

SOUNDING BOARD

 香港聲學學會
Hong Kong Institute of Acoustics

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“Congratulations to our Treasurer, Grace”

Jan 16, 2010 marked a wonderful event for the Institute as our Hon. Treasurer, Grace Kwok and Dennis Wu got married on that Saturday. The memorable wedding ceremony took place at Aberdeen Marina Club, followed by a joyful banquet. Let's wish this special couple a bright and happy marriage!



Certificate Course to be launched in 2010

C.W. Law



To foster continuous professional development, the Institute has been, from time to time, organizing technical seminars/events for local professionals to help them keeping abreast of the latest developments in the acoustic profession. In association with Hong Kong Institution of Engineers - Mechanical,



Marine, Naval Architecture and Chemical (HKIE-MMNC) Division, we are going to organize a certificate course specifically on noise control, road traffic noise measurement and assessment. The course will be composed of modules, aiming at providing the fresh comers of local industry or the local professionals with updated skills and techniques required for noise measurement and assessment. Apart from theoretical sessions, practical sessions will be conducted for on-site noise assessment and hands-on experience on 3D noise assessment, which are targeted to be launched in the middle of 2010..

Professional Diploma on Acoustics

Lixi HUANG

From time to time enquiries are made for the availability of the diploma which was discontinued for a number of years. In response, the executive committee discussed and decided to re-launch the diploma course to satisfy the needs of our professionals. From July 2009, the work of re-launching the diploma was carried out by a group which was later to become the Diploma Course Committee (DCC) consisting of Dr Lixi Huang (chair), Dr Randolph Leung (deputy), Mr Albert Li, Dr Kin Cheng (Hon. Secretary) and Mr Wilson Ho. A document was launched in Sept 2009 which had taken reference of the UK practice but was essentially a new model which was adapted for the situation in needs in Hong Kong. Full details are given at the HKIOA website: <http://hkioa.org/diploma.html>.

As a very brief summary, the student needs to take a compulsory module (fundamentals of sound and vibration), two technical elective modules, and a project module, each broadly equivalent to a formal lecturing and contact hours of 36 or above. All modules can be taken from a pool of subjects taken from local tertiary institutions which are considered by the DCC to be of suitable level and content (current list provided in the website). HKIOA seminars, conferences or short courses may also be used by students to claim credits for an elective subject. Students need to apply to the individual tertiary institutions as visiting students and the course committee provides all necessary assistant in the process. This is a de-centralized system making use of the extensive resources already available in Hong Kong, and the perceived advantage of this operation model is that it caters for the needs of any number of students at anytime. There was one applicant in Sept 2009 and we hope that more would join this year as we further promulgate the course.

“New born” Vibration

Wilson Ho

The vibration sub-committee is a new unit set up by the Executive Committee. With its formation, a series of vibration seminars has already been started in Jan 2010. Below is a list of seminars organized or planned. More details of the coming events will be announced as time goes by.

Date	Speaker	Title
6 Jan	Wilson Ho / Banting Wong Wilson Acoustics Limited	Prediction Models of TBM Groundborne Noise & Vibration – Evolution and Practicality
10 Feb	Ir Dr. Peter W. Tse City University	Vibration Based Conditioning Monitoring – Commissioning and Standards
		Shock and Vibration Data Analysis
		Vibration Isolation of Buildings
		Railway Noise Control Using Vibration Absorber
		The design and engineering of rubber bearings for vibration isolation
		Active Vibration Control (Speaker not yet confirmed)

Building Acoustics – Seminar 2: Building Acoustics Fundamentals and Measurements

YN Au Yeung

The “Building Acoustics Fundamentals and Measurement” seminar was jointly organized by HKIOA and HKIE Building Services Division on 8 December 2009 on IVE (Morrison Hill) Campus. Thanks to Tom Ho, Chairman of HKIOA, for being the speaker. Building acoustics fundamentals and its measurements together with the latest developments were introduced. In-site measurement and demonstration was carried out to give audience a better understanding of the data acquisition and analysis technique. Important points to be noted in measurements were highlighted. The seminar was well received by over 150 participants.



In-site demonstration/measurement



The seminar was well received by over 150 participants

Information on the HKIOA Web

Wilson Ho

Events organized or co-organized by HKIOA are regularly uploaded on the HKIOA website. Any person who is interested to join HKIOA can also visit the website to read the entry requirements and download an appropriate application form. In this year, HKIOA also put up company information of institute members so that the public can access to related information more easily.

Technical Acoustics 声学技术

Randolph Leung

Technical Acoustics (TA) is a bi-monthly journal dedicated for publication of latest research and development in the applications of sound and vibration. It is sponsored by the Shanghai Acoustics Laboratory of Chinese Academy of Sciences, Institute of Acoustics of Tongji University, Acoustical Society of Shanghai, Shanghai Marine Electronic Equipment Research Institute, and is co-sponsored by Hong Kong Institute of Acoustics. Since 2009 Ir Dr C. M. Mak and Ir Dr Randolph C. K. Leung have been serving on behalf of HKIOA respectively as an Associate Editor-in-chief and a member of the TA editorial board. In addition our fellow HKIOA members have been showing their full support to TA. A paper titled Review of Traffic Noise Problems and Noise Control Policy in Hong Kong, by Tom T. K. Ho, C. M. Mak and H. F. Chan, was published in the December issue in 2009. A constant effort for promoting TA to HKIOA fellow members continues with an aim to attract more papers from our fellow members to be published in TA. Should any member be interested in sharing their works through TA, he/she is welcomed to pay a visit at the relevant link in HKIOA web site for details.

Delegation visit to Taiwan

Kin Cheng / Tom Ho

The Institute organized a delegation visit to the Acoustical Society of Taiwan in Taipei between 25 - 27 November 2009 as part of the commitment to maintain closer ties with our counterparts in South East Asia. The HKIOA delegation was led by the Chairman Mr. Tom Ho, and comprised of the Hon. Secretary Dr. KW Cheng, and other Committee Members, Ms. Grace Kwok, Dr. Lixi Huang, Dr. C.M. Mak and Ir. KK Iu.

On 25 November 2009, the delegation joined their regional architectural acoustics conference. There were participants from Shanghai, PRC too, and our Dr. Lixi Huang presented his work on an innovative control of duct noise based on the analogy to musical instruments. The paper was well received by the audience.



HKIOA delegates in the Regional Architectural Acoustics Conference held on 25.11.2009

On 26 November 2009, the delegation visited their Government funded Architecture and Building Research Institute in which we were impressed by their wide range of facilities purposely built for architectural acoustical research.



Visited to Government funded Architecture and Building Research Institute on 26.11.2009

On 27 November 2009, the delegation joined the 2009 AGM of the Acoustical Society of Taiwan. On behalf of the Institute, Dr. C.M. Mak presented a paper to brief the audiences the Institute's proposal on noise control policy for traffic noise problem in Hong Kong. Dr. Mak's presentation was not only well received by the audiences, but also stimulated some fruitful exchanges among the participants.



At the 2009 AGM of Acoustical Society of Taiwan on 27.11.2009, Dr. C.M. Mak presented a paper on HKIOA's proposed on noise control policy for traffic noise problem in Hong Kong

Apart from technical meetings, our counterparts in Taiwan also showed us very generous hospitality. There were social dinners in the evenings through which our delegates could discuss and exchange more with the Taiwanese counterparts as well as those from Shanghai, PRC. The delegation visit was considered a very fruitful one as it enabled better networking with the counterparts, and more importantly, establishing links for future exchanges.



HKIOA delegates participated in a social dinner

IVE (Morrison Hill) Student Branch Site visits: [1] Development of Anderson Road

CK Yip / YN Au Yeung

A site visit to the Development of Anderson Road was arranged for the IVE (Morrison Hill) Student Branch of HKIOA by the China State Construction Engineering (HK) Ltd. on 16 May 2009. Special thanks were given to Dr Ben Ho of the Company in organizing the visit and his colleagues in taking care of the logistics and giving detailed explanation.

The visit included a slide presentation followed by a site walk around the area. Different noise control measures such as control of noise from on-site blasting, use of noise barriers and quiet construction plants were introduced. Environmental monitoring facilities to keep track of the operation condition were also explained.



Noise Control Measures



Group Photo taken at the construction site



Presentation of Souvenir

Site visit: [2] Ko Shan Theatre

KL Chow / YN Au Yeung

Ko Shan Theatre was first opened in 1983 and designed as a 3,000-seat semi-open air theatre. After an improvement project approved in 1994, the refurbished Ko Shan Theatre was re-opened in October 1996. The renovation aimed at providing better facilities for a wide range of public and private activities, which can intermix for the benefit of the community.

The site-visit of Ko Shan Theater, organized by the Student Branch, was held in mid of October 2009. It included a tour of the facilities in the theatre, including the sound and lighting control room. Detailed explanation was given on the control of the sound and lighting systems through the precision controller. Various measures adopted to improve the quality of sound were shown.



Ko Shan Theater with various sound control treatment



Staff of the Theatre explaining on the control panel operation

Sincere thanks have to be extended to the staff members of Ko Shan Theatre for their help in making the visit a success.



A group photo taken at Ko Shan Theatre

Membership Data (as at 2 Feb 2010)

C W Law

Membership Grade	Number
Honorary Fellow	2
Fellow	21
Member (Corporate & Overseas)	193
Associate Member	58
Student	173
Total	447