

The Second International Conference on Utility Management and Safety 2011

The Second International Conference on Utility Management and Safety (2nd ICUMAS) was held on 6-9 March 2011 successfully. Apart from welcoming dinner on 6 March and technical visit on 9 March, most importantly, the two days conference was held at L' Hotel Nina et Convention Centre on 7-8 March 2011. The 2nd ICUMAS was jointly organized by Hong Kong Institute of Utility Specialists (HKIUS), Hong Kong Utility Research Centre (HKURC) and co-organized by the Faculty of Engineering, The University of Hong Kong; Faculty of Engineering, The Chinese University of Hong Kong; Faculty of Construction and Land Use, Department of Land Surveying and Geo-Informatics, The Hong Kong Polytechnic University; Department of Mechanical Engineering, The Hong Kong University of Science and Technology; Construction Industry Council; Community & Construction Professional Development Centre; Underground Pipeline Committee of CACP and The Hong Kong Association for the Advancement of Science and Technology with over 70 supporting organizations from government departments, academic institutions, professional associations from local, mainland china and overseas.

The conference received overwhelmingly enthusiastic response that attracted over 500 engineering, surveyors, safety and utility practitioners, government officials, academics representatives and utility field consultants in which over 30% are overseas participants and 30% are from Government department. The 2nd ICUMAS was a great success in providing an excellent platform and opportunity in keeping abreast of latest knowledge and experience about utility management and safety, offering a channel to network with each other and promoting continuous cooperation among utility industry worldwide.

The conference comprised of various sections with featured keynote and guest lectures and parallel sessions ended with a forum.

Opening Ceremony

The opening ceremony was held on 7 March in which Chairman of ICUMAS Organizing Committee, Ir LEE S.S., GBS, OBE, JP (李承仕工程師 金紫荊星章, OBE, 太平紳士) and officiating guest Mr. HONG Li-bo (洪立波先生), the Deputy President of Underground Pipeline Committee of CACP delivered a welcoming message to the delegates kicked off the 2nd ICUMAS. Another officiating guest, Ir WAI Chi Sing, JP (韋志成工程師 太平紳士) presented the souvenir to keynote and guest speakers.



Ir LEE S.S., GBS, OBE, JP delivered a welcoming speech in greeting all the conference delegates.



Mr. HONG Li-bo, the Deputy President of Underground Pipeline Committee of CACP, our officiating guests in the opening ceremony



Ir WAI Chi Sing, JP, another officiating guests delivered a speech to our delegates



Keynote speakers and Guest speakers group photo

Conference on 7th March

In the morning of 7th March, one keynote speaker and three guest speakers were invited to deliver the speeches. The first keynote speaker, Ir MA Lee-tak, JP (馬利德工程師、太平紳士), Director of Water Supplies, HKSAR delivered a lecture on “Managing Water Losses in Hong Kong”, discussing the techniques employed in Hong Kong and the result. Followed by a guest speaker, Mr. KWOK Kai-yip, Zico (郭啓業先生), President of Hong Kong Institute of Utility Specialists who presented a lecture on “Establishing the World Standard – Utility Survey Standards in the World”. Next, another prominent guest speaker, Ir Dr. WONG King (黃敬博士、工程師), Chief Executive of Community & Construction Professionals’ Development Centre gave his speech on “Improved Utility Management Towards Better Environment – How Utilities Affect the World” and the morning session was ended with another guest speaker, Dr. AN Guan-feng (安關峰博士), Deputy General Manager of Guangzhou Municipal Group Co. Ltd who reported to the delegates on “Condition Survey and Analysis of Sewerage System in Guangzhou”.



Keynote Speaker, Ir MA Lee-tak, JP in illustrating manage water losses in Hong Kong



Q&A session

The afternoon session on 7th March was loaded with two parallel sessions in which 20 speakers presented their papers which had been approved and accepted by the Technical Review Board previously. Each parallel session was moderated by a session chairman with introduction of the speakers and also the Q & A session.

In addition, Prof. LI Xue-jun, Steven (李學軍教授), Deputy Secretary-General of Underground Pipelines Professional Committee of CACP delivered a lecture on “Security Situation and Strategy of Urban Underground Pipelines in Mainland China”, followed by a keynote speaker, Prof. ARIARATNAM Samuel T. Ph.D., P.E., Del E., Webb School of Construction, School of Sustainable Engineering and the Built Environment, Ira A. Fulton School of Engineering,

Arizona State University who presented a lecture on “Practices for Minimizing Utility Damages during Horizontal Directional Drilling”, suggested practices for minimizing damages to the existing utilities while employing Horizontal Directional Drilling. Last but not least, the prominent guest speaker, Ir Prof. LOCK Fat-shing, Louis (樂法成教授、工程師), Site Manager of the Hong Kong Electric Co. Limited (Lamma Power Station) gave his speech regarding “Lamma: A Green Site Utility Power Plant”.

Conference on 8th March

The last day of conference was commenced by a keynote lecture delivered by Prof. FORDE Michael C., Carillon Chair, Institute for Infrastructure & Environment, The University of Edinburgh, UK on “Field Measurements and Numerical Modelling of GPR Surveys for Buried Utilities”. The presentation highlighted the innovation in field work and new forms of radar (GPR). In addition, Ir SOO Gary (蘇國良工程師) Barrister-at-Law of Gary Soo’s Chambers also introduced “Mediating for Compulsory Sale for Land Redevelopment – Hong Kong Perspectives and Experiences”. Dr. ROSENFELD Yehiel, Head, Construction Management Program, Faculty of Civil and Environmental Engineering, Technion- Israel Institute of Technology, another eminent keynote speaker, illustrated to us the topic “Public-Private-Partnerships in Utility Projects: Fitting Procurement Methods to Project Characteristics”. The keynote lecture was then followed by parallel sessions in which 8 speakers presented their papers in the morning.



Conference delegates listened attentively



Prof. FORDE Michael C., explained development and improvements for GPR



Dr. Yehiel ROSENFELD illustrated the Public-Private-Partnerships in Utility Projects



Forum aroused active discussion of the panel members

For the afternoon section, it was featured with keynote and guest lectures. Prominent keynote lecturer, Mr. SHEPHERD Michael, Independent Consultant, Water Distribution and System Renovation delivered to us “The Need for Trenchless Technology” which covered the installation, replacement and renovation of buried pipeline is the tool in the management of these operations in a more sustainable way. Dr. NAJAFI Mohammad, Director, Center for

Underground Infrastructure Research and Education, Department of Civil Engineering, The University of Texas at Arlington presented “Applicability of Internally Restrained PVC Pipe Joint for Horizontal Directional Drilling (HDD) Practice”

Above all, Ir Prof. KWAN K.H., Albert (關國雄教授、工程師), Department of Civil Engineering, The University of Hong Kong demonstrated to us “Shear Lag in Box Culverts Supported by Piles”, addressed the issue and advocate the existing theories for shear lag in box structures. Ir Dr. YEUNG T. Albert (楊德忠博士、工程師), Associate Professor (Geotechnical Engineering), Department of Civil Engineering, The University of Hong Kong, another eminent keynote speaker, illustrated to us the topic “Field-scale Evaluation of Non-destructive Underground Void Detection Techniques”. He reviewed and evaluated different non-destructive techniques available for the detection of underground voids so as to identify the most appropriate methods for use in Hong Kong, and to formulate measures to improve the effectiveness and reliability of the detection methods identified.

The two-day conference was prosperously and effectively encouraging active discussion among the delegates. A forum was held thereafter and chaired by Ir Dr. Albert YEUNG with 7 other panel members. Constructive discussion was generated among the group regarding the utility planning in different countries and the discussion of utility planning and development.

The 2nd ICUMAS was adjourned by a closing ceremony with award presentation, and we were delighted to have Ir Prof. KWAN K.H., Albert (關國雄教授、工程師), as our Technical Review Board Chairman in presenting the Best Presentation Awards to our outstanding speakers in the parallel sessions. The winners of each category were:

Category	Winners	Topics
Asset & Data Management	BOON, Jon and FERGUSON, Philip	Balancing Leakage Detection and Pipe Condition Assessment to Provide Best Value
Field Techniques & Materials	FUNG, Ronald C.P., SHOU, Stephanus W.L., CHAN, Samuel Y.L., CHIU, Kelvin K.K. and LEE, K.H.	Implementation of Pressure Management and District Metering for the Fresh Water Distribution Systems of Kowloon Central Major Supply Zone in Hong Kong
Innovation, Quality, Safety & Health	LI, Xue-jun and DU, Liang-fa	Geophysical Methods and Techniques Related to Safe Operation of Urban Underground Pipelines



Winners of the Best Presentation Awards together with Ir Prof. KWAN K.H., Albert (right) on stage



Souvenirs presented by Mr. MOUNTAIN Terry, Chairman of External Affairs Committee to all supporting organization representatives (right fourth)



Ir Dr. WONG King delivered a thank you speech in expressing our deepest gratitude for generous support from various parties.

Without the support of our supporting organizations and organizing committee, 2nd ICUMAS would not be successfully held and able to gather experts and professionals worldwide. In order to extend our immense gratitude, Mr. MOUNTAIN Terry presented souvenirs to our supporting organizations and organizing committee. The objectives were achieved in general by facilitating constructive exchange of innovative ideas regarding utility management and safety. We truly wish that each delegate found the conference inspiring and we look forward to seeing you all again in our coming activities!