Sounding Board

December 2024 Issue

AGM & Dinner 2024

Reported by Cindy Cheung

The Annual General Meeting (AGM) was held on 23 May 2024 at Regal Kowloon Hotel. The AGM was started at 7pm.

The Chairman Dr Calvin Chiu presented the Annual Report of Session 2023 – 2024 and highlighted the wide variety of activities in relation to the 30th Anniversary of the Institute, including regional conferences, an overseas delegation visit, technical site visits, seminars, webinars, professional certificate course, social gathering, Acoustics Awards 2023 and the 30th Anniversary Gala Dinner. In closing, Calvin thanked all executive committee members, honorary advisors, past chairpersons, friends of the Institute, and members of various organizing committee who were involved in the various activities. The Honorary Treasurer Mr Henry Chan reported the financial review for the past year that HKIOA remained in a healthy financial position.

AGM & Dinner 2024 (Cont'd)

As the Chairman Dr Calvin Chiu had completed a two-year term of office from 2022 to 2024 and decided not to seek for re-election for a second term, an election for a new Chairman took place that Mr Henry Chan was elected to be the new Chairman of the Institute for the two-year term of office from 2024 to 2026.

As for composition of the Executive Committee, Dr Jeffrey Tam was newly elected, and Ms Claudine Lee, Mr Joe Leung and Dr Randolph Leung were re-elected as Committee Members.

The dinner reception following the AGM was attended by more than 120 members and guests, and started at around 8:40pm after a welcoming speech given by the new Chairman Mr Henry Chan. After the enjoyment of food and wines by the attendees, the dinner was concluded at around 10:30pm with laughter and chat.

AGM & Dinner 2024 (Cont'd)

HKIOA Committee Members

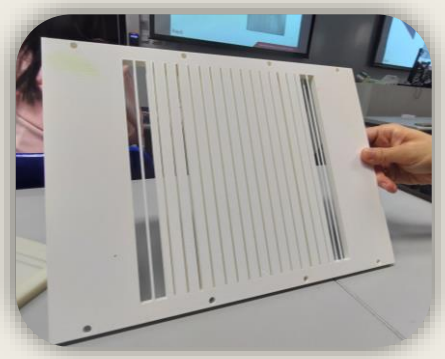
Executive Committee (Session 2024 – 2025)	
Chairman	Mr Henry Chan
Hon Secretary	Mr Aaron Lui
Hon Treasurer	Mr Chris Kwok
Chairman, Membership SC	Mr Ken Wong
Chairman, Professional Development & Education SC	Mr Franki Chiu
Chairman, Noise & Vibration SC	Dr Randolph Leung
Chairman, Environmental Noise SC	Mr Alson Pang
Chairman, Construction Noise SC	Mr Joe Leung
Chairman, Electroacoustics SC	Mr Wai Him Tang
Chairman, Building Acoustics SC	Dr Jeffrey Tam
Chairman, IT SC	Mr James Choi
Chairlady, Publication SC	Dr Cindy Cheung
Chairlady, Women in Acoustics SC	Ms Claudine Lee

Others	
Immediate Past Chairman	Dr Calvin Chiu
Hon Adviser	Prof. K. C. Lam Ir K. K. Iu
Co-opted Members	Mr Edward Chan Mr Jackel Law Dr Mors Leung Mr Nick Shum
Chairman, Student Branch	
– HK PolyU – Shatin IVE	Dr Gary Yuen Ms Artemis Yuen
Administrator	Dr Horus Chan

Joint HKIOA-AIB Technical Seminar on “Noise Reduction Enabling Natural Ventilation Technologies”

Reported by Jeffrey Tam

On 2 August 2024, Hong Kong Metropolitan University hosted an engaging seminar titled “Noise Reduction Enabling Natural Ventilation Technologies”, featuring the esteemed Dr. Liangfen Du from Hong Kong Polytechnic University. In collaboration with the Australian Institute of Building (AIB), the event attracted over 50 participants to explore innovative solutions at the intersection of noise reduction and natural ventilation.



Joint HKIOA-AIB Technical Seminar on “Noise Reduction Enabling Natural Ventilation Technologies“ (Cont’d)

During the seminar, Dr. Du shared insights on advanced technologies, including acoustic-friendly ventilation windows, ventilated acoustic meta-barriers, and ultracompact double-layered acoustic gratings. Through a detailed exploration of the principles, designs, and performance metrics of these advancements, along with insightful case studies, attendees gained a deeper understanding of how these solutions can be effectively integrated to optimise both ventilation and acoustic quality in various settings.

The seminar provided a valuable platform for participants to learn about the practical applications of these technologies, inspiring further exploration and implementation in building design and environmental comfort.

Technical Seminar on “Novel Technology for Quantification of Tyre/Road Noise for Urban Noise Management”

Reported by Jeffrey Tam

The seminar titled "Novel Technology for Quantification of Tyre/Road Noise for Urban Noise Management" took place on 18 August 2024, at Hong Kong Polytechnic University.

Ir Dr. Randolph C. K. Leung from the Department of Mechanical Engineering delivered a presentation on measuring tyre/road noise in accordance with the ISO/CD 11819-2 (2017) standards. He discussed the development of these standards and shared findings from noise measurements conducted on roads in Hong Kong, emphasising the potential for managing urban noise through the assessment of tyre/road noise power levels.

Technical Seminar on “ Novel Technology for Quantification of Tyre/Road Noise for Urban Noise Management“ (Cont’d)

Dr. Leung also demonstrated PolyU's measurement setup, highlighting the practical applications of advanced technology in noise quantification and management. The seminar, co-organised with the Department of Mechanical Engineering, attracted over 40 participants who gained valuable insights into innovative solutions for addressing urban noise pollution.

Technical Visit to HKUST Shaw Auditorium

Reported by Jeffrey Tam

On 24 August 2024, a technical visit was organised to provide participants an opportunity to explore the Shaw Auditorium at the Hong Kong University of Science and Technology (HKUST). The event offered an in-depth look at the design and operational considerations of this state-of-the-art facility. Mr. Sam Tsen, Senior Manager of Development at HKUST, started with a briefing on the auditorium's functions and day-to-day operations. He was followed by Mr. Ivan Chan, Technical Director of Building Mechanical, Electrical & Plumbing Engineering Services at WSP, who discussed the various mechanical noise challenges faced during the auditorium's design phase. Additionally, Mr. K. K. Kwok, Senior Consultant at Marshall Day Acoustics, explained the acoustic design concepts that were integrated into the space.

Technical Visit to HKUST Shaw Auditorium (Cont'd)

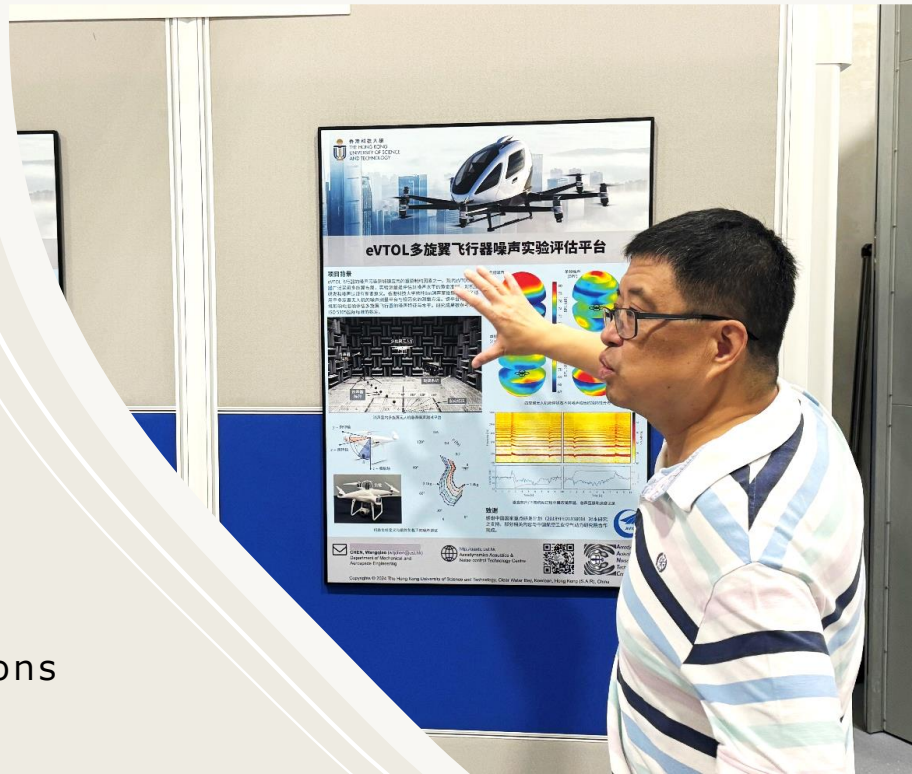
With over 30 participants in attendance, the event also featured a video presentation that showcased the auditorium's impressive sound and visual capabilities. The visit concluded with a guided tour of key noise-sensitive areas, such as the backstage and catwalk, giving participants a first-hand look at the systems used to manage acoustics and mechanical noise. The visit offered a comprehensive understanding of the technical details and complexities involved in creating an auditorium that balances both functionality and acoustic performance.

Technical Visit to Aerodynamics and Acoustics Facility (AAF), HKUST

Reported by Alson Pang

On the morning of 5 October 2024, a technical visit to the Aerodynamics and Acoustics Facility (AAF) at the Hong Kong University of Science and Technology (HKUST) took place under fine weather conditions. Professor ZHANG Xin and his research team provided an insightful introduction to the state-of-the-art facilities. Owing to the limited visit capacity, HKIOA could only accepted 32 members from the HKIOA to participate in the visit.

The participants were particularly captivated by the noise control designs for drones, which play a crucial role in supporting the low-altitude economy growth in China and Hong Kong. Additionally, Professor Zhang elaborated on the contributions of their low-speed wind tunnel to sports science research. This facility aids in enhancing the performance of athletes in national-level competitions by providing critical data and insights into aerodynamics. The integration of such advanced technology in sports science underscores the interdisciplinary applications of the AAF's research capabilities.



Technical Visit to Aerodynamics and Acoustics Facility (AAF), HKUST (Cont'd)

The visit also included a tour of the large, advanced, and well-equipped reverberation and anechoic rooms. These facilities are essential for conducting various acoustic tests, including sound power, sound absorption, and sound insulation assessments. The participants were impressed by the capabilities of these rooms, which support both university research and specialized services for industry collaborators. Furthermore, the participants visited the high-speed wind tunnel at the Aerodynamics Acoustic and Noise Control Technology Centre. This facility is crucial for testing product performance under high-speed wind conditions, providing valuable data for various applications.

Overall, the visit underscored the AAF's pivotal role in advancing both industrial and academic research, fostering innovation in noise control and aerodynamics, and supporting the broader scientific community. The engagement and enthusiasm of the participants reflected the importance and impact of such cutting-edge research facilities.

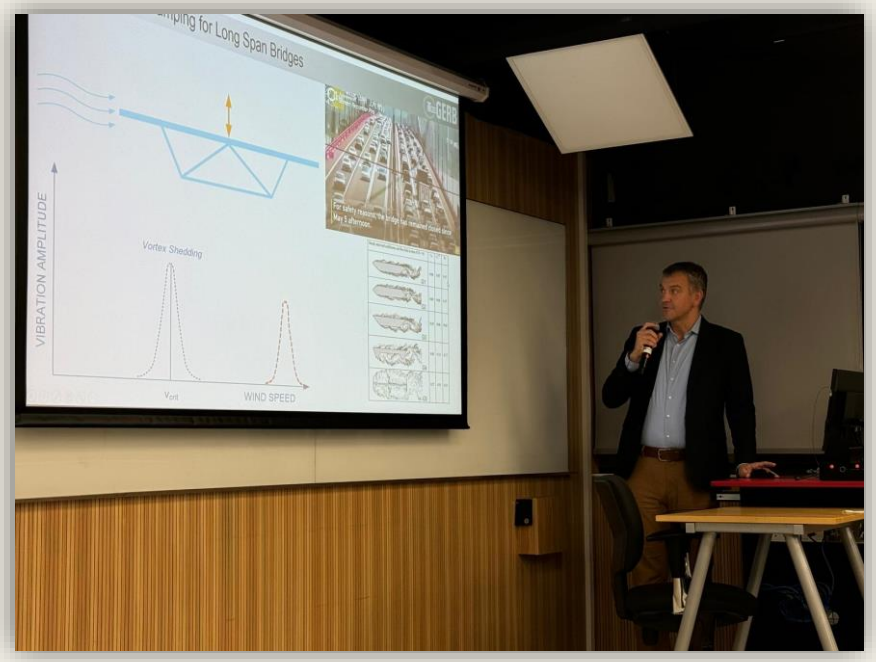
Technical Visit to Aerodynamics and Acoustics Facility (AAF), HKUST (Cont'd)

Technical Seminar on “Innovative Strategies to increase Damping in Tall Buildings and Bridges: Tuned Mass Dampers and Vibration Isolation Technology for buildings along the subway”

Reported by Jeffrey Tam

The Department of Mechanical Engineering at Hong Kong Polytechnic University hosted a seminar on 18 October 2024, focused on advanced damping technologies for tall buildings and bridges. The event attracted over 40 participants, including engineers, researchers, and students who were eager to learn about cutting-edge methods for improving structural stability.

Dr. Christian Meinhardt, representing GERB from Germany, presented the theory and application of Tuned Mass Dampers (TMDs). His presentation detailed how TMDs are utilised in high-rise buildings and bridges to reduce vibrations caused by external forces such as wind and seismic activity. He provided real-world examples of TMD installations and emphasised the significance of these systems in enhancing both the safety and comfort of modern structures.



Technical Seminar on “Innovative Strategies to increase Damping in Tall Buildings and Bridges: Tuned Mass Dampers and Vibration Isolation Technology for buildings along the subway” (Cont’d)

The second speaker, 罗勇, discussed vibration isolation technology for buildings constructed above high-speed railways in Mainland China and Hong Kong. His presentation addressed the engineering challenges posed by vibrations from railways and the innovative solutions implemented to mitigate their impact on nearby structures, ensuring stability and comfort for occupants.

Overall, the seminar provided important information and perspectives on these innovative strategies, highlighting the importance of vibration control in urban and infrastructure development.

HKIOA Professional Certificate on Acoustics, Noise and Vibration Control

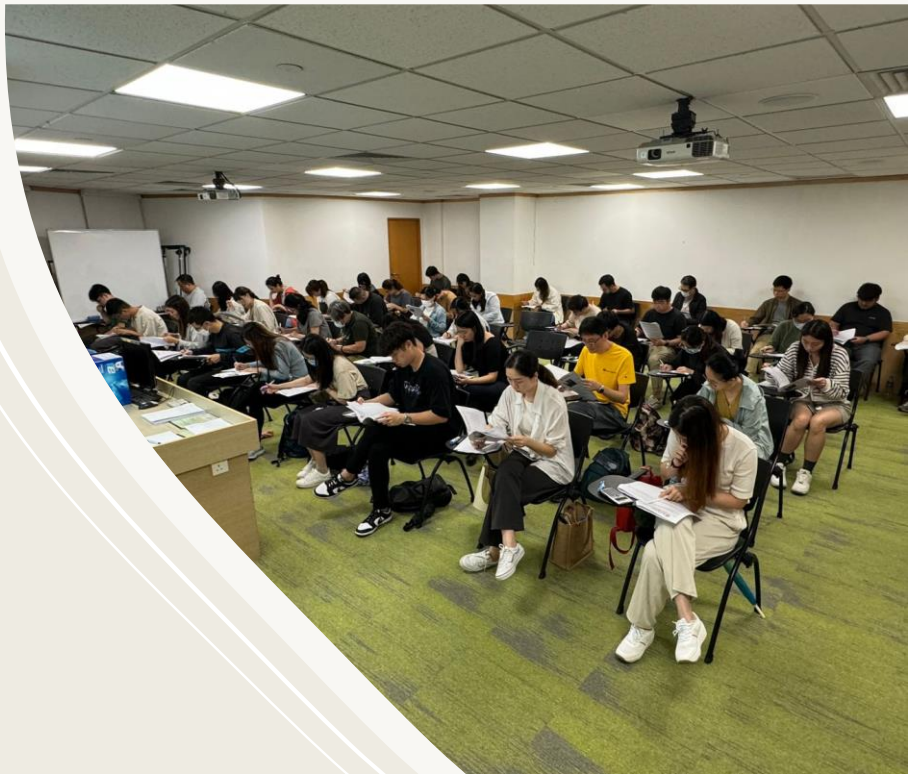
Reported by Mors Leung

HKIOA proudly organised a certificate course on wide range of topics in acoustics, supported by Chartered Institution of Water and Environmental Management Hong Kong Branch (CIWEM-HK), The Environmental Management Association of Hong Kong (EMAHK), Hong Kong Institute of Environmental Assessment (HKIEIA), Hong Kong Institute of Environmental Protection Officers (HKIEPO) and Hong Kong Institute of Qualified Environmental Professionals (HKIQEP). The course was held from 23 September to 14 November 2024, a total of 18 lecture sessions and 2 assessments were conducted, combing a total 40 hours of training.

HKIOA Professional Certificate on Acoustics, Noise and Vibration Control (Cont'd)

This year we are pleased to have many experienced and enthusiastic acoustics professional to be our speakers, including Dr. Louisa Cheung, Dr. Mors Leung, Ms. Jamie Lai, Ms. Karen Leong, Mr. Ken Lam, Dr. Elvis Lau, Mr. Benson Lee, Mr. CL Wong, Mr. Ivan Ho and Dr. CK Chau. They are from different sectors in the industry, including consultants, Contractors, Academia and government department, the full spectrum of speaker's background made the course more fruitful.

A total of 54 enrolments were recorded this year, and we received very positive feedback from participants. In particular, they found the course is practical, also enhanced and refreshed their knowledge inside and outside from their working field. We look forward to giving an even better course in 2025.



Final Call for Joint HKIEIA-HKIOA Christmas Party 2024

This year's Christmas Party will be jointly organized with HKIEIA on 19 Dec 2024 (Thu) at N.O.T. Specialty Coffee, Hysan Place, Causeway Bay. Please join and have a joyful evening with us!

Registration Link (RSVP by 13 Dec):
https://form.jotform.com/243318151776459