



Hong Kong Institute of Acoustics

# SOUNDING BOARD

## JULY 2015 ISSUE

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# Executive Committee Members of HKIOA in 2015 - 2016

Chairlady	Ms Grace Kwok
Immediate Past Chairman	Dr Kin Cheng
Hon Secretary	Ir Maurice Yeung
Hon Treasurer	Mr Tom Ho
Chairman (Membership SC)	Dr CK Chau
Chairman (Publication SC)	Dr CW Law
Chairman (Indoor Acoustics SC)	Mr William Fung
Chairman (Activities SC)	Mr Wilson Ho
Co-Chairman (Professional, Development & Education SC)	Dr Clief Tang Dr Randolph Leung Mr YN Au Yeung
Chairman (Environmental Noise SC)	Ir CK Lee (Cop.M.)
Chairman (IT SC)	Mr Aaron Lui
Co-Chairman (Noise & Vibration SC)	Mr Wilson Ho Dr Randolph Leung
Co-Chairman (Construction Noise SC)	Mr MK Cheung
Co-Chairlady (Women in Acoustics)	Dr Tracy Choi (Cop.M.) Ms Mable Chan (Cop.M.)
Hon Adviser	Ir KK lu

# HKIOA 2015 AGM held on 12th March 2015

By C.W. Law

The HKIOA 2015 AGM was held on 12 March 2015 at Regal Hong Kong Hotel. About 80 members, Executive Committee members, together with 10 guests from other local professional institutes and organizations attended the AGM and joined the Annual Dinner afterwards.

Following the declaration of opening at around 7:00 pm, our Chairlady, Ms. Grace Kwok presented the 2014-15 Annual Report to our members. In sum, the session 2014-15 was a fruitful year of the Institute. Members were able to continue to benefit from various activities organized by the Institute or jointly organized with other professional institutions including technical visits, seminars and social gathering etc. The size of our Institute was also steadily growing with new comers from local practitioners in the field of acoustics. Our financial status was also health with balanced revenue and expenditures.



Ir Maurice Yeung, Ms Grace Kwok and Mr Tom Ho



Chairlady Ms Grace Kwok presented the Annual Report to members

As for composition of our Executive Committee, Mr. M.K. Cheung, Mr. William Fung, Dr. Randolph Leung, Mr. Wilson Ho and Dr. Clief Tang were re-elected as Committee members.

Taking the opportunity, Ms. Grace Kwok also briefed members the progress of organizing the INTERNOISE 2017, to be held tentatively on 27-30 August 2017 at the Hong Kong Convention and Exhibition Centre. The conference would be jointly organized with Hong Kong Polytechnic University and would be one of the greatest acoustical conferences in the world in 2017. Grace had touched on the issues on HKIQEP, classroom acoustics and soundscape. She expressed that there would still be a lot of challenges ahead for the Institute. In closing, Grace thanked members for their continual support of the Institute.



New Chairman of our Student Branch (PolyU) for the new term (2015)



Ms Alice Wong of Soundpocket shared the interesting experience of sound

Following the closing at around 8:00pm, Alice Wong of Soundpocket gave the attendees an inspiring sharing, which included the establishment and development of Soundpocket, and shared the interesting experience of feeling sound.

The event was completed at around 11:00 pm after enjoying the Annual Dinner and wines by the attendees. Looking ahead, the HKIOA would continue its effort in organizing different kinds of functions aiming at benefiting our members while at the same time striving to uphold members' professional quality and conduct.



Guests of AGM and Annual Dinner



Some members of the Executive Committee

# **Bowling Competition 2015**

## **Organized by**

### **HKIOA PolyU Student Branch**

### **HKIOA IVE Student Branch**

Dr. Randolph C. K. Leung (Student Branch Advisor)  
Horus Y. H. Chan (Student Branch Chairman)



Apart from the technical and career activities, we, the Student Branches of HKIOA, also organize social event to build and maintain a close connection between professionals and students. A bowling competition was successfully held on the 26th April, 2015 at U.S. Dacos Tsuen Wan, with the support from HKIOA ex-com members.

Members of HKIOA, HKIOA PolyU Student Branch and HKIOA IVE Student Branch were invited to participate. Players were shuffled in the three matches such that every students would have direct face to face exposure to every professionals and create an exciting and joyful atmosphere. Under this environment, players could talk with each others freely. Professional players also shared their bowling skill and experience with students, which made the competition more exciting.



After three rounds of matches, the competition winners are as follow:

	Team	Individual
Champion	HKIOA	Edwin Chui
1 <sup>st</sup> runner-up	Polyu SB	Alex Tsui
2 <sup>nd</sup> runner-up	IVE SB	Raymond Man
3 <sup>rd</sup> runner-up	-	Tom Tang

According to the feedback from students, they are interested to join our upcoming events to understand more about the acoustic industry in Hong Kong and to maintain a friendly connection with professionals. Which it is a very valuable moment for students to have a close and casual interaction with elites.

Lastly, it is our honour to have a full support from all the HKIOA ex-com members and all the participants. The event would not be successful without your support. Look forward to seeing you in the future.

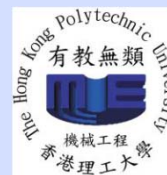




# **Seminar on Hard Rock Excavation Noise Control 11 Feb 2015**

**Organized by  
The Hong Kong Institute of Acoustics,  
The Institute of Materials, Minerals and Mining,  
Department of Mechanical Engineering of Hong Kong Polytechnic University**

**Supported by  
The Hong Kong Institute of Environmental Impact Assessment**



Speakers:

Lawrence Lee, M K Cheung, Alfa Liu, MTR Corporation Limited

Venue:

Room N001, The Hong Kong Polytechnic University, Hung Hom, Kowloon

By M . K. Cheung

The construction of South Island Line (East) is a designated project under the Environmental Impact Assessment Ordinance (EIAO) in Hong Kong. An Environmental Impact Assessment (EIA) tool has been developed for the project and was approved in 2010 during the design stage. An amendment of noise mitigation was further enhanced to suit and optimize their methodology in order to achieve a win-win-win situation for the Project Proponent, the Contractors and the Stakeholders.

The EIA defined two main activities for the South Horizons Plant Building works, namely “Slope Stabilization and Rock Slope Excavation”. The excavation work was presumed to last for over 2 years by mechanical means involving intensive breaking and drilling with hydraulic breakers and drilling rigs respectively which could potentially generate excessive noise impacts to the nearby high density of residents with nearest 30m away from the work site.



This seminar gave an overview of challenges on the amendment of the construction method and the EIA which included the technical aspects of blasting operation and noise impact from the proposed alternative construction methodology by using opencast blasting in comparison to the mechanical method presumed, where pros and cons were also examined.

The seminar was well attended with 60 participants from the government department, consultants, project proponents and contractors.



# The Philharmonie de Paris Acoustic Design

18 June 2015, 18:30 – 20:30

**Speaker: Dr. Thomas SCELO, Director – Marshall Day Acoustics - HK**



By William Fung

The seminar was jointly organized by the Hong Kong Institute of Acoustics and the Department of Mechanical Engineering of Hong Kong Polytechnic University.

The West Kowloon Cultural District will establish a new vibrant cultural quarter located on a dramatic harbour-front site in the heart of Hong Kong. It will be developed into one of the world's largest cultural quarters, blending art, education and public space. In this seminar, the speaker had delivered the technique and skill in acoustics for a highlighted project in France.

Dr. Thomas SCELO, director of Marshall Day Acoustics (HK), had introduced by HKIOA to giving a presentation regarding the project reference of the captioned venue. He introduced the conceptual design for the 2,400 seats Philharmonie de Paris to us. It aimed at balancing early and late acoustic energies by nesting an intimate audience chamber within a larger acoustic volume. The acoustic / architectural concept and its genesis was shared, in addition to the 3D acoustic simulation, challenged by the complexity of the design, modern principles and tools for parametric acoustic design were developed to assist with the acoustic design, which were extensively used to speed up the design and achieve a higher degree of collaboration with the architect. These new tools for acoustic design had been presented in particular how the critically acclaimed Loudness, Envelopment and Clarity were achieved. To balance the early and late energy, in a fixed architecture without variable geometry, coupling calculations were conducted to estimate the presence of a late reverberant field and ensure sufficient strength to the late reverberant response of the hall. These calculations had also been shared. Finally, a new in-house tool to measure 3D impulse responses and orchestra interactions were used to validate and commissioned the hall. Quoted comments from the international press around the time of its opening on 14 January 2015 had also been concluded.

The seminar was well received by over 60 people participants and sharing the photo of a splendid concert hall.