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Hong Kong Institute of Acoustics

Chairman's Report 2020/2021

1. Introduction

It is my great honour to be elected and serve as the Chairman of HKIOA for the past year. I wished to express my most sincere gratitude to all past Chairmen for their contribution and leadership. I must also thank the Executive Committee for their dedicated support and continued hard work to the Institute.

2020 has been a challenging year for Hong Kong due to the widespread impact of the COVID-19. Despite the pandemic, we still have achieved a lot and have continued to facilitate professional developments among members through various activities like technical seminars, educational training and international collaboration.

This year, we will continue to collaborate closely with other Professional Institutions to enhance the standing of HKIOA and plan to build up closer links to the community through networking with local Government Authorities, Universities, and other professional bodies. I treasure the support and contributions from Members of HKIOA, which will encourage me to lead HKIOA to scale new heights.

Last but not least, I would like to express my sincere gratitude to all of you, your dedication and unfailing support during this difficult time. With your active participation, I am confident our upcoming events will continue to create values for the industry.

2. Executive Committee of the Institute

The Executive Committee generally met 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 2020/2021 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.



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2.1. Committee Members (Session 2020 – 2021)

Chairman	Mr. William FUNG
Hon Secretary	Mr. Aaron LUI
Hon Treasurer	Dr. Calvin CHIU
Chairman, Membership SC	Mr. Chris KWOK Mr. Joshua CHUNG (Co-Opt)
Chairman, IT SC	Mr. Aaron LUI Mr. James CHOI
Chairman, Indoor Acoustic SC	Mr. Henry CHAN Mr. Wai Him TANG
Chairman, External Affairs SC	Mr. Chris KWOK Dr. Cindy CHEUNG (Co-Opt) Ms. Claudine LEE (Co-Opt)
Chairman, Environmental Noise SC	Mr. Alson PANG Dr. KW CHENG (Co-Opt)
Co-Chairman, Noise & Vibration SC	Ir Wilson HO Dr. Randolph LEUNG
Co-Chairman, Professional Development & Education SC	Dr. Clief TANG Mr. Ken WONG Prof. SK TANG Dr. Randolph LEUNG
Co-Chairman, Construction Noise SC	Mr. Ken WONG Ir Wilson HO
Chairladies, Women in Acoustics SC	Ms. Claudine LEE (Co-Opt) Dr. Cindy CHEUNG (Co-Opt)
Chairman, Publication SC	Mr. James CHOI Dr. Cindy CHEUNG (Co-Opt)

2.2. Others:

Immediate Past Chairman	Dr. CW LAW
Hon Adviser (Institution Advancement & Discipline)	Prof. K. C. LAM Ir KK IU
Membership	Mr. CL WONG
Administrator (Part-time)	Dr. Horus CHAN



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3. Finance

The Institute remained in a healthy financial position for the year ended 31 December 2020. 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 2020/2021, 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-February, 2 numbers of applicants were elected as Corporate Members, 5 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 Feb 2021 are given as follows:

Grade	21/2/13	21/2/14	12/3/15	19/2/16	28/2/17	15/3/18	1/3/19	30/4/20	2/21
Hon. Fellow	4	4	4	4	4	4	4	4	4
Fellows	21	21	21	21	18	19	21	21	21
Members	205	210	231	242	235	250	260	275	277
Associate Members	74	80	86	93	76	73	82	86	91
Students	119	120	120	120	226	226	371	341	341
Total	423	435	462	480	559	572	738	727	734



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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.

The current student branch chairman, Mr. Gary YUEN from PolyU, Ms. Sirius WONG 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 launched a certificate training workshop in June and July 2020 providing the local practitioners with a structured training including the essential concepts of acoustics, road traffic noise, noise prediction model, control and management. The event was supported by HKIQEP, EMAHK, and Hong Kong Institute of Environmental Impact Assessment. We were glad to have Mr. CL WONG, the Project Engineer (Noise) from Environmental Protection Department of HKSAR, and Dr. Calvin CHIU, the Senior Manager from Ramboll Hong Kong Ltd as our speakers. The training has covered the various aspects of essential knowledge of environmental noise.

We were delighted to have 47 participants joining the training workshop. The training workshop covered the essential knowledge of environmental noise and the noise syllabus of the HKIQEP Qualification Examination. The training would help the participants in the preparation of their examination. The training in Year 2020 was held on 27th June and 4th July in the form of a webinar. The webinar allowed participants to interact with speakers in leaving questions regarding training and discussions on related queries. Despite the COVID-19 pandemic situation in Hong Kong, we have received overwhelming response from 47 participants.

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 2020/2021:



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Date	Activities
23-7-2020	Webinar: A Study on Construction Noise Control and Hong Kong - Feasibility Study
13-8-2020	Seminar on Innovative Noise Mitigation Designs - Acoustic Windows & 4D Virtual Reality (VR) Technologies
21-8-2020	Technical Seminar on Advance in Trailer Acoustic Design for Close-Proximity (CPX) Tyre /Road Noise Measurement in Highly Urbanised Cities
11-9-2020	Technical Webinar on Acoustics of Multi-Use Performing Arts Centers and Theatres
29-10-2020	A Review of 4 Decades of Architectural Acoustics Research, Development and Application
27-11-2020	Technical Webinar: Online Environmental Assessment – the Past Decade, Cases and its Field-ture
25-03-2021	GreenPro Training Scheme (GPTS) Seminar

6.1. WEBINAR: A STUDY ON CONSTRUCTION NOISE CONTROL AND HONG KONG - FEASIBILITY STUDY

HKIOA was delighted to have EPD and their consultants to present their findings in this webinar on 23rd July 2020, which included the outcome of a public survey for more than 5000 households in Hong Kong and a review of construction noise control practices in 12 metropolitan cities. The speakers also shared with the audience eight types of quiet construction technologies. The participants were interested in the findings, and the session concluded with a lively discussion. We were glad to have Mr. Richard KWAN, Mr. Morgan CHENG & Mr. Dragon TSUI from Wilson Acoustics Limited, and Mr. Samson CHENG and Mr. CL WONG from the EPD as our speakers. The event was well received with 258 participants joined the webinar, including over 60 members from HKIOA.

6.2. SEMINAR ON INNOVATIVE NOISE MITIGATION DESIGNS - ACOUSTIC WINDOWS & 4D VIRTUAL REALITY (VR) TECHNOLOGIES

Concerning the impact of traffic noise affecting the general public, HKIOA had co-organised a seminar on 13th August 2020 with HKIQEP for our members to comprehend the innovative solutions to the addressed problem. Because of the COVID-19, the seminar was conducted via ZOOM. We were happy to be the Supporting Organizations of the event and our members joined the seminar that could facilitate their experience of noise reduction effectiveness of acoustic



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windows with a 4D VR demonstration with incredible visual and audio effects. The event was well received and there was a total of around 140 participants in the seminar.

6.3. TECHNICAL SEMINAR ON ADVANCE IN TRAILER ACOUSTIC DESIGN FOR CLOSE-PROXIMITY (CPX) TYRE/ROAD NOISE MEASUREMENT IN HIGHLY URBANISED CITIES

On 21st August 2020, a technical seminar on CPX tyre /road noise measurement was jointly organized by HKIOA and the Department of Mechanical Engineering of the Hong Kong Polytechnic University and supported by the ASME (Hong Kong Section) and the HKIE-MMNC. Mr. Dong Fang LI and Dr. Randolph Chi Kin LEUNG from the Department of Mechanical Engineering of The Hong Kong Polytechnic University, the leading academics of road tyre noise research in Hong Kong, were our speakers. They reported the project done by the advanced method utilizing three-dimensional finite element method simulation for the design in CPX (ISO/CD 11819-2) trailer. The event was well received and there were some 250 participants joined the event.

6.4. TECHNICAL WEBINAR ON ACOUSTICS OF MULTI-USE PERFORMING ARTS CENTERS AND THEATRES

Keeping up the with the increasing trend for multi-use performance venue, HKIOA was proud to present our members with a technical seminar by the Chairman of Jaffee Holden, Mr. Mark HOLDEN, on 11th September 2020. With over 40 years of experience in Auditorium design, Mr. Holden introduced the basic acoustic approach for Theatres and Performance Space design. He shared many of his practical project experience in the design of multi-use performance venues. The webinar benefited HKIOA members with the knowledge of the adjustable acoustic system applied in the multi-use performance spaces to different performance types without degradation in sound quality and participants. The event was well received and over 100 HKIOA members participated in the seminar via ZOOM.

6.5. A REVIEW OF 4 DECADES OF ARCHITECTURAL ACOUSTICS RESEARCH, DEVELOPMENT AND APPLICATION

The Technical Webinar was held on October 29, 2020 through ZOOM platform. There were 63 participants attended the Webinar. Dr. Peter D' ANTONIO, from REDI Acoustics shared his 40 years of research experience in diffraction and reflection design, as well as application. He showed various impressive test method to evaluate sound diffusion and scattering. Dr. D' Antonio also introduced software to optimize and positions for critical listening room, with illustrations



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showing the output. He also showed application examples and how the room response changed with proper sound diffusive and absorptive treatments. The webinar was well received by the participants.

6.6. TECHNICAL WEBINAR: ONLINE ENVIRONMENTAL ASSESSMENT – THE PAST DECADE, CASES AND ITS FIELD-TURE

On 27 November 2020 (Friday), HKIOA Environmental Noise Subcommittee organized a technical webinar on “Online Environmental Assessment – titled the Past Decade, Cases and its Field-ture” via Zoom. The talk presented a very useful, but different option for conducting Environmental Noise Assessments, as all the assessments could be easily conducted via a web-based application. Mr. Raymond WONG illustrated how online modelling, assessment and result evaluation was applied in some selected cases. Some potential field applications were also discussed in the webinar. The webinar was well received by 51 participants.

6.7. GREENPRO TRAINING SCHEME (GPTS) SEMINAR

Dr CW LAW, as a representative of HKIOA, has presented in the Seminar of GreenPro Training Programme (GPTP) under the Graduates Subsidy Programme (GSP) in the evening on 25 March 2021 to introduce the noise management in Hong Kong, which was organized by Environment Bureau and Environmental Protection Department of the HKSAR Government. The seminar ran smoothly and successfully with about 100 young graduates in HK. The feedback from them was encouraging. All of the responses from the questionnaire expressed their highest rating in satisfaction towards the seminar and the graduates responded that the training was useful and relevant in planning their future career development. The major key takeaways of the graduates are the sharing on noise planning, noise mitigation measures, construction noise, and CNP application, which were also reflected in the very interactive Q&A session during the evening.

7. Publications

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.



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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 2020-21, 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.

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.

9. External Liaison

In 2020/21, 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 2020 of Occupational Safety & Health Council (OSHC) – Mr. Ken WONG was our representative 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.



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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

As challenging as the pandemic of COVID-19, we are redoubling our efforts to strengthen our position as the only learned acoustical society originated in Hong Kong SAR. The Institute will continue to organize or co-organize technical seminars and talks with various professional institutions from time to time. While there are constraints in organizing face to face meeting due to the need for implementing social distancing measures, the use of on-line meeting system has become prevalent for seminar or talks and it does open ample opportunities for us to invite overseas speakers to share their precious knowledge and experience with us through webinars. The talks we organized with Mr. Mark Holden and Dr. Peter D'Antonio from USA were the good examples.

Furthermore, being one of the institutional partners of HKIQEP, we will continue to strengthen our partnership and encourage our members to join HKIQEP, uphold our mission to promote the knowledge and maintain the integrity of the acoustic profession. I will continue to report and update our participation in stakeholder engagement meetings organized by the government and other professional bodies.

I would like to express my sincere gratitude to all executive committee members, friends of the institute and organizing committee members who have been involved in the various HKIOA activities. Last but not the least, I look forward to have your continuous support, and working with all of you in the near future. With your support and the great efforts of our committee members, the institute will continue to grow and we should have another fruitful and successful session in 2021/2022.

Mr William Fung

Chairman