The time-dependent public transport network design approach
Departmental Events

The Fourth Y.K. Cheung Lecture

Mr. Tristram Carfrae, Member of the global Arup Group Board and Chair of the Global Buildings Practice, delivered the Fourth Y.K. Cheung Lecture on November 1, 2011 at the Rayson Huang Theatre, HKU. The title of the Lecture was “Delightful Efficiency in Structural Design” and Mr. Carfrae illustrated his approach to delightful efficiency with some of the projects he has recently helped design: AAMI Stadium, Melbourne; Helix Bridge, Singapore and Watercube, Beijing. The event was well attended by about 200 engineers, academics and students.

The Y.K. Cheung Lecture was established in 2004 to recognise Professor Y.K. Cheung’s contributions to the engineering profession and education and the Lecture is jointly organised by the Department of Civil Engineering, The University of Hong Kong and the Structural Division of the Hong Kong Institution of Engineers biennially.

The 16th International Conference of Hong Kong Society for Transportation Studies

The 16th International Conference of Hong Kong Society for Transportation Studies (HKSTS) was successfully held from December 17-20, 2011 at InterContinental Grand Stanford Hong Kong. The Conference was jointly organised by HKSTS and the Department of Civil Engineering and Institute of Transport Studies of The University of Hong Kong, with generous financial sponsorship from the Mass Transit Railway (MTR) Corporation Limited. The Chartered Institute of Logistics and Transport in Hong Kong (CILTHK), The Hong Kong Institution of Engineers (HKIE) – Civil Division and the Eastern Asia Society for Transport Studies (EASTS) were the non-financial sponsors of the Conference. This year, we were honored to have Ir. Ka Keung Lau, JP, Director of Highways, Highways Department, The Government of the Hong Kong Special Administrative Region, with us delivering a Keynote Address, as well as seven internationally renowned scholars delivering plenary speeches. The Conference was a great success. The conference had over 300 submissions from researchers all over the world. More than 140 papers were presented at this conference covering the full spectrum of topics related to Transportation and logistics. It attracted over 220 participants from about 40 countries around the world.
Awards

Professor S.C. Wong, Head of Department, has been conferred the title of Chair Professor with effect from July 1, 2011. This achievement is in recognition of Professor Wong’s outstanding accomplishments and contributions over the years.

Dr. Z.Q. Yue was presented an “Outstanding Award” by the Journal of Rock Mechanics and Geotechnical Engineering at the 3rd Meeting of the 1st session of JRMGE Enlarged Editorial Board, held in Beijing in October 2011.

Dr. Z.Q. Yue has received an excellent paper award in November 2011 from the Geological Society of China for his solely authored paper entitled “Investigation and Geoscience Significance of Natural Hazards in Indonesia”, presented at the 2011 Annual Congress of the Society.

Dr. T. Zhang has been promoted to “Associate Professor” on tenure terms effective from November 1, 2011. The promotion is in recognition of Dr. Zhang’s accomplishments and hard work over the years.

Ir P.K.K. Lee has been conferred the Hong Kong Institution of Engineers (HKIE) President’s Award 2011 for his immense contributions and remarkable achievements at HKIE 36th Annual Dinner. The Award is given in recognition of the dedicated and valuable service of a member of any class who has served the Institution with distinctive achievements. Ir Lee is a dedicated Fellow who has been strongly committed to the development of the qualifying areas of HKIE. For more than 13 years he has served a total of seven boards and committees of the Institution, including the Council, Accreditation Board, Structural Discipline Advisory Panel, Education and Examinations Committee and Fellowship Committee.

Dr. S.T. Smith has been awarded the 2011 Warren Medal from the Civil College of Engineers Australia. The Warren Medal was named after Professor W.H. Warren who was the first President of the Institution of Engineers Australia. The award was established in 1929 and is given annually for the best paper in the discipline of civil engineering published by Engineers Australia for that year.

Activities

Dr. A.T. Yeung made an invited presentation on “Snapshots and trends of PPP in Hong Kong” in the International Roundtable Meeting on “PPP Policy, Guidelines, and Project Implementation” held on September 7, 2011 at the Johoku Campus of Ehime University, Matsuyama City, Shikoku, Japan. Other invited speakers at the meeting included Professor Luh-Maan Chang of Taiwan, Professor Jae-Woo Park of Korea, and Professor Shigeru Morichi of Japan. He also made an invited presentation on “Sustainability of Civil Engineering Human Resources Development” at the International Seminar on “Approach to Sustainable Futuristic Infrastructure” organised by the Institution of Civil Engineers (India) on the occasion of Engineers’ Day Celebrations in New Delhi, India, September 15, 2011 and a presentation on “Hong Kong: A smart city?” at the International Roundtable Discussion Forum of the Centennial Meeting of the Chinese Institute of Civil and Hydraulic Engineering held in Chungli, Taiwan on November 18, 2011.

Dr. A.T. Yeung attended the 2011 Japan Society of Civil Engineers (JSCE) Annual Meeting on behalf of the President of the American Society of Civil Engineers (ASCE), Ms. Kathy J. Caldwell, at the Johoku Campus of Ehime University, Matsuyama City, Shikoku, Japan, from September 7-9, 2011. He also attended the 10th Technical Coordinating Committee Meeting, made an invited presentation on “Vision 2025 - Engineering leadership for sustainability” at the
15th Planning Committee Meeting and was elected to the chair of the Membership Sub-committee at the 21st Executive Committee Meeting of the Asian Civil Engineering Coordinating Council in New Delhi, India on September 16-17, 2011.

Dr. J. Yang delivered an invited seminar on seismic codes and geotechnical engineering perspectives on September 27, 2011. The seminar was jointly organised by ICE Hong Kong and ASCE Hong Kong, and received over 150 registrations from practicing engineers and researchers.

Dr. S.T. Smith delivered a keynote address at the 7th National Conference on Infrastructure Applications of FRP Composites which was held in Hangzhou, China from October 15-16, 2011. In addition, while on sabbatical leave Dr. S.T. Smith delivered invited lectures at (i) Columbia University, USA, on “FRP Composites in Construction” on November 15, 2011, and (ii) Massachusetts Institute of Technology (MIT) on “Sustainable Civil Infrastructure in Hong Kong” on December 13, 2011.

Exhibition of “Novel Membranes for Water Reclamation Technology” at 2011 InnoCarnival

The research outcomes on the project “Novel Membranes for Water Reclamation Technology”, conducted by Dr. K. Shih, Professor X.Y. Li, Dr. X.M. Wang and Dr. T. Zhang in the Department of Civil Engineering, was selected as one of the six projects representing the technology innovation of HKU in 2011 InnoCarnival. Organised by the Innovation Technology Commission, the nine-day (November 5-13) 2011 InnoCarnival concluded with a record-breaking number of more than 180,000 participants.

News

Dr. G.C.K. Wong (pictured) joined the Department of Civil Engineering as Teaching Consultant in February 2012. Dr. Wong received his BEng, MPhil and PhD in Civil and Structural Engineering from The University of Hong Kong. His MPhil focused on the analysis of large space structures using group theory and he worked on the dynamic macroscopic modeling of highway traffic flow during doctoral studies. He has a broad range of research interests that include the analysis of large space structures with symmetry, the numerical analysis of hyperbolic conservation law, traffic flow theory and inter-modal logistics. In 2003, Dr. G.C.K. Wong started to pursue his structural engineering career in a local engineering consultancy. Afterwards he joined several renowned companies such as Scott Wilson (HK) and ARUP, where he acquired knowledge of structural engineering design, and experiences in site supervision and project management. He took part in various projects from large-scale hotel development like the Venetian Macao Hotel to the 3-storey dormitory project in rural area of Yunnan. After nine years as a practicing engineer, he specializes in tall-building design, steel structure as well as precast concrete design and construction. Dr. G.C.K. Wong is a Chartered Structural Engineer. With his professional experience in and connection with the industry and his knowledge in diversified research areas, he can contribute substantially to the teaching, industrial training and research in the department.

Professor S.C. Wong was appointed as a member of the Civil Discipline Advisory Panel, Logistics and Transportation Discipline Advisory Panel, and Education and Examinations Committee of the Hong Kong Institution of Engineers for the term 2011-2012.

Dr. Z.Q. Yue was appointed as member of the IAA Study Group 4.11 on Coordination and Cooperation for Global Environment Impact by the International Academy of Astronautics (IAA) on September 2, 2011.
Professor B. Young has been appointed as guest Professor by Tongji University in October 2011.

Professor B. Young and Dr. S.T. Smith have both been appointed to the Editorial Advisory Panel of the journal entitled Proceedings of the Institution of Civil Engineering: Structures and Buildings, for 2011-2014.

Dr. J. Chen has been appointed as an Associate Editor of Water Resources Research, a top international journal in the fields of water resources, limnology and environmental sciences, from October 2011 to December 31, 2013 by AGU (American Geophysical Union).

Three of our staff Dr. Y.P. Huang, Mr. C.K. Ni and Mr. C.H. Wong received HKU Long Service Awards. They have served the University for 15 years. The Presentation Ceremony was held in Loke Yew Hall on February 1, 2012.

Visit by Mr. Chen Fei, President of the China Three Gorges Corporation

Mr. Chen Fei, President of the China Three Gorges Corporation and a delegation of 10 members visited our Department on November 15, 2011. Mr. Chen first met with Pro-Vice-Chancellor (Research) Professor Paul Tam for a courtesy visit. The delegation then met with teachers of our Department to discuss research collaboration.

Mr. Chen Fei has been awarded the title of "Honorary Professor" by our Department and we took the opportunity to present the certificate to him.

In the evening, Mr. Chen also delivered a public lecture at the University, which was well attended by academics and students.
Completion Ceremony of Zhengdong Kindergarten

The third project of our Mingde Projects for reconstruction of the Zhengdong Kindergarten at Chongzhou has been successfully completed and was handed over to the end-user in November 2011. A group of the project team members, together with professors, Amy Tsui, L.G. Tham and P.K.K. Lee, and alumni, P.C. Leung, C.K. Mak, Nicolas Yeung, and partners and friends, attended the completion ceremony at the brand new campus of the kindergarten on December 17, 2011. This project is one of the 187 projects funded under the HKSAR Trust Fund for helping Sichuan’s reconstruction after the massive earthquake, and deemed as one rare case that the reconstruction is designed and managed by Hong Kong people. Volunteers of our Mingde Projects played a key role in the project management and were responsible for the whole reconstruction process. Owing to the great effort and contribution of about 200 volunteers coming from professionals, alumni, graduates and mostly undergraduates of the Department, the project was finished splendidly within the budget. At this happy occasion of project completion, the Department would like to express a hearty gratitude to all team members and friends for their enthusiastic engagement. We thank the Charity of Operation Concern for offering us the great opportunity. We thank our voluntary advisors, namely Vinco Mung, Alex Lui, Tom Ho, Daniel Chan, Andy Lee, Peter Ng, Mandy Ng, Chan Shing… for their helpful guidance and assistance. We also thank the Lee Hysan Foundation for their generous financial support which enables us to carry out frequent site visits of over 1250 man-days in 31 trips between Hong Kong and Chongzhou. It is through the concerted effort of everyone that made the project possible.

Wong Tai Sin District Council Plaque Presentation

The Wong Tai Sin District Council has presented a plaque to the Department of Civil Engineering to recognise our contribution made to the social services of their District. The presentation was held at the Spring reception of the Wong Tai Sin District Council on February 2, 2012. Mr. Li Tak Hong, MH, JP, the Chairman of Wong Tai Sin District Council and Miss Florence Hui, JP, the Secretary for Home Affairs were the Guests of Honour.

Two student representatives, Mr. Suen Ka Ho and Miss Wang Shen Zi, attended the reception to receive the plaque on behalf of the Department.

Two student representatives (3rd and 4th from left) with guests of the spring reception
News from CICID – ‘Centre for Infrastructure and Construction Industry Development’

‘Construction Industry Development Comparison and Acceleration’ (CIDCA) project – Focus Group Meeting II: Validation of Research Findings – October 14, 2011
This focus group meeting was an important milestone of a RGC funded research project titled ‘Construction Industry Development Comparison and Acceleration (CIDCA)’. After presenting the consolidated findings of the project, feedback and comments on the research findings were elicited in order to refine and validate before compiling the final results. Additionally, research findings from a connected research project titled ‘Management of Infrastructure Rehabilitation, Redevelopment or Revitalisation (MIRROR)’ were also presented and validated at this forum.

Welcome Speech by Ir Gary Soo, a member of our CICID Management Committee and Chairman of our Construction Law Task Force

NEC Workshop 1 - Experience Sharing on Improvement of Fuk Man Road Nullah in Sai Kung jointly organised by HKIE CV Division, BD Division and HKU CICID – January 4, 2012
The objective of this NEC Workshop was to share the experience of administrating HKSAR Government’s first NEC pilot project which was a nullah improvement project – “Improvement of Fuk Man Road Nullah in Sai Kung” under the management of Drainage Services Department (DSD). The contract adopted Option C – Target contract with activity schedule. The project team shared their experience on the establishment of partnering and collaborative working attitude, the management of risks and compensation events, and financial management of this target cost contract.

NEC Workshop 2 - Experience Sharing on HKSAR Government’s 1st NEC Project: Improvement of Fuk Man Road Nullah – February 2, 2012
This workshop was jointly organised by HKIE Civil Division, Building Division, ADR Committee, and HKU CICID. It was a follow-up to the NEC Workshop 1 of January 4, 2012. The Opening Address was by Ir T.C. Chew of our CICID Management Committee who is also Chairman, NEC Users’ Group (Asia-Pacific).

Consultation Forum - Carbon Labelling Scheme for Construction Materials - February 24, 2012 at the Jockey Club Environmental Building, Kowloon Tong
The purpose of this consultation forum was to supplement, validate and consolidate a proposed carbon labelling scheme for construction materials, together with the proposed implementation strategies. Three prominent speakers shared recent development on carbon footprinting in construction: (i) Professor Geoffrey Hammond from University of Bath, UK; (ii) Dr. Y.M. Gao, Managing Director of British Standards Institution (BSI), China; and (iii) Ir Dr. William Sin Tong Lau, Technical Director of SGS Hong Kong, Ltd., HK. About 80 experienced industry practitioners from government, developers, architects, builders, professional institutes, material suppliers and academia also provided valuable comments at a panel discussion session.

For information about Forthcoming and Previous CICID events/activities, and also more information on the above 4 events, please visit http://www.civil.hku.hk/cicid/3_events.htm.
**Student Awards/Activities**

**Awards**

Mr. Chen Wen (2011 graduate, pictured, right) received the Best Final-Year Project Award from ASCE Hong Kong Section for his project “Permanent deformation of sand under cyclic loading” (supervisor: Dr. J. Yang). He also received the Civil Engineering Project Prize from the Department of Civil Engineering.

Mr. Cheng Wan Kien Keith, Miss Choi Tsz Wing, Mr. Hui Kin Long, Mr. Kan Chi Cheung (Year 1 BEng students) were awarded the HKU Foundation Scholarships for Outstanding Students 2011-12.

Mr. Huen Ka Yu (Year 2 BEng student, pictured) was awarded the YS and Christabel Lung Undergraduate Scholarship for Engineering Students 2010-11.

Mr. Li Chaoyi (2011 graduate) had his Final Year Project (supervised by Dr. K. Shih) won the Waste Management & Environmental Sustainability Project Competition 2010/2011, organised by Hong Kong Waste Management Association (HKWMA). This competition aims at arousing the interest of students who will be the future pillars of the society in waste management and environmental sustainability and encourage innovative ideas to develop such practice. Mr. Li’s project title was “Stabilizing Nickel in Simulated Solid Waste by Spinel Formation” and the awarding ceremony was held during the HKWMA Annual General Meeting at Hong Kong Club on September 14, 2011. After the award ceremony, Mr. Li was invited to give a presentation on his project findings, and his work will be also published in the HKWMA newsletter, WASTELINE.

Mr. Wong Cheuk Lun (Year 2 BEng student, pictured) was awarded:
- The HKU Foundation Scholarship 2010-11
- 嚴陳寶珊獎學金 2011-12

Mr. Yuan Ye On (Year 3 BEng student, pictured) was awarded the Young Tsun Dart Scholarship 2010-11.
Activities

Dr. H.H. Tsang (PhD 2006 graduate):

- earthquake engineering research conducted by Dr. Tsang and Professor S.H. Lo has been selected as one of the top 12 technology innovations for the Asian Innovation Awards 2011 by The Wall Street Journal, Dow Jones & Company. The Awards, which attracted over 250 entries from 18 countries in Asia and Australasia, are committed to finding the next big technological ideas in the region. Notable listed companies, including Hutchison, IBM and Toshiba, are amongst the top 12. Sir John Major, former Prime Minister of the U.K., was the Guest of Honour in the Gala Dinner at Four Seasons Hotel, Hong Kong, on November 3, 2011.

- has been invited as a member of the International Advisory Panel in the Earthquake Code Committee of The Institution of Engineers, Malaysia. The other three current members are respectively from Australia, Canada and Singapore.

- delivered an invited speech on "Performance Requirements and Design Spectrum Model for Structures in Regions of Low-to-Moderate Seismicity" in the Symposium on Earthquake Engineering in Malaysia and Asia Pacific Region at Petaling Jaya, Malaysia, on December 6, 2011. Six overseas speakers shared experiences and insights on the appropriate seismic design in regions of low-to-moderate seismicity.

Fellowships

Professor Kang Hai Tan, Nanyang Technological University, Singapore, visited the Department from December 6-12, 2011 under the auspices of the Structural Engineering Fellowship. His public lecture entitled "Steel and Composite Joint Behaviour and Tensile Membrane Action of Slabs in Fire" was delivered on December 8, 2011. He also gave a seminar entitled "Resistance of Reinforced Concrete Structures Against Progressive Collapse" on December 9, 2011.
The Graduation Certificate of Mr. Chao Yu Chen (趙玉振) Returned to Campus

Mr. Chao Yu Chen, known as Zhao Jinseng (趙令聲) later, graduated with the first honor from our Department in 1926. He has had a wonderful campus life since he listened to the speech of Dr. Sun Yat-sen (孫中山) at the campus in 1923. He later hosted the two speeches of Mr. Lu Xun (魯迅) at Hong Kong in 1927. After graduation, Mr. Chao had experienced some difficulties in his early career as it was during turbulent times, but he finally became a famous professor in the field of port engineering. He was a vice president of Tianjin University (天津大學) for 18 years until he retired in 1982. In 1997 when he attended an event held by CCTV for celebrating the Return of Hong Kong, Mr. Chao expressed his hearty wish to return to the HKU campus. But he did not realise his wish, because he was then at a very high age of 94. His wish was realised by his daughter Zhao Shuqing (趙淑清), who presented his father’s Graduation Certificate to the University on October 27, 2011. The certificate together with the original student registration form for Mr. Chao have been displayed at the exhibition of “HKU Memories from the Archives” from December 7, 2011 to March 18, 2012 for celebrating the centenary of the University.
Reunion Dinner of Year 2001-Graduates

On August 26, 2011, the 2001-Graduates from the Department of Civil Engineering held its reunion dinner for their ten-year anniversary since graduation at Palace Restaurant at The ONE, Tsim Sha Tsui. The attendees were honored by the presence of special guests, namely (2nd row 6th from left) Professor F.T.K. Au, Mr. P.K.K. Lee, Professor A.K.H. Kwan and Dr. R.K.L. Su.

At the banquet, more than 60 graduates of the Year 2001 gathered together for reunion with old friends and to meet teachers. The former Department Head Professor Kwan talked about the latest developments of the Department and the civil engineering industry. A video with past photos of our university life was played during the dinner, followed by a quiz on some past history of the university activities. The highlight of the evening was a singing performance by Ricky Ng and Alan Tsang.

Participants were very pleased to see the unity of the Year 2001-Graduation Class and the support from its teachers. In fact, many at the reunion have met each other in all walks of life in the engineering industry. The group does hope more frequent reunion dinners will be held with participation from family members.

It was a memorable evening!

Civil Engineering Class of 1981 - 30th Anniversary

A reunion dinner of the Civil Engineering Class of 1981 was held on November 26, 2011. Previous teachers and demonstrators, including (2nd row from left) Professor A.K.H. Kwan, Mr. Y.C. Mo, Dr. Robert Lam, Professor J.H.W. Lee, Professor T.C. Laiw, Professor Y.K. Cheung, Professor H.C. Chan, Professor A.Y.T. Leung, Mr. P.K.K. Lee, Dr. C.O. Tong and Mr. P.H. Lui, were invited to join 46 old boys to recapture the memories of their days at the University.
Announcements and Upcoming Events

Professional Course on Structural Design for Earthquake Fire and Impact Hazards

The Professional Course is organised by Department of Civil Engineering, The University of Hong Kong and supported by the Joint Structural Division of The Hong Kong Institution of Engineers & The Institution of Structural Engineers. Fundamental concepts and up-to-date knowledge that are required for the structural design and assessment of buildings for countering the threats of seismic, fire and impact actions will be presented in details.

Date: May 26, 2012 (Saturday) and June 2, 2012 (Saturday)
Time: 8:30 a.m. - 5:00 p.m.
Venue: Room P501, P5 Level, Graduate House, No. 3 University Drive, The University of Hong Kong, Hong Kong
Course Fee: HK$2,600
CPD Certificate: The course is considered suitable for 2 CPD-day credits.
Registration: Miss Aggie Sung (Tel: 2859-1963, Email: olsung@hku.hk)
Technical enquiries: Professor Ben Young (Tel: 2859-2674, Email: young@hku.hk)

More details can be found at: http://www.hku.hk/civil/h4a.htm

Newsletter by Email

To view the electronic version of this Newsletter, please visit our Department website on http://www.hku.hk/civil, or if you prefer to receive the electronic version of this Newsletter by email, please send notification to civdept@hkucc.hku.hk.

Department of Civil Engineering
The University of Hong Kong
Tel: (852) 2859 8024
Fax: (852) 2559 5337
Email: civdept@hkucc.hku.hk
http://www.hku.hk/civil

Editors:
Dr. S.T. Smith
Dr. B.A. Baudet