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Hong Kong Institute of Acoustics

Chairman's Report 2019/2020

1 Introduction

It has been my pleasure to continue to serve as Chairman of HKIOA during the past year since the last AGM in March 2019. Firstly, I must thank the Executive Committee for their dedicated support and great efforts to go through the difficult time in the past one year due to the Coronavirus Epidemic. We have still achieved a lot and have continued to facilitate professional developments among its members through various activities like technical seminars, educational training, regional conferences, international collaboration and social functions for networking. Our membership has grown steadily, with 15 new Corporate Members, 10 Associate Members joined the Institute since last AGM and up to end April 2020.

This year, like other professional institutes in Hong Kong, most of the scheduled events in the past half year have been postponed or cancelled, the Institute still managed to organize local and regional conferences, site visits, and even local and international competitions in the second half of 2019. Taking the opportunity, we had also upgraded our website with more user friendly functions. 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 2019/2020 Executive Committee comprises of a Chairman, 12 elected Committee Members, 4 Co-opted Member. Moreover, the Immediate Past Chairman and the 2 Honorary Advisers had advised the Committee on various matters of the Institute.

2.1 Committee Members (Session 2019 – 2020)

Chairman	Dr CW LAW
Hon Secretary	Mr Aaron LUI
Hon Treasurer	Dr Calvin CHIU
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	Dr Calvin CHIU Dr KW CHENG (Co-Opt)



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Co-Chairman, Noise & Vibration SC	Dr Randolph LEUNG Mr Wilson HO
Co-Chairman, Professional Development & Education SC	Prof SK TANG 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

3 Finance

The Institute remained in a healthy financial position for the year ended 31 December 2019. 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, Dr Calvin CHIU, in a separate report.

4 Membership

The number of membership applications has gradually increased during the year 2019/2020, 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 last AGM to end-April, 15 numbers of applicants were elected as Corporate Members, 10 numbers were elected as Associate 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 30th April 2020 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	30/4/20
Hon. Fellow	3	4	4	4	4	4	4	4	4
Associate Members	74	74	80	86	93	76	73	82	86
Fellows	21	21	21	21	21	18	19	21	21
Members	194	205	210	231	242	235	250	260	275
Students	119	119	120	120	120	226	226	371	341
Total	411	423	435	462	480	559	572	738	727



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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 directions 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.

The current student branch chairmen, Mr Gary YUEN from PolyU, Mr John TSE from the Morrison Hill IVE, and Mr Zigin LAI from the Shatin IVE will continue their service as chairman of the corresponding student branches.

5 Education

5.1 Training on Essentials of Environmental Noise

HKIOA and BEC Institute of Environmental Education co-organized a training to convey essential knowledge of environmental noise from fundamentals to applications to participants. Two sessions of training were conducted on 6 & 20 July 2019 at BEC Building, Kowloon Tong to cover basis acoustics principle, fundamentals of environmental noise, noise pollution source & impact, noise monitoring & measurement, Noise Control Ordinance, Environmental noise management, noise prediction modelling and calculation of road traffic noise methodology. The syllabus in Hong Kong Institute of Qualified Environmental Professional (HKIQEP) regarding environmental noise was well covered in this training to facilitate participants to further pursue other routes of professional developments. Mr. Aaron Lui, Project Officer of EPD, and Dr. Calvin Chiu, Senior Manager of Ramboll HK Ltd. Were the speakers The course was well received and there were fruitful discussions among the participants.

A detailed review had been conducted and a major restructuring of the certificate courses had been proposed and as a result, the courses originally scheduled in the second half of 2019 were postponed. The details of the certificate courses would be announced in due course.



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6 Activities

The Institute organized various 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 The Environmental Management Association of Hong Kong (EMAHK), The Hong Kong Institute of Environmental Impact Assessment (HKIEIA), the Hong Kong Institute of Qualified Environmental Professionals (HKIQEP), The Chartered Institution of Water and Environmental Management (CIWEM), The Hong Kong Institute of Environmental Protection Officers (HKIEPO), ESEA Regional Chapter of the Acoustical Society of America (ESEA-ASA), The Hong Kong Polytechnic University (HKPolyU), and Environmental Protection Department (EPD) etc., for their continuous support to many of our activities. The table below is a brief summary and highlights of some of the events during the 2019/2020:

Date	Activities
25-3-2019	Career Sharing with Student Branches
20-5-2019	“Joint-institute Bowling Night” in association with five environmental professional institutes (EMAHK, HKIEIA, HKIQEP, CIWEMHK and HKIEPO)
1-6-2019	Hong Kong Soundscape – A Sound Map Creation Competition – Launching cum Awards Presentation Ceremony
6 & 20-7-2019	Training on Essentials of Environmental Noise
8-6-2019	Technical Visit to Xiqu Centre
25-6-2019	Technical Seminar on “Innovative Noise Mitigation Designs and 4D Virtual Reality System”
15 to 17-8-2019	The 12th Cross-strait Acoustics Technical Conference cum Summit Conference of Acoustical Society of China-Environmental Acoustics (第十二屆海峽兩岸聲學學術交流研討會議)
16-10-2019	Technical Seminar on “Innovative Vibration Isolation Design for Building Elements in Europe and US”
23 & 25-10-2019	International Noise Seminar on Innovative Acoustic Windows
8-12-2019	Annual Marathon for Benji's Centre (庭恩兒童中心) Centre
31-1-2020	International Student Competition of the International Year of Sound 2020

6.1 “Joint-institute Bowling Night” in association with five environmental professional institutes (EMAHK, HKIEIA, HKIQEP, CIWEMHK and HKIEPO)

On 20 May 2019, HKIOA has held a “Joint-institute Bowling Night” in association with five professional institutes (EMAHK, HKIEIA, HKIQEP, CIWEMHK and HKIEPO) at the Royal Hong Kong Yacht Club. The event attracted more than 50 participants from various disciplines, and aimed to have an opportunity for social gathering and build a stronger relationship among various friendly institutes. The atmosphere was full of joy and member of HKIOA also won in the individual competitions.



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6.2 Hong Kong Soundscape – A Sound Map Creation Competition

The Hong Kong Soundscape –A Sound Map Creation Competition was concluded successfully at the Launching cum Award Presentation Ceremony held on 1 June 2019. Mr. WONG Kam-sing, GBS, JP, Secretary for the Environment, attended the Ceremony as an officiating guest, along with over 70 prestigious guests, awardees, members and friends from different fields. The Competition aimed to raise public awareness of local soundscape and to promote the idea of treating sound as resources and the importance of ambient sound environment. With concerted efforts from entrants to record local sound marks, over 160 sound clips featuring three main themes, namely Urban City, Nature Scenery and Cultural Landscape, were collected from the general public, creating the first Hong Kong sound map in collaboration with local citizens. 21 awards were presented to the winners. As for each theme, the “Outstanding Sound Clip Award” and the “Unique Sound Clip Award” were selected by the judging panel formed by experts, representatives from government departments and professional bodies, whereas the “Most Liked Sound Clip Award” was selected by citizens through online voting. The sound map created through the Competition will be used for preservation of sound marks from community and local cultural activities as well as for public education, tourism promotion and promotion of nature conservation.

6.3 Technical Visit to Xiqu Centre

HKIOA arranged a technical visit on 8 June 2019 to the recently commissioned Xiqu Centre located on the eastern edge of the West Kowloon Cultural District (WKCD). A total of 35 participants joined this visit. In two hours of guided tour, Mr. Paul Henning, Head of Technical Development of WKCD Authority, introduced to participants the design concept of various performance venues inside Xiqu Centre including the Grand Theatre, Tea House, studios, etc. Technical aspects of the acoustic design, including indoor acoustic requirement, materials selection, installation details and opinions were actively shared among the participants in the visit.

6.4 Technical Seminar on Innovative Noise Mitigation Designs and 4D Virtual Reality System

The “Innovative Noise Mitigation Designs (INMD) of Buildings and 4D Virtual Reality (VR) System” technical seminar jointly organized by EPD, HKPolyU and HKIOA was held on 25 June 2019. The honourable speaker Ir Elvis AU, Deputy Director of Environmental Protection Department shared with the audience the experiences of the latest development of innovative noise mitigation designs, such as acoustic windows and balconies, for public and private residential building, in tackling traffic or railway noise transmitted from outdoor to indoor while maintaining the required natural



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air ventilation for the premises. Such designs had become increasingly popular for the local housing developments, and Hong Kong had become a fore-runner in the world in these applications. Participants also had a chance to try out the 4D VR devices in order to have personal experiences of the visual and audio effects of acoustic windows and balconies. We were proud to have over 240 participants in this event including professionals from the government and the industry, architects, surveyors, planners, developers, building engineers and environmental consultants.

6.5 The 12th Cross-strait Acoustics Technical Conference cum Summit Conference of Acoustical Society of China-Environmental Acoustics (第十二屆海峽兩岸聲學學術交流研討會議)

The 12th Cross-strait Acoustics Technical Conference cum Summit Conference of Acoustical Society of China-Environmental Acoustics, which was jointly organized by Shanghai Acoustical Society, Acoustical Society of China-Environmental Acoustics Branch, Shanxi Acoustical Society, was held at Xian, PRC on 15-17 August 2019. Apart from delegates mainland China, Taipei, Macau, and Hong Kong, representatives from the HKIOA also participated in the event.

6.6 The technical seminar on “Innovative Vibration Isolation Design for Building Elements in Europe and US”

The technical seminar on “Innovative Vibration Isolation Design for Building Elements in Europe and US” was held on 16 October 2019 in the Hong Kong Polytechnic University, and some 50 participants attended the seminar. The honorary speaker, Mr. Patrick Carels, the Executive Chairman of the CDM group, actively shared his experience in vibration isolation design on various special building elements within building such as gym facilities, helipad and swimming pool, with the participants. The frozen bearing technology, which serves as a way of pre-compression, was also shown to the audience.

6.7 International Noise Seminar on Innovative Acoustic Windows

The International Noise Seminar on Innovative Acoustic Windows, organized by East and South-East Asia (ESEA) Regional Chapter of the Acoustical Society of America and co-organized by the HKIOA, was held in Hong Kong and in Shanghai respectively on 23rd and 25th October 2019. They both have a total of 7 presentations. Ir Elvis Au, the Deputy Director of Environmental Protection Department, set the scene for the seminar by giving us an outline on why and how Environmental Protection Department developed this novel design and how significant was this design to Hong Kong in the context of developing new residential buildings. Then, a case study was presented by Mr. David Yeung (Ramboll Hong Kong), Mr. Kelvin Ip (Ronald Lu & Partners (HK) Ltd) and Mr. Andy Chung (Macau Institute of Acoustics) in sharing with delegates the noise assessment process, the design process and the actual results at the end through Virtual Reality technology. Mr. KK Lu (Supreme Acoustics Research Ltd) gave an innovative idea on effective



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evaluation of the noise reduction achieved by the acoustic windows through measurements following ISO standard. Mr. Lars Sommer Sondergaard (Force Technology of Denmark) shared the trendy designs of ventilated windows in Denmark; and Dr. Du (National University of Singapore) shared the experience on how the design configurations would affect the noise reduction effectiveness of ventilated windows. Prof. Zhou Yide and Dr. Xiaonan Wang, both from Shanghai Academy of Environmental Science, shared with the delegates the research and development and actual situation in Shanghai.

7 Publications

7.1 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.

7.2 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 would 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 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 2019-20, 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



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acoustics related local suppliers/contractors/consultants (subscriptions are required) have also been posted for the information of the public.

9 External Liaison

In 2019/20, 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;

Occupational Health Award 2019 of Occupational Safety & Health Council (OSHC) – Mr. Ken WONG was our presentative to join the judging panel of the award.

Green Building Competition for Schools 2019 of Hong Kong Green Building Council (HKGBC) – Mr. Henry CHAN was our representative to join the judging panel of the competition.

Moreover, during the year, we had worked together with International Commission for Acoustics (ICA), Hong Kong Construction Association (HKCA), HKIE-MMNC, HKIQEP, HKPolyU, HKBEC, and EPD, in organizing seminars, courses and events. 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.

10 The Way Forward

In 2020, HKIOA will continue strengthen our position as the only learned acoustical society originated 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 continue to promote and strengthen the good practices in the acoustics profession in Hong Kong.

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

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 the aforesaid activities.



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

Dr. C. W. Law

Chairman