title: Strengthening of Stainless Steel Tubular Structural Members Using Fiber Reinforced Polymer

Student: YIP Chun Leung  
Institute: City University of Hong Kong  
Project title: Structural Model Updating and Structural Health Monitoring Utilizing Experimental Data

Student: YU Meng  
Institute: Hong Kong University of Science and Technology  
Project title: Optimal Seismic Resistant Design of Modern Tall Buildings



President-Elect Victor Wong sharing his experience with students on IVE Open Day

## Outreach to Secondary School Students

(8 & 10 December 2010)

Dr K.T. Wan, Board Director of ASCE Hong Kong Section, talked with the secondary school students during the Career Day of Ching Chung Hau Po Woon Secondary School and Lion College. The audience were the high school students and teachers. The purpose of the talks was to promote civil engineering profession to the potential future engineers their high school study. Most students cannot distinguish the roles of civil engineers and architects. Also, they did not realize the hard work done by civil engineers for their convenient daily life. Dr Wan introduced the efforts of civil engineers behind the development of a metropolitan city from the transportation infrastructures and landmark structures to water resources management, flood control and landslide prevention. After the introduction, Dr Wan talked about the academic requirements of the various bachelor degree programs in the typical career paths of civil engineers in Hong Kong. In the question and answer session, the students showed their interests in the prospect of the civil engineering industry and the admission requirements of various local institutes.



Dr K.T. Wan talking to Form 4 to Form 6 students of Lion College



A group photo of the Best Master Thesis Award and Best FYP Award winners with their supervisors and Ir Dr Ho

## Section Function Review

### Visit to the Open Day of Hong Kong Institute of Vocational Education (IVE) Tsing Yi

(20 November 2011)

On 20 November 2010, President-Elect Victor Wong and former Co-opted Director C.S. Li represented Hong Kong Section as honorary speakers in an information talk on the Open Day of The Hong Kong Institute of Vocational Education (IVE) Tsing Yi, at the invitation of its Department of Construction.

The first part of the talk was presented by C.S. on the design and construction details of "The Masterpiece" at Tsim Sha Tsui, one of the award-winning projects of Ove Arup & Partners Hong Kong Limited. Then Victor followed up with an interesting account of his valuable experience as a traffic engineer. The talk was well received as evidenced in the keen responses from the students present during the Q&A session.



Dr K.T. Wan introducing the civil engineering profession to the Form 4 to Form 6 students of Ching Chung Hau Po Woon Secondary School

## Visit by Macau Institute of Engineers (Young Members Division)

(15 January 2011)

On 15 January 2011, a twenty-member delegation of the Macau Institute of Engineers (Young Members Division) came to Hong Kong to visit our Section. After the meeting, under the arrangement of President-Elect Victor Wong, our guests then visited the Drainage Services Department's megascale Hong Kong West Drainage Tunnel project involving upgrading the flood protection facilities in northern Hong Kong by building a 11-km long main drainage tunnel extending from Tai Hang to Cyberport. The afternoon session was a visit to the offices of Ove Arup & Partners Hong Kong Limited. Victor and Co-opted Director Johnson Po on behalf of the Section introduced the delegation to the staff of the consultant firm. The delegates enjoyed an interesting briefing about a challenging rail project undertaken by the firm. The visit ended with a guided tour of the offices.



Our Macau visitors during the site visit on 15 January 2011

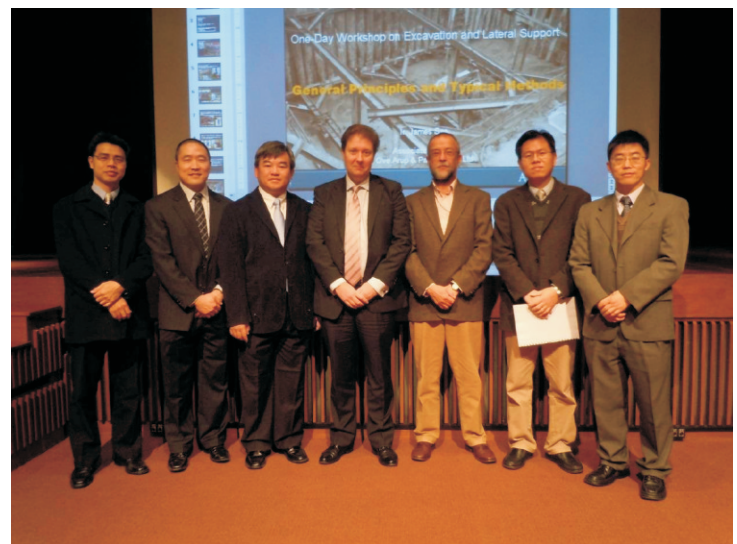
## One-Day Workshop on Excavation and Lateral Support

(21 January 2011)

A one-day continuing professional development workshop on the topic "Excavation and Lateral Support" was held on 21 January and delivered by five guest speakers with expertise in geotechnical engineering. It attracted a record high attendance of more than 210 participants.

After a brief introduction by Dr Jack Pappin of Ove Arup & Partners, Mr James Sze also of ARUP gave a lecture on the general principles and typical methods for excavation and lateral support in Hong Kong. Mr Ian Askew and Mr David Sein both of Lambeth Associates followed to talk about designing for safety on site.

In the afternoon session, Mr Jack Yip of ARUP presented the analysis and design methods according to the new code C580. Then Mr Sze introduced to the audience the instrumentation methods commonly used. Finally, Dr Pappin shared his vast experience with the participants. In conclusion, the workshop was a success and there were calls for a repeat of this valuable function for those whose late registrations were declined.



Group photo of the Guest Speakers, accompanied by President Dr Jun Yang (second from right) and Prof Limin Zhang (first from right), and HKIE Geotechnical Division Chairman Ir Ringo Yu (third from left)

## Site Visit to the Shenzhen Kingkey Financial Centre

(19 February 2011)

A visit to the construction site of the Kingkey 100 Tower (formerly known as Kingkey Financial Centre) in Shenzhen was carried out on 19 February with Board Co-opted Directors Johnson Po and Patrick Cheung leading the delegation. The visit was well supplemented with a detailed presentation of the engineering features of the 100-storey building with structural slenderness ratio 9.5, given by project engineer of Ove Arup & Partners.



The Shenzhen Kingkey 100 Tower nearing completion

construction of a 11-km main drainage tunnel supplemented with 34 stormwater intakes and 8-km long adits. The 20-member ASCE team was thankful to the site staff of the project consultant, Ove Arup & Partners, for their informative project overview of the TBM construction methods, the intake shafts, the monitoring systems, and the construction challenges in building the tunnel portals and connecting adit tunnels.

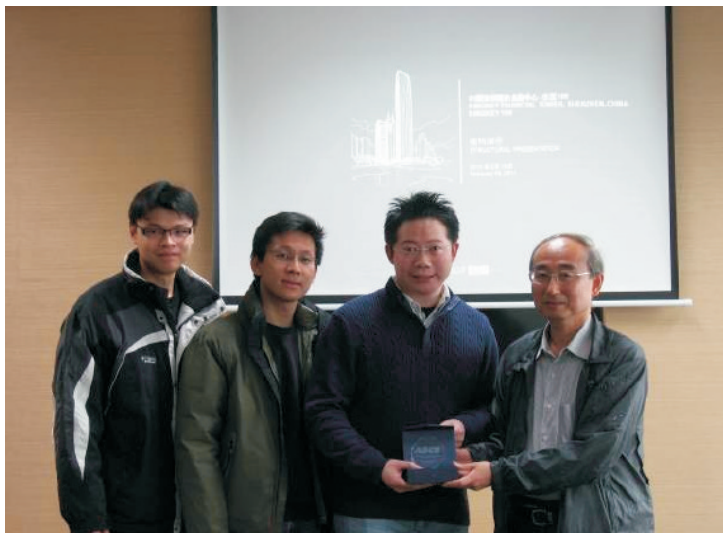


The Hong Kong Section team during their 26 March site visit

## China Civils in Guangdong Province Visited by our Board of Direction

(14 May 2011)

Every other year, the Hong Kong Section Board of Direction used to make a friendly visit to our neighbouring civil engineering society, the Guangdong Provincial Institute of Civil Engineering & Architecture. On 14 May, a delegation comprising President-Elect Victor Wong, Vice President Yu Wang, Secretary Paul Cheung, and Past President Patrick Cheung took a morning train to Guangzhou, to meet with the Institute's senior officials for exchange of information and discussion on future cooperation. The meeting was followed by a site visit to the famous Haixinsha Park, the location of the spectacular grandstand where the reputable 2010 Asian Games opening and closing ceremonies were held. Special thanks were due to the hosts who arranged for the Park's contractor to give an interesting brief on the construction of this remarkable project.



Presenting souvenir to ARUP engineers during the site visit

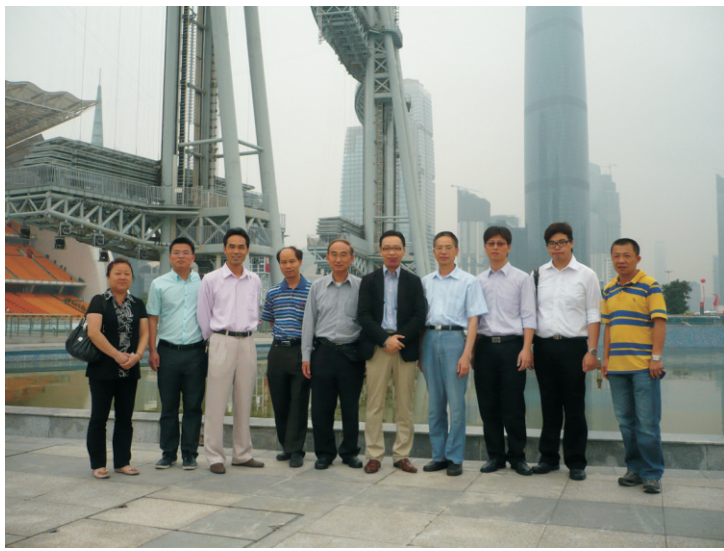
## Site Visit to Hong Kong West Drainage Tunnel

(26 March 2011)

On 26 March 2011, the Hong Kong Section organized a technical visit to the Hong Kong West Drainage Tunnel construction site. This ambitious project of the Government's Drainage Services Department involves



Haixinsha Park for 2010 Asian Games opening and closing ceremonies



The Hong Kong Section delegation with the Guangdong hosts at Haixinsha Park



Hong Kong Section members and the site supervisory staff at Tsz Shan Monastery

## Site Visit to Tsz Shan Monastery

(21 May 2011)

In a Saturday morning, members of the Hong Kong Section visited the Tsz Shan Monastery construction site at Ting Kok Road, Tai Po, led by the Co-opted Directors Johnson Po and Patrick Cheung. The key feature of this project was a just completed 76 meter high Guan Yin statue made of 350-ton structural steel frame with 580-ton bronze cladding being installed. The site staff of the project consultant kindly explained to the visitors the various challenges they encountered and subsequently solved successfully.



The completed steel frame of Guan Yin statue at Tsz Shan Monastery

## Technical Visit to Guangzhou

(23-25 June 2011)

In June 2011 our Section organized a 3-day study tour of major infrastructure projects newly completed in the city of Guangzhou (previously known as Canton), the bustling capital of the Guangdong Province of southern China and host city of the much acclaimed 2010 Asian Games. Comprising 23 building professionals with Past President Patrick Cheung as leader, the team enjoyed a rewarding excursion thanks to the friendly assistance by the officials of Guangzhou Municipal Construction Office and Guangdong Provincial Institute of Civil Engineering & Architecture.

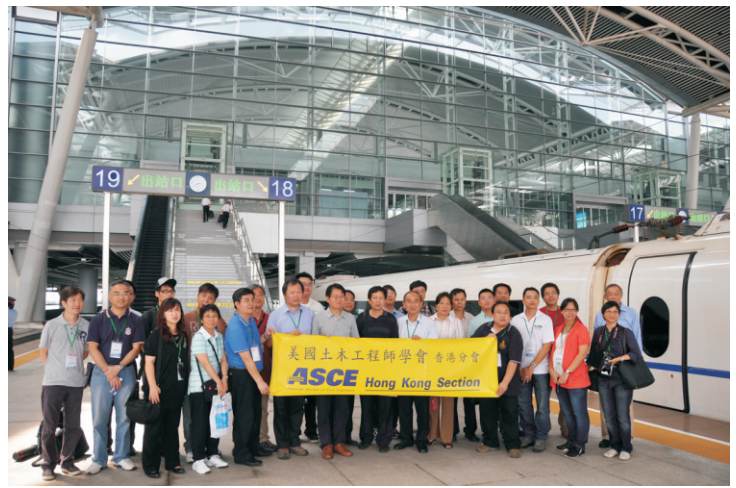
An academic seminar at South China University of Technology was presented to the team by lead designers of the university's Architectural Design & Research Institute. Their enlightening talks on the key design features of four notable projects undertaken attracted keen responses from the attendees:

- China Pavilion in the Expo 2010 Shanghai
- University of Macau New Campus on Hengqin Island
- Guangzhou International Finance Center
- Guangzhou University Tower

The team attended another useful learning session at the extensive Guangzhou University Town (officially known as Higher Education Mega Center in Panyu District, encompassing new campus facilities for nine major universities) where an in-depth presentation was delivered by the Center's officials, followed by visits to the magnificent Velodrome and the historical Lingnam Cultural Image Park.

The visitors enjoyed a night cruise along the Pearl River to view the sparkling lights from the scenic riverside landmark buildings and the interweaving bridges, old and modern. On the following day the team met with the construction staff of several show-piece projects to understand more about the engineering challenges:

- The 600m high iconic Canton Tower (nicknamed 'Slim Lady'), Guangzhou's new television & radio broadcasting transmission tower with 450m main structure plus 150m roof antenna, well known for its unique structural system to achieve a twisting form with tapered waist 27m wide at its narrowest
- The 432m high Guangzhou International Finance Center with curved elevation
- The Floral City Square, the city's new downtown cultural and art square flanked on two sides by Guangdong Provincial Museum, Guangzhou Library, and Guangzhou Opera House
- The Haixinsha Park for the 2010 Asian Games opening and closing ceremonies
- The enormous Guangzhou South Station for high-speed rail lines



The team at Guangzhou South High-speed Railway Station

## Student Group Activities

### Lunar New Year E-card Design Competition 2011

(January 2011)

A Chinese Lunar New Year E-card design competition open to student members is organized by the Section every year. By sending the winning design E-card to our members we express our warmest greetings to them. The result of the E-card Design Competition 2011 was released in January 2011.



The team with seminar speakers at South China University of Technology campus



E-card competition champion design (winner: Ms Ka Wai SIN of The Hong Kong University of Science & Technology)



The team at Floral City Square with Canton Tower and Haixinsha Park in the background

### Tongji University International Student Group Visited by Past President of the Section

(November to December 2010)

Formation of the Tongji University (in Shanghai, China) ISG in November 2008 was supported by the Hong Kong Section. During his academic visit to the university as



visiting professor, Past President Patrick Cheung attended three evening meetings with the students on 5 & 20 November and 16 December 2010. The meetings covered the students' expectation of ASCE and their ISG, learning English as a second language, and lecturing on the technical details of building projects .



Tongji ISG members with Hong Kong Section Past President

## Seminar on Construction Management Delivered to Hong Kong University of Science & Technology International Student Group

(21 March 2011)

In conjunction with the Hong Kong Section, the ISG of HKUST invited Mr Tsang Wong of FTI Consulting to present an academic talk cum technical seminar. A director in his consultant firm's Construction Solutions Asia branch, Mr Wong gave an excellent overview of the construction consulting business based on his past experience in offshore oil production facilities and power generation facilities projects. He further encouraged the students to make full use of the study opportunities at university and emphasized that that both academic foundation training and industrial experience were equally important for a competent professional engineer.



Mr Tsang Wong delivering his seminar to HKUST ISG members

## Tongji ISG Won 3rd Place at ASCE Southeast Student Conference

(24-26 March 2011)

Our Tongji University (Shanghai) ISG members attended the 2011 Southeast Student Conference held in March at Tennessee Technological University and took home 3rd place out of 26 participating universities at the overall event. In separate competitions, they won 1 first prize, 2 second prizes and 3 third prizes. Our congratulations to them!

Since 2008, the Tongji students have participated in this annual conference as a guest team at the invitation of the University of Tennessee at Knoxville ISG that maintains international partnership with Tongji. Tongji's excellent performance this year is particularly memorable because with the recognized establishment of their ISG within Hong Kong Section, they could formally compete as an official participating team with the American counterparts for the first time.



The ISG delegates of Tongji-Shanghai and Tennessee-Knoxville celebrating their awards (courtesy of University of Tennessee at Knoxville)

## Annual Dinner 2011 of University of Macau International Student Group

(25 April 2011)

A major event of the University of Macau ISG, the Annual Dinner 2011 was successfully held on 15 April at Hotel Sintra Macau. Their President Ms Sandra Lo reported on the group's various functions from contest workshop to site visits. Movies and test models of their another major activity in the past year, the 4th Architectural Technique Contest – on "Landslide in UM", were shown to the audience. Honorable guests from Hong Kong and Macau were invited to present awards to the winning teams. On behalf of the Hong Kong Section delegation, Director K.T. Wan gave heart-warming words to the students at the beginning of the dinner.

We are also pleased to report that at this meaningful event, the Hong Kong University of Science & Technology ISG executives joined our Directors to Macau to meet with their counterparts for a fruitful pre-dinner meeting on more interaction and collaboration. A tri-lateral student conference this summer involving Tsinghua University (Beijing) ISG members was discussed.



The Umac ISG ExCom members and Hong Kong Section delegates

## Tsinghua ISG Visiting Hong Kong

(29 June 2011)

From 27 June to 8 July 2011, a delegation of Tsinghua University (Beijing) ISG comprising 20 students and Faculty Advisor Prof Gang SHI came to Hong Kong for a summer program hosted by the ISG of the Hong Kong University of Science & Technology. Through the arrangement of our Section's President-Elect Victor Wong and Co-opted Director Johnson Po, on 29 June the Tsinghua group and HKUST ISG representatives visited the offices of Ove Arup & Partners Hong Kong Limited for a better understanding of the real world practice. The students were impressed with the firm's warm welcome and interesting presentations.

More details about the inter-university summer program will be reported in our next newsletter.



ARUP staff presenting the showcase projects to the Tsinghua visitors and HKUST ISG representatives

## More News from Us

One of our past presidents, Dr Albert T. Yeung of The University of Hong Kong, has been elected to the position of Region 10 Director for the term of 2010-2013. In this capacity he will be serving on the ASCE Board of Direction and the Chair of the Region 10 Board of Governors for 3 years. The Region 10 Board of Governors represents all sections and groups outside the U.S. and oversees the operations of 16 international sections and 17 international groups. Albert cordially invites you to visit the following website and contact him for any issues of interest to international members .

<http://www.asce.org/Regions-Sections-Branches/Region-10/Region-10-Board-of-Governors/>

The Board of Direction encourages our local members with more than 10 years of membership to advance to the Fellow grade, and has been successful in the following nominations:

- Prof Vai Pun IU of The University of Macau
- Prof Herbert H.P. FANG of The University of Hong Kong
- Dr Patrick P.C. CHEUNG formerly of HKSAR Architectural Services Department

Congratulation to them!

## Contacts Update:

To stay in touch with the ASCE and the ASCE Hong Kong Section, please update your email and mailing address with ASCE at :

<http://www.asce.org/membership>

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