



香港聲學學會

Hong Kong Institute of Acoustics

Chairman's Report 2012/2013

Introduction

It was my pleasure to serve as Chairman for HKIOA during the past months since the last AGM in June 2012. I must thank the Executive Committee for their dedicated supports and hard work. Despite only the 9-month period, we did achieve a lot, the highlights of which are in the ensuing paragraphs. The Institute has continued to provide professional developments to its members through various activities like technical seminars, regional conferences, social functions, etc. Our membership has been steadily growing, which gives indication of gaining recognition of the Institute by the industrial. Our finance is sound and well, and was able to offer members with concession to 2013 membership subscription, despite during the global inflation climate.

I would like to thank the Executive Committee again for their excellent participations and contributions to the Institute.

Executive Committee of the Institute

The Executive Committee met on a monthly basis and continued to manage the business of the Institute, organize and promote various activities to foster professional development of our members. The 2012/2013 Executive Committee comprises of the Chairman, 12 elected Committee Members, 2 Co-opted Member and 2 invited Advisers as follows:

Elected Committee Members:

Committee Members (Session 2012-13)

Chairman	Dr. K. W. Cheng
Immediate Past Chairman	Mr. Tom Ho
Honorary Secretary	Dr. C. W. Law
Honorary Treasurer	Mr. William Fung
Chairman, Membership Sub-committee	Dr. C. K. Chau [#]
Chairman, Publication Sub-committee	Ir Y N Au Yeung
Chairman, Information Technology Sub-committee	Mr. Aaron Lui

Chairman, Indoor Acoustics Sub-committee	Ms. Grace Kwok
Chairman, Activities Sub-committee	Mr. Wilson Ho
Chairman, Environmental Noise Sub-committee Sub-committee member	Prof. S.K. Tang Mr. Aaron Lui
Chairman, Noise & Vibration Sub-committee Sub-committee member	Ir Dr. Randolph Leung Mr. Wilson Ho
Chairman, Professional Development & Education Sub-committee Sub-committee member Sub-committee member	Dr. Raymond Lee Dr. Clief Tang Dr. C.W. Law
Chairman, Construction Noise Sub-committee Sub-committee member	Mr. M.K. Cheung Mr. Schroeder Tam [#]
Invited Advisor (Institution Advancement & Discipline)	Ir K.K. lu
Invited Advisor (External Liaison)	Ir Maurice Yeung

Appointed by the 2012/13 Executive Committee as Co-opted Member

Finance

Our Institute remained in a healthy financial position for the year ended 31 December 2012. Most of our income came from membership fees, seminar / course fees, and bank interest. The accounts of the Institute have been audited and details of the financial situation would be provided by our Treasurer, Mr. William Fung in a separate report.

Student Branch

The Student Branch at the IVE's Morrison Hill campus continued to function and provided students opportunities to organize activities and to be more familiar with the acoustics field. The Branch co-organised the following seminars with HKIOA:

- Innovative Noise Mitigation Designs and Measures in Hong Kong on 28 September 2012;
- Experience sharing on complaints handling on 14 Jan 2013

In order to arouse the interest of university students in both undergraduate and post-graduate levels, and get them involved in pursuing a career in the field of acoustics, noise and vibration control, a HKIOA University Student Branch is scheduled to be established in 2013. Student membership in HKIOA and involvement in the Student Branch is certainly a good beginning towards meeting this goal. The first University Student Branch is setup in collaboration with The Hong Kong Polytechnic

University (PolyU) and housed in Department of Mechanical Engineering of the university. The HKIOA PolyU Student Branch will offer members the opportunity to interact and network with HKIOA senior members and practicing professionals, to participate in HKIOA technical tours and society activities, and to interact with students from other PolyU departments and IVE Student Branch with the same career interest. The founding committee for PolyU Student Branch has been formed and is working hard in promoting HKIOA student membership within PolyU. The inauguration ceremony of PolyU Student Branch is scheduled shortly after this AGM.

Membership

The number of membership applications has been slightly increased during the year 2012/2013, as compared with last year. The Institute has continued to receive enquires from local practitioners in acoustics expressing their interest in joining the Institute. From 31th May 2012 to 21st February 2013, we have so far processed a total of 23 membership applications. Among these applicants, 15 were elected as Corporate Members and 4 were elected as Associate Members. On top of that, we have also assisted our counter-part, Institute of Acoustics of United Kingdom in assessing one of their membership applications. Despite the drop-out of a few members, we are hoping that the Institute will continue to grow with more new comers from various disciplines, which in turn will enrich the knowledge and the culture of the Institute.

The trend of membership and its profile up to 21st February 2013 are given as follows:

Grade	As at Feb 2005	As at 1 Mar 2006	As at 1 Feb 2007	As at 4 Feb 2008	As at 6 Feb 2009	As at 19 Feb 2010	As at 3 Mar 2011	As at 31 May 2012	As at 21 Feb 2013
Asso. Fellows	4	4	4	4	#	#	#	#	#
Hon. Fellows	2	2	2	2	2	2	3	3	4
Associate Members	54	51	53	54	58	58	64	74	74
Fellows	21	21	21	21	21	21	21	21	21
Members	150	155	171	182	187	193	199	194	205
Students	4	3	3	3	71	173	119	119	119
Total	235	236	254	266	339	447	406	411	423

It should be noted that the grade of "Associate Fellows" has been dispensed according to the MOA of the HKIOA Limited since 2008. The members according to this grade of membership have been transformed to other grades.

A new class of Sponsor Membership was established since January 2011 and opened to firms, organizations or persons engaged in or having an interest in acoustics. An annual subscription is required. Staffs of a Sponsor Member would gain better vision and wider exposure through participating events and activities organized by the Institute to keep abreast of the acoustics development while enjoying member's privileges and price. Representatives of Sponsor Members will receive flyers, notifications and publications of the Institute from time to time. Full details are available from the HKIOA website.

Education

HKIOA Professional Diploma on Acoustics

The course has been made available under a de-centralized system making use of the extensive resources already available in Hong Kong, and the perceived advantage of this operational model is that it caters for the needs of any number of students at anytime. The Executive Committee is hoping that the diploma course could help those who wish to acquire more knowledge and gain qualifications in the acoustics field. Full details are given at the HKIOA website: <http://hkioa.org/diploma.html>.

Meyer Poon Memorial Awards for 2012

In 2012, a total of 7 entries were received by 2 August for the Meyer Poon Memorial Award, 3 in the undergraduate category and 4 in the postgraduate category. All seven were short-listed and the presentations were held on 2 August 2012 at EF305, HKPolyU. The presentation started at 7:00 pm and the award ceremony followed. A total of seven panelists were involved, including Dr. C.K. Chau, Dr. Kin Cheng, Dr. Raymond Lee and Dr. Clief Tang.

The awards were given by HKIOA Chairman, Dr. Kin Cheng, immediately following the short panel discussion. In the end, we congratulated the following students for winning this year's awards and thanked all supervisors for encouraging their students to participate in this annual activity.

Undergraduate category:

- **Winner: Lam Cheung, Choi Yun Sing, Lu Pui Hoi, Kam Tsz Yan Joanna, Lau Shiu Long, and Ting Kam Tung: Power Generation & Vibration Reduction by Floating Slab Using Recycled Loudspeakers**

- **1st runner-up: Ng Tsz Kin, Man Chi Hon, and Ng Lun Hoi: Hybrid Duct Noise Control Method**
- **2nd runner-up: Cheng Hiu Ching: Natural Ventilation of Building Using Wing Wall and New Acoustic Material**

Postgraduate category:

- **Winner: David Mark Wong: The Impedance of Micro-slit Panel on Normal Incident Sound**
- **1st runner-up: Yang Qian: Thermo-mechanical Properties of One-dimensional Nanostructures Based on Nonlocal Elasticity Theory**
- **2nd runner-up: Yu Yumiao: Analytical and Numerical Studies for Nanotubes and Nanoplates Based on a Nonlocal Elasticity Approach**

Certificate Courses on Architectural Acoustics Design, Noise Control, Road Traffic Noise Assessment and Measurement

Apart from technical seminars/visits, to foster continuous professional development, HKIOA, together with HKIE-MMNC & ASME Hong Kong Section, had organized Certificate Courses on Architectural Acoustics Design, Noise Control, Road Traffic Noise Assessment and Measurement from 21 January and 27 March of 2013. The courses aim at providing the local industry with updated skills and techniques required for noise control, road traffic noise assessment and measurement, and Architectural Acoustics Design. The 20 sessions of courses were held mainly at the IVE at Lai Chi Kok. Practical session of noise modelling and in-situ session on road traffic noise measurement would also be conducted.

Ir Dr. Clief Tang from Quality Control Consultants Ltd., Ms. Grace Kwok from Allied Environmental Consultants Ltd., Mr. James Choi from EDMS Consulting Ltd., Mr. Joe Leung, Mr. Jimmy Wong, Ir CK Lee, Dr. CW Law, Ir Isaac Ng and Mr. Benson Lee from Environmental Protection Department, Prof. SK Tang from Polytechnic University, Mr. Tom Ho from S & V Samford Instruments Co. Ltd. were the speakers. All of them were experienced professionals in the acoustics industry. The responses were encouraging and 30 participants were enrolled. The courses are still in progress but feedbacks are very positive. In short, participants considered that the certificate courses were very useful in the noise control, understanding of the relevant legislation and building acoustics. Technically, they considered they could better refresh themselves in road

traffic noise modelling and measurement. The Institute will offer the courses on regular basis and those not admitted in this round will be given priority in the next round.

Activities

The Institute has been organizing a number of activities to keep our members abreast of the trend and development in acoustics. We fostered partnership and synergy with other educational / professional institutions for some of these activities. Special thanks are given to Hong Kong Institute of Architects (HKIA), The Chartered Institution of Water and Environmental Management (CIWEM) and Hong Kong Institute of Environmental Impact Assessment (HKIEIA), The Hong Kong Institution of Engineers (HKIE) for their continuous support to many of our activities. Here is a brief summary of the events during the 2012/2013:

Date	Activities
13 June 2012	2012 Annual General Meeting
2 August 2012	Meyer Poon Memorial Awards 2012
28 September 2012	Seminar on Innovative Noise Mitigation Designs and Measures in Hong Kong
19 October 2012	Seminar on Innovative Building Designs for Noise Mitigation Jointly Organized by HKIOA & HKIA
31 October & 8 November 2012	CPD Courses on “Innovative Building Designs for Noise Mitigation” Jointly Organized by HKIOA & HKIA
23-24 November 2012	The 5th Cross-strait Many Cities Symposium on Acoustics 第五屆 - 海峽兩岸多地聲學技術交流研討會
7 December 2012	Making Sense of Tranquility in Hong Kong Urban Setting Jointly Organized by CUHK & HKIOA
11 December 2012	Joint Christmas Party with HKIOA, HKIEIA & CIWEM
14 January 2013	Seminar on Experience Sharing on Complaints Handling
21 January 2013 – 27 March 2013	Certificate Courses on Architectural Acoustics Design, Noise Control, Road Traffic Noise Assessment and Measurement
6 March 2013	2013 Annual General Meeting

Publication

Most of the activities conducted by the Institute have been reported in our newsletter “Sounding Board”, which is released as an electronic publication on our website. It

provides a good medium not only for keeping members informed on our achievements throughout the year, but also for other interested readers to know more about our acoustics community. We have to thank those members who have contributed informative and interesting articles for this publication. We will continue to make full use of the Sounding Board to promote sharing and communication among members.

Information Technology

Events organized or co-organized by HKIOA were regularly uploaded to the HKIOA website. Any person who is interested in joining HKIOA can visit our website to learn about the entry requirements and download an appropriate application form.

In 2012-13, our website (www.hkioa.org) has just been revamped with a view to providing better services to members as well as the public. In this new version, a photo gallery containing photos taken during various activities were uploaded for easy sharing among members. It does help to bring back all the memorial and joyful moments. In addition, the new version also published the information on the institute's membership for verification, as well as the acoustics related local suppliers/contractors/consultants for which subscriptions are required.

The 5th Cross-strait Many Cities Symposium on Acoustics 第五屆 - 海峽兩岸多地聲學技術交流研討會

In the past three year, the symposiums were held in Taipei (2009), Shanghai (2010), and Hangzhou (2011) respectively, and in 2012, the meeting was organized by the Hong Kong Institute of Acoustics in Hong Kong, and co-organized by the Shanghai Acoustical Society, the Acoustical Society of Republic of China, and Chinese Society of Sound and Vibration.

The Local Organizing Committee (OC) comprised of the Chairman, Dr. Kin Cheng, the Secretary, Mr. William Fung, and members including Dr. C.W. Law, Ir K.K. Iu, Ir Maurice Yeung, Mr. Wilson HO, Mr. Aaron Lui, Ms. Valerie Kung, Dr. Randolph Leung and Dr. Lixi Huang. With the hard work of the OC, overwhelming responses were received with 67 delegates from PRC, Taiwan as well as Macau, and over 40 local participants.

26 technical papers were presented during the 1 1/2-day programme, followed by the technical visit to MTR Tai Wai Depot. The programme was very tight but fruitful and enjoyable. Delegates also enjoyed the banquet in the evening of 23 Nov. with string quartet performance.

The symposium was successfully conducted and provided an excellent opportunity for networking among participants. The next similar symposium will be organized by the counterparts in Taiwan in Nov. 2013.

External Liaison

In 2012/13, while we were busy in organizing activities in local, representatives of our institute also attended international conference/meeting to promote the institute, enhance collaborations, and foster long term relationship with the counterparts. A brief account of these events is:

1. “Technical Acoustics” Journal –Ir Dr. Randolph LEUNG and Ir Dr. CM MAK continued to contribute as members of the Editorial Board for this journal which is published quarterly. They keenly liaise with the Shanghai Institute of Acoustics to make the collaboration a success, and promote submission of papers from our members for publishing.;
2. Ir K.K. IU attended the AGM of the Acoustical Society of R.O.C. & Chinese Society of Sound & Vibration in Nov. 2012, and contributed to the planning for the 5th Cross-strait Many Cities Symposium on Acoustics in Nov 2012;
3. The 41th International Congress and Exposition on Noise Control Engineering (also known as Inter-Noise 2012) – The Congress was a joint meeting of INCE and ASME Noise Control and Acoustics Division, and combined sessions were held from 19 to 22 August 2012 throughout the conference at the same venue in New York City, USA, featuring 1,063 technical papers, 1,485 registrants, and 68 exhibitors to address the theme “Quieting the World's Cities”. The Hong Kong delegation comprised of Ir Maurice Yeung, Professor K.C. Lam, Professor W.T. Hung, Professor Li Cheng, Professor C.F. NG, Mr. Issac NG and their students. Tom Ho also took part in the Inter-Noise Congress Selection Committee meeting to assist in deciding and recommending to I-INCE which society would host the coming Inter-Noise congresses.

We often worked together with HKIE, HKIA, HKIEIA and HKPolyU & IVE in organizing seminars and courses. This form of cooperation has proved to be a synergy for mutual benefits of our members and we hope to have more similar joint functions in future.

Sponsorship to be provided for attending Inter-Noise 2013

To encourage active participation in international acoustical conferences, the Institute would continue to provide sponsorship of HK\$3,000 for attending Inter-Noise 2013 with a maximum of 3 sponsorships per year. Author(s) need to acknowledge HKIOA for the

sponsorship in their publications. We are hoping that through these sponsorships our members can be benefited in terms of their exposure and networking.

The Way Forward

With the efforts, achievements, and available resources so far, I am sure that the institute would be able to move ahead and continue to develop. Year 2013 is the 20th Anniversary of the Institute, and hence is very special for all of us and our members. A dedicated celebration committee was established, aiming at organizing a series of celebration activities throughout the year. I trust these activities will not only consolidate the institute's achievements so far, but also help the Institute to gain recognition from the community. In addition, the Institute will continue to provide professional developments to members through technical seminars and programmes. Bidding for Inter-Noise 2017 could also be the target to pursue.

In closing, I would like to stress that continual support from our members are essential to make our future endeavour a success.



Dr. Kin Cheng
Chairman