

15 April 2021

HKIE-Building Services Division

Chairman's Report (Session 2020 - 2021)



It was my great honour to take up the role as the Chairman of the HKIE-Building Services Division (HKIE-BSD) for the term of 2020 - 2021. Under the excellent leadership of my predecessors (i.e. Past Chairmen), it was a great challenge for me to build on their achievements and bring further success to the HKIE-BSD during my term of office.

HKIE-BSD encountered an unprecedented challenge under the spreading of COVID-19 pandemic over the World that is within my term of Chairmanship. In order to safeguard the health of stakeholders including our members, supporting organizations and the general public, the Committee of HKIE-BSD has no alternative, but to either suspend or on-hold our activities or shift the operating modes of activities from in-person to Webinar. With tremendous support given by the Committee Members, Observers, Helpers and various Professional Institutions and partners, HKIE-BSD successfully launched many webinar events in this term that were significantly contributed to Online Webinar as provided without the physical limitation in term of the availability of venue. In addition, expenses for running Webinar events were far less costly than running in-person ones.

In order to closely collaborate with other Professional Institutions, build the social standing of HKIE-BSD and be closer to the community, the Committee of HKIE-BSD has been building up effective networking and collaboration with local Government Authorities, Universities, Professional Institutions at local and international level as well as with Practicing Engineers in the engineering industry.

1. Continuing Professional Development (CPD) Activities

I kicked off CPD activities by setting up different WhatsApp Groups being led by three (3) Committee Members, Ir Chris Lo, Ir Sally Leung and Ir Felix Chan respectively. WhatsApp Groups including the key CPD Committee Members with HKIE-CVD, SSC, FRE & CAD, ASHRAE-HKC & CIBSE-HKB, IET-HK, BSOMES, CIPHE-HKB etc.. The CPD activities are being wrapped up as follows:

1. 與發展局局長交流 on 10 July 2020.
2. Technical Seminar on Energy Big Data Analytics with Artificial Intelligence on 29 Sept 2020
3. Technical Seminar on Combined Top-down and Bottom-up Approach in Facilitating Innovation Projects on 7 Oct 2020.
4. Joint Comprehensive Certificate Course on Healthy Plumbing & Drainage System for Livable City 2020 from 22 Oct 2020 to 1 Dec 2020.
5. Half-day Joint Symposium 2019/20 – Innovation for Smart Performance Buildings in Hong Kong & Greater Bay Area on 28 Oct 2020.
6. Joint Technical Seminar on Consideration of Building Services in BIM for Good on 5 Nov 2020.
7. Career Talk on “Attractive Prospect of Building Services Engineering through HKIE Schemes” on 30 Nov 2020 at THEi.
8. Technical Seminar on Ventilation and Building Air Disinfection Strategies against Aerosol and Airborne Transmissible Disease on 2 Dec 2020.
9. Technical Seminar on Swimming Pools Session 1 – Design & Installation for Swimming Pools on 15 Dec 2020.
10. Technical Seminar on Implementation of Food Waste Collection System for Catering Services on 29 Dec 2020.
11. Technical Seminar on The Key Differences between OHSAS28001 and ISO45001 on 7 Jan 2021.
12. Technical Seminar on Enhancement Measures to Reduce the Resubmission of Plumbing Proposal and Streamlining Measures for Simple Cases of Application for Water Supplies on 19 Jan 2021.
13. Technical Seminar on Twin Lift – How Safety Works in Two Independent Lift Cars Operating in One Shaft on 21 Jan 2021.
14. Technical Seminar on Testing and Commissioning of Tunnel System on 28 Jan 2021.
15. Technical Seminar on Virtual Visit to the Kai Tak Sport Park on 30 Jan 2021.
16. Technical Seminar on Innovative Design and Data Analysis on Mitigating COVID-19 Dispersion Risk in Residential Buildings on 3 Feb 2021.
17. Online Webinar on Young or Ready Series – A Route to become a Professional Building Services Engineer on 16 Feb 2021.
18. Online Webinar on Major Changes of the Code of Practice for the Electricity (Wiring) Regulations 2020 Edition and its Practical Implementation on 23 Feb 2021.
19. Joint Technical Seminar on Deploying Artificial intelligence into Action for Driving Energy Optimisation on 16 March 2021.
20. BS One Day Seminar 2021 on 26 March 2021.
21. Joint Technical Webinar on Introduction of Practical Guide for Design, Installation, Acceptance and Maintenance of Fire Services Installations and Equipment was scheduled to be held on 16 April 2021.
22. Water Conference 2021 was scheduled to be held on 27 April 2021
23. Joint Comprehensive Certificate Course on Electrical Systems in Buildings 2021 was scheduled to be held in Oct / Nov 2021.

2. Press Conference – Leaky Drain Busters

I took the role as Facilitator to set up and lead a Joint Taskforce Working Group including Committee Members of HKIE-BSD, CIBSE-HKR, CIPHE-HKB and BSOMES to express views on design, installation, operation and maintenance of building drainage system in residential buildings. HKIE President Ir Prof. P L Yuen accepted our invitation as Convenor and Ir Victor Cheung accepted as Hon. Adviser of the Taskforce Working Group. A kick off Zoom Meeting was conducted on 19 Dec 2020. Following the in-depth preparation of PowerPoint and logistic arrangement of Press Conference, a grand Press Conference was conducted at ZCP on 29 Dec 2020 in the presence of many local Press Media. Subsequent real-time broadcasting for the whole Press Conference was arranged by RTHK and several news publication of the Press Conference afterwards.

1. The HKIE-eNewsletter notifying all HKIE-BSD members for the Press Conference held at ZCP on 29 Dec 2020 was addressed to all HKIE-BSD Members. Joint Taskforce Working Group Members representing HKIE-BSD were Ir K F Yee, Ir Raymond Tam, Ir Keith Yue, Ir Prof. Jonathan Lee, Ir Jimmy Li and Ir Prof. Linda Xiao.
2. CIPHE-HKB representing Joint Taskforce Working Group to participate in the Now TV broadcast for media interview and site visit to the residential flats on 5 Jan 2021. An interview video was broadcast afterwards.
3. e-Poster was designed and disseminated to over 55 Institutions and Government officials in March 2021 and HKIE-BSD Members accordingly.

3. Oversubscribed Online Webinar

An overwhelming response from the industry with over 1,100 applicants participated in “**Online Webinar Technical Talk on Major Changes of the CoP for the Electricity (Wiring) Regulations 2020 Edition and its Practical Implementation**” on 23 Feb 2021 evening. An Engineer of EMSD and I were taken up as Speakers to deliver the Online Webinar Talk that moment. All Registered Electrical Workers (REWs) entitled to apply for a 2-hour REW CPD Scheme. (Note: 471 REWs registered the Webinar as scheduled)

4. Revamping HKIE-BSD Website

For the sake of keeping up-to-date announcement and CPD activities to our Members, BSD’s Website was substantially revamped. Our Web Master Kevin Chow spent extraordinary effort to get thing done smoothly.

5. Enhancement of HKIE-BSD's Role and Professional Standing

HKIE-BSD Committee Members actively served the industry with the aim at providing our professional knowledge to various sectors. HKIE-BSD successfully participated in numerous nos. of nominations in various External Taskforces, Working Groups, HK SAR Government's Consultation Boards, Panels and Committees etc.. Some of them are as follows:

- a. Buildings Department - Contractors Registration Committee (CRC) Panel and CRCs under the Buildings Ordinance
- b. Development Bureau - Appeal Board Panel under the Construction Workers Registration Ordinance (CWRO) (Cap 583)
- c. Home Affairs Department - Advisory Panel on Licensing of Hotels and Guesthouses
- d. Social Workers Registration Board (SWRB) - Assessment Panel of the SWRB
- e. Fire Services Department - Advisory Committee under Fire Safety (Buildings) Ordinance, Cap 572
- f. Vocational Training Council (VTC) - Training Boards of the VTC
- g. Electrical and Mechanical Services Department - District Cooling Services Ordinance (Cap 624) Appeal Board Panel
- h. Electrical and Mechanical Services Department - Examination Committee for Registration as a Grade B Electrical Worker
- i. Electrical and Mechanical Services Department - Examination Committee for Registration as a Grade C Electrical Worker
- j. Kowloon City District Council - 2020-2021年度九龍城區優質樓宇活動 - 優質樓宇管理比賽暨最佳環境衛生大廈選舉
- k. Electrical and Mechanical Services Department - Disciplinary Tribunal Panel under the Electricity Ordinance (Cap 406)

6. Cooperation with Local Universities, HK SAR Government's Departments and Authorities and Peer Institutions

HKIE-BSD was actively engaged in various activities being led by local Universities, HK SAR Government's Departments and peer Institutions including joint activities such as organizing activities as Co-organiser and Supporting Organization, attending coordination meetings, giving advices and Consultation, offering joint effort on certain research studies with mutual interests, etc. Summary are listed below:

1. Participated in "EMSD Working in Development on Best Practice for O&M Services of Electrical Installations" since Jan 2019 and offered 31 comments to the Working Group.
2. Performed Initial Judging for Hong Kong Student Science Project Competition (HKSSPC) 2020 on 15 August 2020.
3. Invited by PolyU-Building Services Department as one of the Panel Members for the selection of Outstanding BSE Alumni Award 2020.
4. Nominated by HKIE-Energy Discipline Advisory Panel (ENY DAP) as Hon. Secretary and participated in kick off HKIE-ENY - DAP Meeting on 11 Sept 2020.
5. Participated in the HKIE - "Championing Innovation" - Kick-off Ceremony for Events and Activities for Session 2020/2021 on 28 Sept 2020.
6. Invited by IFMA to take up the role as Jury Panel Member for Student Projects Competition 2020 on 17 Oct 2020.
7. Invited by CityU to deliver a Career Talk "Job Opportunities and Contributions to Society of Building Services Engineer" during "CityU Information Day 2020" on 24 Oct 2020.
8. Participated in the HKIE-Fire Division - 12th Annual Symposium 2020 at HKCEC on 6 Nov 2020.
9. Participated in Working Group as Member of the CoP for the Electricity (Wiring) Regulations 2020 Edition since 2019.
10. Participated in Build4Asia Opening Ceremony on 11 Nov 2020.
11. Participated in the Gala Dinner of Hong Kong Joint Symposium on 13 Nov 2020.
12. Nominated two (2) representatives to sit in the Organizing Committee of "Utility Safety Competitions 2020-21.
13. Delivered Career Talk to students at THEi for the topic of "Attractive Prospect of Building Services Engineering through HKIE Schemes" on 30 Nov 2020 afternoon.
14. Attended Comprehensive Certificate (JCCC) Course on Healthy Plumbing & Drainage System for Livable City 2020 on 1 Dec 2020.
15. Participated in jointly organized Webinar between HKIE-BSD and BSOMES for the "Technical Seminar on Ventilation and Building Air Disinfection Strategies Against Aerosol and Airborne Transmissible Diseases" on 2 Dec 2020.

16. Participated in joint Technical Webinar on Swimming Pool Technical Seminar Session 1 - Design & Installation for Swimming Pools on 15 Dec 2020 evening at HKIE-HQs.
17. Participated in the 1st Joint Technical Webinar with IET-HK for the “Introduction of ISO45001:2018 Occupational Health and Safety Management System” on 7 Jan 2021 evening at HKIE-HQs.
18. Participated in Joint Technical Webinar with CIPHE-HKB for the “Enhancement Measures to reduce the Resubmission of Plumbing Proposal and Streamlining Measures for Simple Case (e.g. Swimming Pool) of Application for Water Supplies on 19 Jan 2021.
19. Participated in the 1st Joint Technical Webinar with HKIE-SSC for the “Twin Lift – How Safety Works in Two Independent Lift Cars Operating in One Shaft” on 21 Jan 2021.
20. Participated in the 1st Joint Technical Webinar with HKIE-Fire Division for the topic of Testing and Commissioning of Tunnel Ventilation System on 28 Jan 2021 at FSD, TST HQs.
21. Participate in The 14th Communication Meeting between ArchSD and Hong Kong Professional Institutions (HKIE-BSD, ASHRAE-HKC and CIBSE-HKR) on 2 Feb 2020.
22. Invited by ArchSD to join a site visit to Hong Kong Infection Control Centre at Lantau North Hospital (北大嶼山醫院香港感染控制中心) on 2 Feb 2021 afternoon.
23. Participated in Joint Technical Webinar with CIPHE-HKB for the Technical Webinar on Innovative Design and Data Analysis on Mitigating COVID-19 Dispersion Risk in Residential Buildings on 3 Feb 2021.
24. Taken the initiative to invite EMSD to deliver a “Technical Talk on Major Changes of the CoP for the Electricity (Wiring) Regulations 2020 Edition” on 23 Feb 2021.
25. Participated in the AGM of CIBSE-HKR on 2 March 2021.
26. Invited by Mr Michael Wong, Secretary for Development of HKSAR Government to participate in the forthcoming Disciplinary Board under Lifts and Escalators Ordinance (Cap. 618).
27. Being invited by ICAC (as referred by HKIE-HQs and HKIE-Building Services Discipline) to act as Expert and assist the Court in administering public justice so as to produce an Expert Witness Report on opinion / evidence in criminal proceedings or proposed criminal proceedings.
28. Participated in the Kick-off OC Meeting of the OC for the Utility Safety – Slogan, Drawing and Practical Competition 2020/21.
29. Invited by HKIE-HQs, HKIE-BSD was one of the OC Members for the Shanghai and Hong Kong Symposium on Science and Technology 2021. Kick-off Meeting on 11 March 2021 and 12 April 2021.

7. Setting Up Professional Groups

The following Professional Groups were set up to enhance the involvement and communication with the engineering industry, young engineers and students with brief highlight as follows:

7.1 Young Members Committee (YMC)

This year, HKIE-BSD was also delighted to continue delegate representatives to the YMC as Speakers (Ir K F Yee, Ir Sally Leung and Ms Mandy Wong) for the Young or Ready Series: A Route to become a Professional Building Services Engineer (Jointly Organized by YMC and BSD) on 16 Feb 2021 with the aim at nurturing our young members to prepare their professional assessment under the new Competency-based Assessment Criteria. HKIE-BSD hoped to have more events so as to explore new possibility of collaborating with our youngsters.

7.2 Student Liaison Group (SLG)

Through this Student Liaison Group (SLG) under the HKIE-BSD, the Committee of HKIE-BSD offered a very close communication with students who are studying in Building Services Engineering in all tertiary institutes and Universities. SLG originally planned to organise activities including promotion talks, presentation competition, site visits, career talks / experience sharing delivered by BSD representatives from different sectors of the engineering industry to nurture the youngsters as well as giving friendly guidance via social activities. As the spreading of COVID-19 pandemics, some of the activities could not be conducted except the Institution promotion, the Webinar on Global Trend of Refrigerant and Sustainable Solution, the Career Talk, presentation competition and BSD Outstanding Students Award Competition 2021.

7.3 Sustainability Engineering Specialist Group (SESG)

The Sustainability Engineering Specialist Group (SESG) continued to collaborate with other HKIE Divisions and external organizations to promote sustainability engineering to our members and the society as a whole. SESG also connected to the HKIE-SDG Taskforce to promote SDG in engineering design and created influence on the general public. The Chair of SDG Taskforce was invited to give an introductory talk to the HKIE-BSD Committee on 8 Dec 2020. Externally, SESG collaborated with HKGBC for promoting carbon neutrality and sustainability. SESG convened a One Day Seminar jointly organised with The Hong Kong Polytechnic University - Department of Building Services Engineering, with the Theme on “The Endless Journey in Exploring Building Services Development and Sustainability 2021” was successfully conducted on 26 March 2021.

7.4 Retro-commissioning Group (RCxG)

HKIE-BSD supported the launching of Retro-commissioning (RCx) Training and Registration Scheme by HKGBC. HKIE-BSD was one of the Founding Members of the Scheme to build up the pool of RCx Professional and different level of RCx practitioners through relevant training to fulfil the training requirements of the registration scheme.

7.5 BIM Task Group

Headquarters of HKIE established a HKIE BIM Committee to develop BIM standards and practice for engineering industry with focus on project management across multi-disciplines. HKIE-BSD was invited to delegate a representative as the Taskforce Member of HKIE-BIM Committee.

7.6 Lifts and Escalators Specialist Group (LESG)

As Lift and Escalator was a crucial part of the building services engineering, LESG was established to provide a platform for LESG members from different specialists to enrich the knowledge in Lift and Escalator engineering technology and vice versa for Lift and Escalator Engineers to learn about other aspects of building services engineering. A dedicated WhatsApp Group including some experienced practitioners of Lifts and Escalators industry was set up for effective communications and exchange of views periodically.

As organized by EMSD, I participated in the Kick-off Meeting for Disciplinary Board (Lift and Escalator Ordinance) on 10 March 2021 and was elected as the Chairman of Disciplinary Board under the Chapter 618 - Lifts and Escalators Ordinance.

7.7 Women in Engineering Group (WiE)

In order to support the Taskforce on Women in Engineering (WiE) set up by Headquarters, HKIE-BSD established the “Women in Building Services Engineering (WiBSE) Group” recently to echo the Theme and provided a platform to facilitate the development of WiE in Building Services Engineering field. Subsequent to the first gathering of WBSE held on 11 January 2019, another joint gathering with ASHRAE-HKC and CIBSE-HKR would soon be conducted once the situation of COVID-19 is alleviated.

7.8 STEM Group

STEM Group comprised of HKIE-BSD Committee Members and young engineers to promote BS engineering among secondary and tertiary educational Institutions or Universities. BSD-STEM Group Members actively participated in engineering events so as to provide opportunities for youngsters to thoroughly understand BS Engineering in different perspectives. As invited by Diocesan Boys’ School to deliver a Career Talk on “BSE Webinar – Attract Prospect of Building Services Engineering through HKIE Schemes” on 20 Nov 2020.

8. Promoting the Engineering Profession to the Public

In order to promote the engineering profession to the public and particularly to the potential job seekers, HKIE-BSD submitted the following articles to present the professionalism and successful stories of building services industry via HKIE Headquarters. These articles were posted in the on-line platform of Classified Post and JobsDB.

- “Effective Implementation of Building Energy Management in Mega Size of Properties Portfolio” to “Classified Post” which was published in Classified Post on 24 Aug 2020.
- "Lift Modernization – The First Step of Optimising Safety and Energy Saving" which was published in Classified Post on 21 Jan 2021
- "Application of Building Information Modelling (BIM)" which was published in Classified Post on 22 Mar 2021
- "STEM Education and Development of Engineering Identity" to be published in April 2021.

9. Summing Up

HKIE-BSD has identified new opportunities to provide BS engineering and management training for both our growing young engineers and for the existing members. The HKIE-BSD Committee Members have a high degree of capability and shared enthusiastic commitment to serve our membership. With our diversified expertise, I have seen the Committee has achieved significant success during my term of service. During this session, Hong Kong faced the outbreak of COVID-19 pandemics, which spread internationally as well as locally. Taking into consideration of our members’ health and safety, we have reluctantly postponed or cancelled some of our planned activities. I would like to take this opportunity to express my heartfelt gratitude to all Committee Members, Observers, Helpers, Co-opted Members and those from peer Institutions who have exerted their effort and tremendous support to our activities to make it so successful. I would like to appeal again for their kind and dedicated support continuously to further enhance HKIE-BSD’s services to members in the forthcoming years. I treasure the support and contributions from all Members and from the Committee of HKIE-BSD, and it is this, which has led HKIE-BSD to reach new heights during my term of office.

Best regards



Ir K F Yee

Chairman, HKIE-Building Services Division (2020-2021)