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Hong Kong Institute of Acoustics

Chairman's Report 2018/2019

1 Introduction

It has been my pleasure to serve as Chairman of HKIOA during the past year since the last AGM in March 2018. Firstly, I must thank the Executive Committee for their dedicated support and great efforts. We have achieved a lot in the past one year, which marked the very significant 25th year and Silver Jubilee of the HKIOA. The Institute has continued to facilitate professional developments among its members through various activities like technical seminars, regional conferences, and social functions for networking. Our membership has grown steadily, with 10 new Corporate Members, 9 Associate Members joined the Institute since last AGM and up to end February. Among our Members, two Corporate Members has been successfully transferred to the grade of Fellow Member.

This year, the Institute actively organized local courses, conferences, symposiums, and exhibitions successfully with friendly local and regional institutions. This gives an indication that the Institute has continued to gain recognition in the industry and the profession, and in the Asia Pacific Region. I would like to express my sincere gratitude to the Executive Committee and the Organizing Committees for various events again for their remarkable contribution to the Institute.

2 Executive Committee of the Institute

The Executive Committee met almost on a monthly basis and managed the business of the Institute, organized and promoted various activities to foster professional development of our members and recognition of the acoustic profession. The 2018/2019 Executive Committee comprises of a Chairman, 11 elected Committee Members, 4 Co-opted Member. Moreover, the Immediate Past Chairman and the 3 Honorary Advisers had advised the Committee on various matters of the Institute.

2.1 Committee Members (Session 2018 – 2019)

Chairman	Dr CW LAW
Hon Secretary	Mr Aaron LUI
Hon Treasurer	Mr Wilson HO
Chairman, Membership SC	Mr Joshua CHUNG Mr CL Wong (Co-Opt)
Chairman, IT SC	Mr Aaron LUI
Chairman, Indoor Acoustic SC	Mr William FUNG Mr Henry CHAN
Chairman, Activities SC	Mr Chris KWOK Dr Cindy CHEUNG (Co-Opt)
Chairman, Environmental Noise SC	Ir CK LEE (Co-Opt) Dr Calvin CHIU



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Co-Chairman, Noise & Vibration SC	Dr Randolph LEUNG Mr Wilson HO
Co-Chairman, Professional Development & Education SC	Dr Clief TANG Mr Ken WONG Dr Randolph LEUNG
Co-Chairman, Construction Noise SC	Mr Ken WONG Mr Alson PANG (Co-Opt)
Chairladies, Women in Acoustics SC	Ms Valerie KUNG
Chairman, Publication SC	Dr Calvin CHIU

2.2 Others:

Immediate Past Chairman	Ms Grace KWOK
Hon Adviser (Institution Advancement & Discipline)	Prof. K. C. LAM Ir KK IU Mr Louis CHAN

3 Finance

The Institute remained in a healthy financial position for the year ended 31 December 2018. The accounts of the Institute have been audited by an external independent auditor and details of the financial situation would be provided by the Honorary Treasurer, Mr Wilson HO, in a separate report.

4 Membership

The number of membership applications has gradually increased during the year 2018/2019, 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 March 2018 to March 2019, we have received a total of 66 nos. membership applications. As at end-February, 17 nos. of applicants were elected as Corporate Members, 22 nos. were elected as Associate Members, 2 no. Corporate Member was transferred to Fellow Members. We are hoping that the Institute will continue to grow with more new members coming from various disciplines, which in turn, will enrich the knowledge and the culture of the Institute.

4.1 Membership Profile

The trend of membership and its profile up to 15th March 2019 are given as follows:

Grade	31/5/12	21/2/13	21/2/14	12/3/15	19/2/16	28/2/17	15/3/18	1/3/19
Hon. Fellow	3	4	4	4	4	4	4	4
Associate Members	74	74	80	86	93	76	73	82
Fellows	21	21	21	21	21	18	19	21
Members	194	205	210	231	242	235	250	260
Students	119	119	120	120	120	226	226	371
Total	411	423	435	462	480	559	572	738



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A new class of Membership, namely Sponsor Member, was established since January 2011 and opened to firms, organizations or persons engaged in or having an interest in acoustics. An annual subscription was 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.

The Institute has implemented a new system of assessment for applications received after 1 Jan 2018, which requires a professional interview before admission to the class of Corporate Members as Fellow or Member. An application Fee of HKD300.00 will be charged for each application received on or after 1 Jan 2018 for the class of Associate Member and the class of corporate member (Fellow or Member) to cover the administrative cost. The application for Student Member is free of charge.

4.2 Student Branch

One of the key direction of work of the Institute is to nurture the growth and development of the younger generation, and to better support the growth of the Student Branch. This year, we have the great pleasure to announce the establishment of a new Student Branch in Shatin IVE on the 26th September, 2018. The Student Branches at The Hong Kong Polytechnic University and The IVE's Morrison Hill campus continued to grow and provided students with opportunities to connect with professionals through their active participation in our various activities.

The handing-over ceremony of the PolyU Student Branch and the Morrison Hill IVE Student Branch would be held soon after the Chairman's Report in the AGM.

5 Education

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

Our annual acoustic certificate course is continuing to be a success this year. HKIOA in partnership with Hong Kong Institution of Engineers – Mechanical, Marine, Naval Architecture and Chemical (HKIE-MMNC) Division and BEAM Society Limited (BSL) proudly offers a certificate course for HKIOA members on various noise and acoustic topics. These 23 sessions and 6 assessments sessions ran from 25 June to 10 September 2018. Various acoustic professionals were invited to speak in the lectures including Mr. Aaron LUI, Mr. Richard KWAN, Dr. F.C. TSANG, Ir C.K. LEE, Mr. Benson LEE, Mr. Joe LEUNG, Ir C.L. WONG, Mr. Tom HO, Mr. James CHOI, Mr. Henry CHAN, Prof. K.C. LAM and Mr. Wilson HO.

This course is aimed at providing local professionals with a refresher or enhancement in knowledge on basic acoustic concepts, noise ordinance, road traffic noise assessment and measurement, 3D noise modelling, architectural acoustic design and railway noise measurement. The updated substance of the course also aligns with the noise topical area of the professional assessment requirement as an institutional partner of HKIQEP. A total of around 42 enrolments



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were recorded this year with many positive feedbacks from participants. We look forward to welcoming new participants next year.

5.2 Intensive Training Course on Acoustics in Green Buildings by BEC, HKIOA and Beam Society Ltd

With a view to enriching green building practitioners' knowledge of acoustics, the HKIOA co-organized an Intensive Training on Acoustics in Green Buildings with Business Environment Council (BEC) and BEAM Society Limited on 16, 23 and 26 April 2018 at BEC Auditorium in Kowloon Tong. This training course received positive responses from industry practitioners and attracted 264 participants including architects, engineers, consultants, contractors and surveyors.

The course consisted of three sessions covering a variety of topics such as architectural acoustics design, related statutory requirements and BEAM Plus submission requirements. Ir C K LEE, Chairman of HKIOA Environmental Noise Subcommittee, and Ms. Grace KWOK, HKIOA Immediate Past Chairman, represented HKIOA to deliver two of the sessions and shared their knowledge of noise assessment and fundamentals of acoustics with participants respectively. As the only learned acoustical society in Hong Kong, the HKIOA will continue to foster professional development of acoustics practitioners in the industry through co-organizing technical seminars with professional institutions.

6 Activities

The Institute organized a number of activities to keep our members abreast of the trends 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), MMNC of The Hong Kong Institution of Engineers (HKIE), the Hong Kong Institute of Qualified Environmental Professionals (HKIQEP), the Hong Kong Polytechnic University, and the Hong Kong University for their continuous support to many of our activities. Here is a brief summary and highlights of some of the events during the 2018/2019:

Date	Activities
16-04-2018	HKIQEP CPD Event - Green Jobs Matter: How and Why
16-04-2018	Intensive Training Course On Acoustics in Green Buildings by BEC, HKIOA and Beam Society Ltd
20-04-2018	HKIE-MMNC Workshop - Innovation for Future
25-04-2018	HKIOA Joint Seminar - Pioneering Rail Damper - An Invention in Hong Kong
03-07-2018	HKIOA Seminar - Noise Control Policy and Mitigation Design in Victoria, Australia
25-06-2018	Assessment, Noise Monitoring & Measurement, 3D Noise Modeling, Architectural Acoustics Design, and Railway Noise Measurement
26-07-2018	HKIOA 25th Anniversary Seminar Series : The 11 th Cross-strait Acoustic Conference (第十一屆海峽兩岸聲學學術交流研討會議)
26-09-2018	Establishment of a new HKIOA Student Branch in Shatin IVE



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10-10-2018	HKIOA Supported Seminar Series - HKIE "Seminar on Understanding the Earth Through the Lens"
25-10-2018	HKIOA & HKCA Joint Symposium & Exhibition - Smart Construction for Quiet & Eco-Expo Asia
29-10-2018	Technical Seminar On Underwater Acoustic And The Application Of The Hydrophone To Assess The Impact To Marine Mammals
14-11-2018	HKIOA Technical Seminar on Aircraft Noise Assessment and Control
12-12-2018	HKIOA 25th Anniversary Gala Dinner & Christmas Party
24-02-2019	Hong Kong Soundscape – A Sound Map Creation Competition Submission of Entry Opens Today
23-02-2019	HKIOA - Charity Event to Benji's Centre (庭恩兒童中心) on 23/2(Sat)

6.1 The 11th Cross-strait Acoustic Conference (第十一屆海峽兩岸聲學學術交流研討會議)

This year, the 11th Cross-strait Acoustic Conference was held in Hong Kong, following the previous conferences hosted in Taiwan (2009, 2013, 2017), Macau (2016), Beijing (2015), Yunnan (2014), Hangzhou (2011), Shanghai (2010) and Hong Kong (2012, 2008). The symposium was hosted by the Hong Kong Institute of Acoustics (HKIOA) and the Department of Mechanical Engineering of the Hong Kong Polytechnic University. It was co-organized by the Shanghai Acoustical Society, Shanghai Zhang Kuisheng Acoustic Engineering Consultants Limited, Chinese Society of Sound and Vibration, Taiwan Acoustical Association and Macau Instituto de Acústica. Guest speakers include Dr Thomas Scelo (Director, Marshall Day Acoustics), Prof. K.C. Lam (Hon. Advisor of HKIOA), Prof. D.X. Mao (Professor, Tongji University) and Prof. Z. Y. Yang (Professor, HKUST).

There were 24 technical papers presented during the 2-day programme and some over 80 participants. In the conference, research topics included indoor acoustical design, environmental noise impact assessment and control, material science, innovations of at-source and at-receiver noise mitigation measures, acoustical modelling review, quiet construction/renovation and planning control.

6.2 HKCA & HKIOA Joint Symposium of “Smart Construction for Quiet”

Co-organized by Hong Kong Construction Association (HKCA) and HKIOA, the “Smart Construction for Quiet (SCQ)” Symposium was held at Asia World Expo on 25 October 2018 as a “side-by-side” event with Eco Expo Asia 2018. World-renowned experts had shared their views and experiences of the latest policy development in tackling construction noise, the most updated practices in noise management, and innovative quiet construction / demolition methods. Besides, we had invited Mr WONG Kam-Sing, JP as our keynote speaker to share with us about his vision of “QUIET”. Other distinguished speakers including Mr Colin ENGLISH from U.K. (Past President of UKIOA), Mr Paul MADDOCK from Australia (New South Wales Environment Protection Authority), Mr Ee-Khoon LIM from Singapore (National Environment Agency, Singapore), Mr Caspar Ter BILLE from Netherland (Acosorb), Mr Shunsuke SAKURAI & Yoshio SHINOHARA from Japan (Kobelco), and professionals in industry in Hong Kong including Dr Kin CHENG (EPD),



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Mr Peter LEE (Airport Authority HK), Mr Raymond WONG (MTR), Mr Eddie TSE (Gammon) and Ir N.H. ISA (for Central Wanchai Bypass project).

The 4 days SCQ Pavilions were another highlight in Eco Expo Asia where exhibitors showcased various innovative and quiet construction and demolition methods, practices, equipment and tools. Two eye-catching quiet hybrid excavators were mobilized for display there. Responses from visitors were very positive. According to the statistics from HKTDC, over 140,000 participants had visited the exhibition.

Technical visits were held after the symposium. Visited the Hong Kong International Airport - Marine Traffic Control Centre (MTCC) of Three-Runway System (3RS) Project. MTCC works 24-hour to monitor 3RS vessel movements for the management of construction activities (26 October 2018).

Visited the Hilti's Hong Kong Tool Service Centre for the "Top of the class" power tool services including tool diagnosis, inspection and testing process (26 October 2018).

Visited the Liebherr (HKG) Ltd workshop for demonstration of Sound Power Level (SWL) measurement for Quality Powered Mechanical Equipment (QPME) label renewal according to European measurement standard (27 October 2018).

6.3 The 25th Anniversary Gala Dinner cum Christmas Party

Founded in 1993, it was the 25th anniversary of the HKIOA in 2018. To cherish the past history and the remarkable development of the Institute, a gala dinner cum Christmas party was held for celebrating this memorial moment in a hotel in Tseung Kwan O. There was overwhelming response with more than 200 participants including guests from overseas and local institutions as well as our members. This joyful gala dinner ended with great success and bring back a lots of wonderful memories.

6.4 Hong Kong Soundscape – A Sound Map Creation Competition

The Hong Kong Soundscape – A Sound Map Creation Competition was launched on 19 December 2018 and is now accepting entries from the general public until 31 March 2019. As one of the activities in celebration of the Institute's 25th anniversary, the Competition is the first of its kind in Hong Kong aiming to raise public awareness of local soundscape and to promote the idea of treating sound as resources and the importance of ambient sound environment. It also serves to lay the groundwork for future discussion on practical and policy application of soundscape concepts in local urban design.

The Competition consists of three main themes, namely Urban City, Nature Scenery and Cultural Landscape. Interested Hong Kong residents are invited to submit a short sound clip recorded in Hong Kong, together with a brief description of the sound environment as well as photos or videos. After the submission period, the public will be invited to participate in an online voting and soundscape survey, where they will be asked to select the most liked sound clip under each theme and indicate their perception of local soundscape when listening to the sound clips. Eventually, a sound map for Hong Kong will be created for public education, tourism promotion and preservation of local soundmarks.



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The Competition has garnered support from seven sponsors (including a media sponsor), 17 supporting organizations, and a media partner. The heavyweight judging panel comprises experts and representatives from government departments and professional bodies, including Mr WONG Kam-sing, GBS, JP, Secretary for the Environment. Ms Sharon KWOK, a well-known marine conservationist, supports the Competition as Sound Map Ambassador and spreads the message to the community through promotional videos, which are broadcast through the Institute's owned channels including Facebook page and the Competition's website. In addition, an integrated approach has been adopted to promote the Competition, covering a variety of online and offline marketing initiatives such as a radio interview with Commercial Radio Hong Kong, paid advertisements on Facebook, poster display at public piers, direct invitations to schools, and so on. Tentatively, the Hong Kong Soundmap delivered by HKIOA will be launched in April 2019.

7 Publication

7.1 25th Anniversary Booklet

The booklet for 25th anniversary silver jubilee celebration of HKIOA was published and distributed in the gala dinner held on 12th December 2018. The publication summarizes activities organized and co-organized by HKIOA in recent 5 years after the 20th anniversary celebration in 2013. Activities included the InterNoise 2017 - 46th International Congress and Exposition on Noise Control Engineering, the 2018 Cross Strait Acoustical Conference, the Quiet Construction conference and symposium, and the Soundscape Symposium, local seminars and technical visits for knowledge sharing; series of structured training and courses to train up practitioners locally, publication of technical papers; and participation in social activities and charity events.

7.2 Sounding Board

Most of the activities conducted by the Institute have been reported in our newsletter "Sounding Board", which is released as an electronic publication to Members and posted 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 to the informative contents in this publication. We will continue to make full use of the Sounding Board to promote sharing and communication among Members.

7.3 Facebook Page

Apart from the email based communication, the official Facebook page of the institute (<https://www.facebook.com/Hong-Kong-Institute-of-Acoustics-119095824816707/>) is now put into service to facilitate the communication with the members. All the activities information, updates, promotions and photos will be posted on the page regularly. The Facebook page is also an enquiry platform for the members/public.

8 Information Technology

The HKIOA website has continued to serve as a platform of communications between the Institute and our Members. The Membership account created for each of our Members would enable our Members to update their personal details, pay their annual membership fees on line by credit



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cards or PayPal and to pay for seminars and conferences. Our membership application process can now be done all through electronic means and any person who is interested in joining HKIOA can visit our website to learn about the entry requirements, download and submit their appropriate application form via emails.

In 2018-19, our website (www.hkioa.org) has continued to provide services to members as well as interested parties in the public. The photo gallery containing photos taken during various activities were uploaded for easy sharing among members. It does help to bring back many wonderful memories for Members who had participated in our activities and for those who would like to catch up with us. The information on the institute's membership was updated from time to time and published in the website for verification. More and more information and contacts of acoustics related local suppliers/contractors/consultants (subscriptions are required) have also been posted for the information of the public.

9 External Liaison

In 2018/19, while we were pre-occupied in organizing various local activities, 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:

“Technical Acoustics” Journal – Ir. Dr. Randolph LEUNG continued to contribute as members of the Editorial Board for this journal which is published quarterly. They keenly liaised with the Shanghai Institute of Acoustics to make the collaboration a success, and promoted submission of papers from our members for publishing;

Engagement exercise of Building Department for reviewing the mechanism for encouraging a Quality Built Environment (QBE) through Gross Floor Area (GFA) Concession – Dr. Calvin CHIU represented HKIOA in the stakeholder engagement exercise and raised suggestions from the perspectives of the Institute, the acoustics professionals and the industry.

Quiet Construction Working Group with Hong Kong Construction Association (HKCA) and Environmental Protection Department (EPD) – Mr. Ken WONG represented HKIOA in the working group and provided views and suggestions to the construction trade and the government from the angle of acoustics professionals and industry.

Occupational Health Award 2018-19 of Occupational Safety & Health Council (OSHC) – Mr. Alson PANG represented HKIOA as a Member of the judging panel for the award.

Green Building Competition for Schools 2018 of Hong Kong Green Building Council (HKGBC) – Mr. Henry CHAN represented HKIOA as a Member of the judging panel for the competition.

We often worked together with HKIE-MMNC, HKIQEP, HKPolyU, HKU in organizing seminars and courses. This form of cooperation has proved to be a synergy for mutual benefits of our members and we hoped to have more similar joint functions in future.



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10 The Way Forward

In 2019, HKIOA will continuously strengthen our position as the only learned acoustical society in Hong Kong. While we will also continue to co-organize technical seminars and talks with various professional institutions from time to time in order to nurture acoustics professionals and foster professional development of industry practitioners, we will try to promote and strengthen the best practices in the acoustics profession in Hong Kong.

Being one of the Institutional Partners of HKIQEP, HKIOA will continue to strengthen our partnership with HKIQEP and uphold our mission to promote the knowledge and maintain the integrity of the acoustics profession. We will continue to participate in stakeholder engagement meetings organized by the government and professional bodies such as Hong Kong Green Building Council to provide professional advice on setting industry standards on acoustics with an aim to contribute our knowledge and experiences to the society.

Taking this opportunity, I would like to express my sincere gratitude to all the Executive Committee Members and Organizing Committee Members who have been involved in various kinds of activities such as The 11th Cross-strait Acoustic Conference, Smart Construction for Quiet Symposium 2018 and the Exhibition, the 25th Anniversary Gala Dinner and the Anniversary Booklet, the Certificate Course, the Sound Map Competition, the IT cum website enhancement, and so on.

In closing, I would like to stress that continuous support from our members is the essence to make our future endeavor a success. With your support and the great efforts of our Committee Members, I am sure that the Institute would continue to grow and reach further new heights.

Dr C. W. Law

Chairman