

HKIOA Student Branch - IVE (Morrison Hill)



YN AU YEUNG (Student Branch Advisor)

KM WAN (Student Branch Financial Secretary)

With the support of HKIOA, the first student branch was set up in 2007 at the IVE (Morrison Hill) campus. Members of the Branch will automatically be accepted as Student Members and be entitled to enjoy the benefits from activities organized by the Institute. With the sponsorship from HKIOA, more opportunities will be provided for students to participate in activities related to their studies or future careers and to expose themselves to both technical and social functions related to the acoustical profession. Up to now, there are around 170 members.

Various activities were held by the Branch since its formation up to now. Thanks to the support provided by HKIOA and the associated parties. The main functions included:

1. Site visit to Central Reclamation Phase III in Central/Admiralty on 17 May 2008: Leighton-China State-Van Oord Joint Venture is the main contractor of the reclamation work



which has to be carried out under very stringent pollution control requirements.

The visit included slide presentation and site walk by means of a boat trip around the area. Various noise control measures including for example the use of noise



Central Reclamation

barriers and quiet construction plants were applied.

2. Technical visit to Hong Kong Movie City on 8 November 2008: It is one of the most technological advanced studios in the world with state-of-art noise control technologies to meet the most stringent noise criteria. It features one of the largest, fully air-conditioned and sound and vibration insulated soundstages which are supported by 6 Hz rubber isolators with lateral stiffening devices.



Shaw Studio



Experience Sharing Session

3. Experience sharing session with acoustic professionals on 10 November 2008: A gathering among several HKIOA committee members (Tom Ho, CL Wong, Dr CW Law and Grace Kwok)

and IVE students was held to enlighten students on the practices, prospect and development of the acoustic profession. It also gave students a chance to meet the practising professionals in the field. There was a good discussion, particularly at the end of the session.



Display booth

4. IVE (Morrison Hill) Open Days in 2007 and 2008: The Branch took part in the professional booth as one of the professional bodies in close affiliation with IVE (Morrison Hill). This gave us chances to publicize our Institute and profession.

Certificate Course on Road Traffic Noise Management and Assessment

Dr CW LAW



HKIOA held an 8-session Certificate Course on Road Traffic Noise Management and Assessment from 8 to 24 of September 2008, which was co-organized with HKIE-MMNC Division. Road traffic modeling techniques, noise mapping, EU policy, 3D visualization technique for modeling, case studies and practical hand-on experience on 3D noise assessment and visualization tools were included. It was successfully conducted with the help from Ir Dr Lixi HUANG, Ms Grace

LEUNG and Mr Alvin TSE and Dr CW LAW as tutors. A total of 22 participants joined the course and obtained the certificates.

Annual Meeting and 21st Symposium of Acoustical Society of Taiwan

Dr CM MAK

Mr KK IU, Dr LX HUANG and Dr CM MAK represented HKIOA to attend the annual meeting and 21st Symposium of Acoustical Society of Taiwan at China Medical University in Taichung on 21 November 2008. Dr CM MAK, Immediate Past



KK IU & Dr MAK (HKIOA)

頂尖卓越

Chairman of HKIOA, was invited to give a keynote speech on "A Delayed Coupled Room Model for Predicting the Performance of Early Energy Decay in Churches". Together with other delegates, HKIOA representatives attended the technical sessions in the symposium. It was a successful event that speakers from various scopes of acoustics presented their papers. Besides, it was a good opportunity for us and people from acoustics industry or academic institutes in Taiwan to meet friends and foster the relationship between HKIOA and the counterpart in Taiwan.



施鴻志(台灣)及麥卓明(香港)

Managing the Outdoor Acoustic Environment

Wilson HO



Prof KC LAM

Hong Kong Institute of Acoustics jointly organized a public lecture, **Managing the Outdoor Acoustic Environment**, on 26th Feb 2009 with The Chinese University of Hong Kong, HKIE-MMNC, and HKIEIA. The honorable speaker Professor **Lex BROWN** is Wai Lun Visiting Professor of the Chinese University. He served as Dean of Faculty of Environmental Sciences at Griffith University in Brisbane, Australia from 2003 to 2006. During the lecture, he shared his ongoing work on the topic of soundscape as acoustic ecology. Managing the Outdoor Acoustic Environment is a great step forward in comparison with reducing noise pollution as the daily work of many environmentalists. Totally 96 participants attended the lecture including government officials, professional engineers and university scholars. Thank you for **Professor KC LAM**'s fascinating introduction, **Dr Lawal MARAFA** for being the MC, and **Maurice YEUNG** for the Q & A session. Last but not least, thanks **Professor Lex BROWN** for the enlightening lecture.



Prof BROWN & Tom HO

Visit of Delegates from Acoustical Society of Shanghai & Editorial Board of "Technical Acoustics"

We are pleased to have received the delegation team from the Acoustical Society of Shanghai (上海聲學學會) and the Editorial Board of "Technical Acoustics" ("聲學技術" 編委會) during their visit to Hong Kong in December 2008.

The Shanghai delegation comprised 8 members, with 錢夢祿、龔農斌、毛東興、張明發 representing the Acoustical Society, and 姚蘭、胡長青、丁玉薇、章奎生 representing "Technical Acoustics".

Discussion on Acoustics Research and Development

Dr CM MAK

Shortly after the arrival of the delegation team on 9 December, a discussion meeting was organized in the afternoon at the Hong Kong Polytechnic University. The purpose of the meeting was to share with them about the acoustics research and development in the Department of Building Services Engineering in the Hong Kong Polytechnic University. Representatives from HKIOA included Dr Randolph LEUNG and Dr CM



Dr MAK & Prof MAO



YUN YI

MAK together with his research student Mr YUN Yi. In the meeting, Dr MAK, as one speaker, shared the recent development of building services and acoustics research works including the development of sustainable green building designed features and the experimental studies of flow noise from in-duct spoilers. In addition, he introduced their academic programmes to the delegation team. Another speaker, Mr YUN shared his recent research work on vibration isolation

for building services equipment. He started by introducing a power transmissibility method and then proposed the use of normalized average vibration velocities and overall rotational velocities to study the stability of the vibratory system. Participants were invited to express their views and exchanged idea on the research works. There was useful discussion among presenters and participants. Dr LEUNG later led the delegation team to visit the laboratory of the Department of Mechanical Engineering of the Hong Kong Polytechnic University.

Dinner Gathering

CL WONG

After the discussion and laboratory visit, committee members of the Institute had a dinner with the delegates at a nearby Chinese cuisine. We had fruitful exchanges and updated each other on recent developments. We also received from "Technical Acoustics" an elegant souvenir that would always remind us of the collaboration we enjoyed over the past years.



Tom & Prof YAO



Visit to Noise Barriers in Hong Kong

Dr CW LAW & Dr KW CHENG

In the sunny morning of 10 December, the Shanghai delegates, together with our KK IU, KW CHENG and CW LAW had a trip to visit some road traffic noise mitigation measures in Hong Kong. Starting from Harbour Plaza Metropolis Hotel, our first target was the noise barriers under construction at Cheung Pei Shan Road in Tsuen Wan. The project was a retrofitting project commenced in 2005 and the works were carried out by CEDD, which included over 1.5 km long cantilever barrier and semi-enclosure, costing over 160 million HK dollars. Our Shanghai guests were very interested in the materials used in the noise barriers (as shown in photos) and KK & Kin explained to them the usual design of noise barrier in HK. Our next target was the noise mitigation measures at Ma On Shan Bypass in Shatin, which included about 4km long semi-enclosure and cantilever barrier, finished in 2004 and costing over 380 million HK dollars. The project was a designated project under EIAO and the noise mitigation measures were built in the same time with the road also by CEDD. Our Shanghai delegates took a lot of photos on the semi-enclosure. During the trip, KK also introduced some noise mitigation measures along the route to our guests.



Tour of a Construction Site

Following the tour for Noise Barrier projects, the Shanghai delegates proceeded to visit a development site at Anderson Road in the afternoon. That was a project for site formation & associated infrastructure works. Thanks to Dr Ben HO and his company, China State



Evening Seminar

Members of the Shanghai delegation delivered 4 talks to the audience of HKIOA. The Chairman of the Acoustical Society of Shanghai, Professor QIAN Menglu, gave an overview of the Society and its various technical activities. Ir Professor YAO Lan, editor-in-chief of Technical Acoustics, introduced the history and current status of the journal, with the participation in the editorial board by HKIOA committee members (Dr CM MAK and Dr Randolph LEUNG). Ir



Construction Engineering (Hong Kong) Ltd for arranging that visit and briefing to the Shanghai delegates about the project and how noise control measures on the construction site were implemented. Thanks were also extended to Leo CHUNG and Anna YU for leading the site tour.

Dr Lixi HUANG

KK IU

Professor ZHANG Kuisheng gave a talk on the architectural acoustic designs for various large projects recently commissioned in Shanghai and surrounding areas. Finally, Professor MAO Dongxing gave a talk on his team's work on psychoacoustics at Tongji University with many interesting findings about Chinese hearing characteristics. There was a good round of questions and discussions in the seminar. Following the seminar, an agreement for HKIOA to co-sponsor Technical Acoustics was signed. The event was concluded with a dinner in Hong Kong PolyU.



Prof MAO



Prof ZHANG



Prof QIAN



Prof YAO



Prof QIAN & Tom HO

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第五届噪声控制与声学设计暨配套装备研讨交流会

Andy CHUNG



Andy CHUNG

第五届噪声控制与声学设计暨配套装备研讨交流会在香港声学学会常务理事程明昆教授的演讲下拉开帷幕。程教授的讲题是:环境噪声控制技术的最新进展(新理论、新技术、新标准、新规范)。这次研讨会专题众多,包括建筑振动噪声之隔声处理、商业建筑的声环境及新型环保吸声材料、轨道交通的轮轨噪声控制技术研究与应用等。行内各专家学者对这些专题展开热烈的讨论。Andy Chung 代表香港声学学会在大会上发言。简单介绍了学会从成立至今的发展里程,更把噪声控制等方面的研究、经验与大家分享,其中形像的三维噪音图象呈现博得了全场的掌声。

的声环境及新型环保吸声材料、轨道交通的轮轨噪声控制技术研究与应用等。行内各专家学者对这些专题展开热烈的讨论。Andy Chung 代表香港声学学会在大会上发言。简单介绍了学会从成立至今的发展里程,更把噪声控制等方面的研究、经验与大家分享,其中形像的三维噪音图象呈现博得了全场的掌声。



Andy & KK IU

Membership Data

as at 26 Feb 2009

Dr CW LAW

Membership Grade	Number
Honorary Fellow	2
Associate Member	58
Fellow	21
Member	187
Student Member	173
Total	441

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