

CIBSE Hong Kong Branch Newsletter







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MESSAGE FROM THE CHAIR



Dear Fellow Members,

In the past months of this session, the Committee, YEN and Shanghai Panel have worked hard in organizing various events for members. Major events including Joint Symposium and loint Comprehensive Certificate Course on Plumbing Drainage Systems have been successfully organized with active participation by members and practitioners. Miscellaneous technical events and social events such as Geological-tour and CIBSE Golf the Competition, etc. were also successfully held. Other than these events, the Branch has also joined the Task Force of EMSD on the Review of CoP for Water-cooled Air Conditioning Systems. On administrative side, the website of the Branch has been revamped and launched in November, we hope it could more effectively facilitate the communication with and services to our members.

On membership development, the Branch have conducted 64 professional interviews and 38 are being arranged. With this large number of applications each year, we need more professional interviewers and would like encourage our experienced to to join. Α training members interviewers will be held early next year and will be announced in due course. YEN is also very actively promoting CIBSE in universities and institutes.

The annual CIBSE One-day Seminar on SLL Lighting Guides and Application was held in both Hong Kong and Shanghai this time on 10 and 13 January 2017 respectively. Taking this opportunity, the Committee paid an official visit to Shanghai together with President Elect.

As usual, the other important events of the Branch – the AGM and Annual Dinner – are

going to be held on 7 March and 28 March respectively. We look forward to meeting more members in the coming events!

Development in Macau

The Branch, Macau Institution of Engineers, Macao Chapter, and ASHRAE HKIE-BS Division sianed а Memorandum Understanding (MoU) on 27 September 2016 during the Charter event of ASHRAE Macao Chapter. The four institutions will jointly organize appropriate events to further enhance the development of the institutions. The first event is being planned and will be organized in 2017 in Macau.



Signing ceremony of the Memorandum of Understanding by the four institutions



MESSAGE FROM THE CHAIR



BIM Application in Building Services Industry in Hong Kong

The study titled "Towards Adoption of BIM in Building Services Engineering in Hong Kong" carried out in collaboration with HKIE-BS Division and the HK Polytechnic University completed. The findinas was recommendations will be presented in details in a technical talk. In order to continue the contribution in promoting wider application of BIM in the building services industry, the Branch will participate in a new BIM Task Group jointly with HKIE-BS Division and other stakeholders. In UK, CIBSE has formed a BIM Steering Group which has been working with the industry to deliver non-proprietary BIM solutions for several years. One of the key outcomes is the development of Product Data conjunction with Templates in product manufacturers, designers and specifiers. The Product Data Template is a collection of parameters that describe and define a specific product or product type in a standarised format. In order to speed up the development and adoption of standardised product data, the BIM Steering Group in collaboration with a company have launched recently an online database and software programs named BIMHawk Toolkit, which could enhance the production of Product Data Templates and Product Data Sheets, and allow them to be easily integrated within BIM Authoring Software Applications. For more details and update of the development, members could visit CIBSE's website.

Supporting Environmental Protection Project

The Branch acted as a supporting organization to an environmental project organized by the "Junior Chamber International - Sha Tin" (JCI Sha Tin). JCI Sha Tin, which is a nonprofit organization of

young active citizens who are engaged and committed to creating positive impact in their communities, organized the project "Love of the Earth – Carbrexit" on 27 August 2016 to promote energy conservation and carbon footprint reduction among young people. The Branch was delighted to support this meaningful project which raised young people's awareness on environmental issues and encouraged their contribution to achieving a sustainable environment.



A group photo of speakers and supporting organization

Lastly, wishing you all a Happy and Prosperous New Year!

KY Leung Chair, CIBSE Hong Kong Branch, Session 2016–2017





BRANCH **ACTIVITIES**

President Elect and Chief Executive Visit 2016



A group photo of President Elect, Chief Executive, CIBSE HKB Committee and honorable guests taken during the cocktail reception held at British Consulate in HK.

Our CIBSE President Elect Mr. Peter Wong, and Chief Executive (CE), Mr. Stephen Matthews paid an official visit to Hong Kong in November 2016. A Cocktail Reception was held on 21 November 2016 at the British Consulate in Hong Kong. Guests from government departments, institutions, universities, and various corporations and companies, etc. were invited to join this reception for meeting each other and exchanging views on the development of the industry.

During the visit, President Elect and CE visited the Hong Kong Institution of Engineers (HKIE) and the Architectural Services Department. They also attended the Joint Symposium 2016 - Building a Smarter City via Latest Technologies held at Kowloon Shangri-La Hotel, and President Elect Peter delivered the keynote speech in the symposium. A Special Committee Meeting was also held with HKB committee to discuss the development in Hong Kong.



A group photo taken at HKIE Headquarters.



A group photo taken at ArchSD Office.



BRANCH ACTIVITIES

President Elect and Chief Executive Visit 2016









Cocktail Reception held at the British Consulate in Hong Kong.

or esident Elect and Chief Executive Visit 2016



BRANCH ACTIVITIES

CIBSE Medal Awards 2016

In this session, we are glad that CIBSE granted two Bronze Medals to two members in Hong Kong, they are Prof T.M. Chung and Mr. Alan Lau.

Prof. T.M. Chung just retired from the HK Polytechnic University. His major teaching and research areas were lighting engineering and environmental science. He has published many papers on his researches, particularly on lighting engineering, and also provided consultancy services to the industry and government. He was the chairman of the Departmental Learning and Teaching Committee for over ten years until retirement. Prof. Chung was the Chair of CIBSE HK Branch in Session 2010-2011, and had represented CIBSE in a number of Government Technical Task Forces and Working Groups including those for Building Energy Codes and External Lighting. The award was presented to Prof. Chung by Mr. Peter Wong, the President Elect, in Hong Kong in November 2016.



Prof. TM Chung received CIBSE Medal Award from Mr. Peter Wong, CIBSE President Elect



Mr. Alan Lau received CIBSE Medal Award from Mr. KY Leung, CIBSE HK Branch Chair

Mr. Alan Lau has over 24 years of extensive experience in building services engineering, and specializes in sustainability design application. He stations in the Shanghai office of WSP|Parsons Brinckerhoff since 2001 and is currently the Director of Building MEP, China Region. He has involved in many projects including skyscrapers, hotels and mega size projects in China. Alan was appointed as the visiting lecturer by the University of Nottingham Ningbo Campus to offer advice to the engineering degree course. In 2012, Alan assisted to set up the Shanghai Panel (SHP) of CIBSE to connect members who are practising in Shanghai region and to promote CIBSE. He served as the SHP Chairman for years 2012-2016. During his term of office, he undertook the liaison with local engineering institutions and associations, including the Shanghai Association of Science and Technology (SAST). The award was presented to Alan by Mr. K.Y. Leung, the Chair of HK Branch, in Shanghai in January 2017.



TECHNICAL ACTIVITIES

Joint Symposium 2016 — Building A Smarter City via Latest Technologies

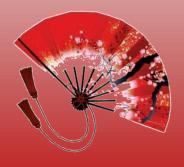


On 22 November 2016, the joint symposium 2016 — Building a Smarter City via Latest Technologies was held at Kowloon Shangri-La Hotel This symposium was an annual event jointly organized by CIBSE HK Branch, HKIE BS Division, ASHRAE HK Chapter and The Hong Kong Polytechnic University Department of Building Services Engineering.

After the Opening Address by Ir Chi-keung Hon, JP, Permanent Secretary for Development (Works) from Development Bureau, HKSAR Government and the keynote speech by CIBSE President Elect, Mr. Peter Y Wong, over 200 participants in the symposium shared the paper presentations under four Sub-themes:-

- Design Trends
- Statutory Requirements: An Update
- Applications and Experiences
- Green Issues

This symposium successfully facilitated a forum for both researchers and industry practitioners to foster all aspects for us to work toward a smart city for the building services engineering industry.











Photos taken in the Joint Symposium 2016.



TECHNICAL ACTIVITIES

Comprehensive Certificate Course on Plumbing & Drainage System 2016



A group photo of the organizing committee and guest of the comprehensive course on plumbing & drainage system 2016.

The comprehensive certificate course on plumbing and drainage system was a 12-sessions course jointly organized by The Chartered Institution of Building Services Engineers-Hong Kong Branch (CIBSE-HKB), The Chartered Institute of Plumbing and Heating Engineering-Hong Kong Branch (CIPHE - HKB), Hong Kong Plumbing & Sanitary Ware Trade Association Ltd. (HKPSWTA), The Hong Kong Institution of Engineers-Building Services Division (HKIE-BSD) and Building Services Operation and Maintenance Executives Society (BSOMES).

Speakers from specialists of the field were invited to give a refresh on the knowledge in plumbing and drainage systems. The course covered a wide range of topics including the design, installation, maintenance, as well as the sustainable and green features. The course was successfully completed on 31 Oct 2016 with an average attendants of over 190 per sessions.









TECHNICAL ACTIVITIES

Technical Seminar on Building Energy Code (BEC) 2015 and Technical Guidelines for the BEC 2015

A technical seminar on the Building Energy Code 2015 was conducted on 19 September 2016 in the HKIE headquarters. It was a technical activity jointly organized by CIBSE HK Branch, HKIE BS Division and ASHRAE HK Chapter with over 100 attendants.

Ir CHIU Chun-ting, Anfield ,senior engineer of EMSD, and Ir YIU Chi-wai, Carson, engineer of EMSD, presented the updated energy efficiency requirements as stipulated in the Building Energy Code (BEC) 2015 and gave a highlight on the major changes being introduced in the BEC 2015 and the Technical Guidelines.









SOCIAL ACTIVITIES



GEOLOGICAL TOUR 2016

The CIBSE Social Event – Geological Tour was held on 27th November 2016 (Sunday). 27 participants joined the tour and had a joyful and fruitful afternoon.

In the tour, a boat trip was conducted in Sai Kung Sea to explore the geological attractions of the inner islands. The eco-tour guide introduced the story, history and the geological information of the natural at tractions bounded by the Sai Kung inner sea. The wonders of the likes of hexagonal rock column, islands distribution and information of Sai Kung inner sea, as well as the story of the West Dam were explored.









CIBSE Geological Tour held on 27.11.2016.



SOCIAL ACTIVITIES

GOLF COMPETITION 2016

The CIBSE Golf Competition 2016 was held on 17th December 2016 (Saturday). 21 participants contended for the crown and had a joyful afternoon.

The competition was held in Mission Hills Shenzhen Clubhouse, where all the contenders strived for their best in the Zhang Lian Wei Course in hope of winning the Par King Trophy. At the end of the day, member Ho Man Kin became the Par King with his staggering performance of 4 birdies and 3 pars, resulting in a total of 11 pars. Prizes for participants getting the nearest to the pin for each hole were also given. After the competition, the participants enjoyed an exquisite cuisine in Mission Hills Centreville.











Cibse Golf Competition 2016 held in Mission Hills Shenzhen Clubhouse.



TRAINING & DEVELOPMENT ACTIVITIES

THEi BSE Briefing 2016



A group photo of the speakers for THEi BSE Briefing Session.

CIBSE-HKB was invited to give a presentation in a briefing session on Building Services Engineering organized by the Department of Construction Technology and Engineering of THEi on 20 August 2016 at THEi Tsing Yi Campus. The purpose of the session is to provide a broad introduction about the building services Industry and as well as the various routes for obtaining professional qualification to the students. Mr. Hyvan Wong, Training and

Development Coordinator, represented CIBSE-HKB to give a brief introduction of CIBSE.

There were around 40 participants joined this briefing section and it went very successfully. There were a lot of positive feedbacks from the students. CIBSE-HKB would like to express our great appreciation to Eur Ing Kwok Pun CHEUNG, Dr Hui Chun Man for organizing the session.



Dr. Sam Hui gave an opening speech.



Mr. Hyvan Wong gave a brief introduction of CIBSE.



2017 Solar Decathlon China 2017 Competition, Nottingham University, Ningbo, China



CIBSE HKB SHP present supporting fund to the University competition team.

CIBSE Hong Kong Branch, Shanghai Panel supported with a prize to the UNNC Alpha team of University of Nottingham, Ningbo, China for the Solar Decathlon China 2017 Competition. The design competition organizer invited 22 unite teams from more than 10 countries involving 47 universities.

Mr. Kelvin Tang, Chairman of SHP attended an interim design presentation meeting by the UNNC Alpha Team on 29 October 2016 at Nottingham University, Ningbo and provided technical comment to their design for 2017 Solar Decathlon China.

Their project design is a showcase for sustainable design of elder friendly home. Each team is required to design and build a double deck, solar powered house with site area 120-200 m².

Every house will be equipped with household appliances and an electric vehicle and charging device. These appliances shall be powered by solar energy. The assessment will evaluate the house cost feasibility, power efficiency, environmental adaptability, power generation capacity, etc...

Their design submission will be actually built at Dezhou of Shandong, China on 16 July 2017 within 12 days construction period. All the houses will be retained as a showroom after the competition.



Project Design of UNNC Alpha Team



Presentation of the design by UNNC Alpha Team



Kelvin Tang of CIBSE HKB SHP and UNNC Alpha Team



Design presentation and discussion.



Technical Site Visit to Shanghai Rui Hong Xin Cheng Lot 3

CIBSE HK Branch Shanghai Panel organized a technical visit to the Rui Hong Xin Cheng Lot 3 located at Lin Pin Road, Shanghai. It is a commercial development with Retail and F&B outlets, low rise hotel and an auditorium.

The visit was started by introduction of the project MEP design by the MEP Design Consultant, then led by the Client's MEP project team to visit the chiller plantroom and major MEP plantroom at Basement 1 and fan installation at podium roof. The project podium air-conditioned area is around 37,500 sq.m. The project has installed with 4 nos.

850 RT water cooled centrifugal type chiller and 3 nos. 2.1MW gas boiler for the Retails shop air conditioning and one 375kW air cooled screw type heat pumps for the auditorium air conditioning.

The technical visit was attended by both the industry engineering members and the student members of University of Nottingham, Ningbo, China.









Technical Site Visit to Shanghai Rui Hong Xin Cheng Lot 3



Student Mentoring Program of the University of Nottingham Ningbo Campus 2016



SHP met year 3 & 4 students of UNNC.

CIBSE SHP was invited to participate the Student Mentoring Program organized by the University of Nottingham Ningbo Campus (UNNC) starting from 2015. The eligible candidates will be the 3rd year and the 4th year Students of the Architectural Environmental Engineering (AEE) Course.

The CIBSE SHP committee members act as the mentors of the engineering students offering guidance and sharing industrial engineering experiences with the students.

This year, the CIBSE HKB Shanghai Panel committee members also continue their participation in the mentoring program by attending a meeting with the AEE students on 29 October 2016 at the University of Nottingham, Ningbo, China to answer their questions about the Building Service Industry overview, market outlook, practice, career paths, further study and industrial training requirement leading to the Corporate membership application requirement.





SHP had discussion with students.



Technical Site Visit to Data Centre of Industrial Security Company, Dingxiang Road, SH



Technical Site Visit to Data Centre of Industrial Security Company, Dingxiang Road

CIBSE HK Branch Shanghai Panel organized a technical visit to the Data Centre of Industrial Security Company located at Dingxiang Road, Shanghai (丁香路兴业证券数据中心). The Industrial Security Company had occupied the East Tower of the project site which a twin tower with retail podium. The Data Centre of the financial security company is located at 14/F of the East Tower.

The visit was started by the introduction of the Data Center MEP design by the MEP Design Consultant, WSP Parson Brinkerhoff, Shanghai office, then led by the General MEP Contractor, Siemens to visit the Data Centre at 14/F, outdoor chiller plantroom at tower roof, main LV switch room and UPS room at Basement 1.

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Technical Site Visit to Data Centre of Industrial Security Company, Dingxiang Road

The project has installed with 4 nos. 100RT, electro-magnetic chiller (磁悬浮冷冻机) due to its compact size and high efficiency (COP) so that it can be delivered to roof using existing service lift. The Data Centre area is approx. 1,100 m^2 and can house around 110 IT rack. In-row AC units are installed adjacent to the IT racks.



Technical Site Visit to Data Centre of Industrial Security Company, Dingxiang Road







Smart Building International Meeting

CIBSE HKB Shanghai Panel committee was invited by the Shanghai Institute for Science & Technology of Building (SISTB) (上海市楼宇科技研究会) to attend the Smart Building International Meeting (智慧楼宇国际研讨会) at Shanghai on 24 The forum meeting were September 2016. participated property development by organizations, building industry engineering suppliers and university professors, facility management and Shanghai Engineering institutes from various countries such as Korea. Kelvin Tang, Alpha Chu and Alan Lau represented SHP to attend the meeting.

The speakers from various organization and parties delivered their speech related to the Smart Building definition and development in the world in the morning session.

There was floor discussion forum in the afternoon session for the participants to discuss in more details about the Smart Building aspects.



Discussion forum in afternoon session by industry participants



University of Nottingham, Ningbo, China - 2nd Industry Panel Meeting



A group photo of Industry Panel members and AEE Course Panel members.

Mr. Kelvin Tang, Chairman of Shanghai Panel attended an one day meeting at University of Nottingham, Ningbo, China on 30 October 2016 at the University Campus together with other Industry panel members including Professor Derek Clements-Croome from University of Reading and Ir Edwin Lee of Glumace. The meeting was chaired by the Head of Department of Architecture and Built Environment, Dr. Llewellyn Tang and his Architecture Environmental Engineering (AEE)

course panel members.

The guest panel members were requested to provide their comment regarding the AEE course structure, gap between the course context and industry practice, suggestion to enhancement of the course and graduate training.





UNNC introduced their BIM Course.

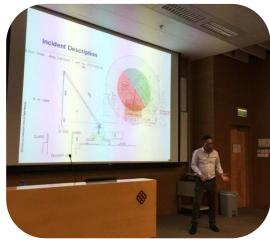
Panel members visited the first Zero Carbon Building in China built inside the University Campus



YEN ACTIVITIES

Safety Seminar on "BS Design by Incorporating the Safety Concern"

Safety already becomes the one of the key success factors in the construction industry which is inline the society's rising awareness expectation. It is necessary for a BS engineer to consider the safety elements in their design, construction management and system operation. Thus, CIBSE Hong Kong Branch Young Engineers network (YEN) organized a safety seminar "BS Design by Incorporating the Safety Concern" at the Hong Kong Polytechnic University on 22 June 2016 to share and update safety design issue in society. We are pleased to have Mr. Eric Wong, Unit Health & Safety Manager of Gammon Construction Limited, to share his practical experience on the design & risk management on the low level work / congested area and accident investigation on the near miss cases. Furthermore, Eric also introduced various solutions to tackle the safety design by means of software and hardware methodology. Eventually, the mindset and knowledge of safety were enhanced. As one of the stakeholder in this society, CIBSE HKB-YEN will –continue to organize similar safety seminars and provide a good platform to deliver update safety information to members.



Mr. Eric Wong delivered a talk on "BS design by incorporating the safety concern."

Technical Visit to the District Cooling System at the Kai Tak Development 2016

The Kai Tak District Cooling System (DCS) Visit was held successfully in August 2016 at the Kai Tak Development (KTD) Area. More than 30 young engineers joined the visit. This visit was specially arranged for those who missed last year's one and gave them a great opportunity to witness this Hong Kong engineering milestone - the first project of this kind to be implemented by the Hong Kong Government.

The visit started with a presentation on overview of this project conducted by Mr C W Leung, representative of Dalkia Asia Pte Ltd, operator of the DCS. The first phase of this project is in operation and the second phase and the third phase will be commissioned within next five years. The DCS serves all public and private non-domestic developments within KTD area by providing chilled water through underground pipes for their airconditioning purpose. DCS delivers significant benefits both in terms of environment, conformance, operational efficiency,

conservation, etc. By using nearby seawater for heat rejection, further energy saving and open space saving can be achieved. Mr C W Leung also shared the challenges they have encountered such as issues on pipe insulation, leakage detection and etc.

After the presentation, the participants visited the control center and chiller plant. All the young engineers were deeply impressed when guided to the chiller plant room with all E&M installations such as chiller, pump and AHU.

This Kai Tak DCS technical visit had plenty to inspire young engineers - from centralized large chiller plants to systematical energy control – but the most important lesson, as shared by some participants after event, was to raise awareness of making contribution to green and sustainable development of Hong Kong from different engineering disciplines.



YEN ACTIVITIES

Chartership and Membership Briefing Session 2016

The Chartership and Membership Briefing Session was successfully held on 29 August, 2016 at The Hong Kong Polytechnic University, with more than 35 young engineers attended the session in the evening. This session offered an excellent opportunity for the participants, especially those planned for upgrading or applying for CIBSE Membership and seeking professional registration with the Engineering Council (UK), to converse and discuss with the CIBSE Professional Interview Coordinators and gain knowledge on applications for the Corporate Member (MCIBSE & CEng registration).

It was our honour to have Mr. John Cheung, Honorary Advisor and Professional Interview Coordinator, Dr. PL Yuen, Professional Interview Coordinator, and Mr. Tony Lam, CIBSE HK Branch YEN Honorary Secretary, as our guest speakers in the evening. Our honourable speakers conveyed valuable information and advices to our audiences, such as CIBSE Membership requirements and routes, application procedures, identification on main competence areas with Competence Criteria, key focus on "Engineering Practice Report" and "Professional Review Interview", tips on do's and don'ts for professional assessment, and lastly, the road to be a Chartered Building Services Engineer.

The speakers concluded the session with an important message to the fellow audiences: "It is your opportunity to present your achievements as a professional building services engineer in the interview. CIBSE wants you to succeed!"







From L to R Dr. PL Yuen Mr. John Cheung Mr. Tony Lam

Testing and Commissioning of MEP installations in Data Centres

The "Testing and Commissioning of MEP installations in Data Centres" seminar was held on 14 September 2016 at The Hong Kong Polytechnic University. The speaker, Mr. Chandra B. Gurung, shared his T&C experience in data centre projects, especially the difficulties during T&C and solution methods to deal with those problems. The event was held successfully and 58 participants take part in the seminar.





YEN ACTIVITIES

Elderly House Visiting

CIBSE HKB YEN organized a charity event on 4 September 2016 at Yin King Home of Aged. This was the second time that YEN visited elderly house. There were total 10 members participated the event. To celebrate Mid-Autumn Festival. fruits and prepared mooncakes for the elders. During the visit, we played riddle game and did physical exercise with them. Also, drama was performed to encourage them doing exercise more often. We all had an unforgettable great time with the elders. We are looking forward to having this meaningful activity again in the future.





A group photo taken at elderly house visit.

CIBSEYEN HK Branch Sport Tournament 2016

Sport Tournament 2016 was successfully held on 4 November 2016 at Ball Room in Lai Chi Kok. The tournament theme was Pool Soccer which is a modern fusion of Eight-ball Pool and Soccer. More than 30 youth participants from building services industry and academic institutions, namely City University (CityU) and Polytechnic University (PolyU). And YEN committee also formed a group to have fun with the young member's teams.

In hindsight, this function allowed the participants to relax and have fun after their daily work whilst giving themselves a chance to demonstrate their tactical skill. It also provided a sharing platform for the building services professionals to build rapport and strengthen their inter-relationship. Ultimately, the champion, first runner-up, second

runner-up of the competition was PolyU student team, young engineer team and the CityU student team respectively. All the participants have made this event a joyful and memorable one. The response for the next tournament was overwhelming.





UPCOMING ACTIVITIES

CIBSE Annual Dinner 2017

CIBSE Annual Dinner 2017 will be held on 28 March 2017 at the JW Marriott Hotel in Hong Kong.

All members of the Chartered Institution of Building Services Engineers and guests are cordially invited to join the Annual Dinner.

For reservation, please refer to CIBSE website for details.

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Annual General Meeting

Annual General Meeting 2017 will be held on 7 March 2017 at the World Trade Centre. You are invited to attend the Annual General Meeting (AGM) of Hong Kong Branch for the 2016 / 2017 Session and participate in the Branch Committee election for the Session 2017 / 2018.



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(This Newsletter is also available at the CIBSE website at http://www.cibse.org.hk)



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