



NEWSLETTER

2006/2007 Issue

The Chartered Institution of Building Services Engineers
Hong Kong Branch

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CHAIRMAN'S MESSAGE

Dear members,

IT IS MY GREAT PLEASURE TO BE ELECTED AS THE CHAIRMAN OF THE CIBSE HONG KONG BRANCH FOR YEAR 2006-2007. WE ARE ENTERING INTO THE 27TH ANNIVERSARY OF THE ESTABLISHMENT OF CIBSE HONG KONG BRANCH, AND THE NUMBER OF OUR MEMBERS IN HONG KONG NOW REPRESENTS 1/6TH OF THE MEMBERSHIP SIZE OF THE INSTITUTION. WE ARE PROUD TO SAY THAT THE HONG KONG BRANCH IS VERY SUCCESSFUL, AND SO SUCCESSFUL THAT THE HEADQUARTER RECOGNIZES OUR BRANCH AS AN EXTRAORDINARY PERFORMER AMONGST ALL REGIONS AND CHAPTERS AROUND THE WORLD. THANKS TO THE GOOD WORK AND ACHIEVEMENT MADE BY ALL THE PAST CHAIRMEN.

1. CONTINUE OUR PROMOTION FOR BUILDING SERVICES PROFESSION IN HONG KONG AND MAINLAND CHINA

THE LOCAL PROMOTION WILL BE ENHANCED BY ORGANIZING MORE TALKS FOR UNIVERSITY STUDENTS AND GRADUATES, AND MORE PROMOTIONAL ACTIVITIES FOR SECONDARY SCHOOLS AND GENERAL PUBLIC. FOR THE MAINLAND, WE HAVE ALREADY PUT IN PLACE THE YEARLY CHINA SYMPOSIUM AND THE ANNUAL GUANGZHOU CONFERENCE. WE WILL LOOK FOR OPPORTUNITIES IN SPONSORING TECHNICAL TALKS OF BUILDING SERVICES SUBJECTS HELD IN UNIVERSITIES AND COLLEGES IN GUANGDONG PROVINCE.

2. PROVIDE MORE VALUE-ADDED SERVICES TO OUR MEMBERS

WE WILL ORGANIZE MORE SUITABLE FORUMS (E.G. FELLOWSHIP NIGHTS) FOR VARIOUS MEMBERS TO EXCHANGE THEIR VIEWS AND INTERESTS OF OUR PROFESSION. ANOTHER TARGET IS TO ENRICH OUR

LOCAL LIBRARY WITH CURRENT UPDATE OF PUBLICATIONS WHICH ARE PARTICULARLY INTERESTED TO OUR HONG KONG MEMBERS.

3. ACT AS THE LINK BETWEEN THE HEADQUARTER AND THE HONG KONG MEMBERS

WE WILL TAKE A MORE ACTIVE ROLE IN PROMOTING HEADQUARTERS' INITIATIVES TO OUR HONG KONG MEMBERS AND REFLECTING THE FEEDBACK/ OPINIONS RECEIVED FROM THE HONG KONG MEMBERS TO THE HEADQUARTERS SUCH THAT THE HONG KONG LOCAL INTERESTS CAN BE BLENDED INTO HEADQUARTERS' ACTIVITIES.

4. MAINTAIN MEMBERSHIP GROWTH

WE WILL PROMOTE THE BENEFIT OF CIBSE MEMBERSHIP TO WIDER SPECTRUM OF BUILDING PROFESSIONALS INCLUDING LIGHTING DESIGNERS, FACADE ENGINEERS, LIFT ENGINEERS, ETC. WHO ARE ENCOURAGED TO JOIN CIBSE MEMBERSHIP AND LINK THEIR INTERESTS TO THE SPECIAL INTEREST GROUPS OF THE HEADQUARTER.

LAST BUT NOT THE LEAST; I WOULD EXPRESS MY HEARTFELT THANKS TO OUR IMMEDIATE PAST CHAIRMAN, MR THOMAS CHAN, AND HIS COMMITTEE IN LAST SESSION FOR THEIR HARD WORK AND VALUABLE CONTRIBUTIONS DURING THE TERM OF SERVICES IN YEAR 2005-2006.

PHILIP CHAN
CHAIRMAN, CIBSE HONG KONG BRANCH
COMMITTEE 2006/2007

Committee for Session 2006/2007

Chairman	Philip CHAN	Conference Coordinator	S K HO
Immediate Past Chairman	Thomas CHAN	Social Secretary	S C LEUNG
Vice Chairman	Thomas SOON	Young Members Group Chairman	Alvin LO
Honorary Secretary	Victor LEUNG	Technical Activities Coordinator	Herbert LAM
Honorary Treasurer	K Y LEUNG	Communications Coordinator	Jovian CHEUNG
Honorary Advisor	Ronald S CHIN	HKIE-BS Division Coordinator	Clarence MAK
PI Coordinator	Simon CHUNG	ASHRAE Coordinator	Tim CHENG
Training Coordinator	K K LAM		
External Affairs, Coordinator	T M CHUNG		

Immediate Past Chairman Report for session 2005/2006

The Hong Kong Branch had had a busy year. The year was kicked off by the very successful 26th Anniversary Dinner held on 22 March 2005 where some 400 members and guests from the trade as well academic sectors were present. The occasion also celebrated 8 new entry of Fellows to the Institution.

Another highlight of the year was the Joint Symposium 2005 "New Challenges in Building Services" held on 15 November 2005 with our President-Elect, Mr. David Hughes, flew over from UK to deliver a speech over the luncheon. The event was attended by over 350 local and overseas building services professionals.

We had held over 25 technical talks, workshops and visits for our members including five cross-border technical visits during the year. All these activities received overwhelming support with full house attendance. Besides these regular technical talks and visits, three technical workshops delivered by distinguished lecturers from abroad had also been organized this year.

A one-day workshop on "Guide K – Electricity in Building" delivered by Dr. Tony Sung was held on 16 September 2005 with some 150 attendance. Another half-day workshop on "Development of Energy Consumption and Efficiency in Building Sector of China" conducted by Professor Long Weiding was held on 2 December 2005 where 100 members and non-members had participated.

The third one-day workshop on "Guide A – Comfort vs Energy Efficiency" is also planned to be held on 31 March 2006. It would be conducted by distinguished lecturers from UK including Mr. David Hughes, Mr. Hywel Davies and Dr. Li Shao.

Our President-Elect paid his first visit to the HK Branch in March 2005 updating us on the new developments in the membership. He then conducted two sessions of interviewer training for the Branch professional interviewers. The CIBSE CEO, Mr. Julian Amey joined his second visit to Hong Kong in November 2005. During their stay, they attended the Joint Symposium 2005 and met general membership of the Branch as well as paying visits to associated institutions and academic organizations. In addition, together with several Branch Committee members, we had also visited Guangzhou.

Further, the Mainland – Hong Kong Joint Symposium was successfully held on 1-2 July 2005 in Wuhan, Hubei Province.

A joint seminar was also held jointly with the Guangdong Refrigeration Institute on 21 December 2005 in Guangzhou. These activities not only provided excellent opportunities for members from Hong Kong to exchange valuable experience with our counter-parts in the Mainland, they also served to promote CIBSE to China.

The Branch website managed by the Branch communications coordinator has been upgraded with additional contents and

features to serve members in enhancing communication and professional networking. An on-line registration for Branch events was launched in August 2005 and was well received by members at large in Hong Kong.

Our commitment to support local higher education in building services engineering by donating prizes to students with outstanding performance continues. The recipients included students from the Hong Kong Polytechnic University, the University of Hong Kong, the Hong Kong University of Science and Technology, the City University of Hong Kong and the Hong Kong Institute of Vocational Education.

Overall the HK Branch had a very successful year. I wish to express my gratitude to all the committee members including our Young Members' Group for their hard work and accomplishment in the past 12 months. I would also like to give my heartfelt thanks to our Immediate Past Chairman, Mr. Ronald Chin, and our Past Chairmen and Advisors, Mr. KO Yeung, Mr. Peter Wong and Mr. Victor Cheung for their invaluable advice and guidance to the committee. Most important, I would like to thank all of you for supporting activities organized by the HK Branch.

Finally, I wish every success to our incoming Chairman, Mr. Philip Chan and members of the session 2006/07 committee in leading our Branch.

Thomas Chan
Chairman, 2005/06
March 2006

Forecoming Events

8 March 2007 Thursday
14 March 2007 Wednesday
22 March 2007 Thursday
29 March 2007 Thursday

Annual General Meeting for 2006/2007 session
Technical Seminar on "The Latest Development of 11kV Distribution System Protection"
CIBSE Annual Dinner 2007
Technical Talk on "Surge Voltage Protection"

CIBSE Hong Kong Branch Research Grant 2006

The title of the research is "A Study on the Criteria of Thermal Comfort of Chinese". The investigators for the research are Dr. Albert So (Team Leader), Mr. K.K. Lam, and Mr. Wilson Suen.

Background

The previous CIBSE research grant project carried out in 2005 concluded that HVAC control must be "human comfort" based. The most popular way to estimate "human comfort" is by means of Predicted Mean Vote (PMV) which takes into account of six parameters, i.e. human metabolic rate, clothing, dry-bulb temperature, water vapour pressure (i.e. humidity), radiant temperature and speed of air movement. PMV is based on the thermal comfort equation introduced by Prof. P.O. Fanger in 1970 and now, it has become an international standard, being used everywhere around the world.

In the previous project, we carried out a simple survey with six human subjects to get a general concept the range of acceptable PMV values of the Chinese. They were of different sex and age groups. The result revealed that the young Chinese preferred a PMV value around 0.5 while the senior Chinese preferred a PMV value around 1.0. It may imply that the temperature setting of existing air-conditioning systems in China has been too low, thus wasting energy.

At the end of the report of the previous project, we recommended a more detailed survey or study on the preferable range of PMV values of the Chinese.

As far as the investigators are aware, there has not been any study in this aspect ever conducted in China before. It is very meaningful to carry out a preliminary study on this issue although a comprehensive study will be very costly.

Methodology

As mentioned above, it is very costly, though not totally impossible, to conduct a comprehensive study on the preference on thermal comfort of the Chinese. In this proposal, we are going to conduct this study on 210 Chinese of different sex and age groups. The cost of conducting the survey in Hong Kong is very high and therefore, similar to the previous project, we propose to conduct the survey in Dongguan.

A controlled environment will be provided by the Dongguan University of Technology. All four parameters can be under control, namely dry bulb temperature, wet bulb temperature, air speed and radiant temperature. 210 human subjects will be invited to sit inside the controlled environment adjusted to different combinations of the four parameters. The whole duration of test for each subject is around 90 minutes.

210 Chinese are to be involved, half male and half female with different age groups. All human subjects are to be under a metabolic rate of around 1 met, i.e. sitting quietly without any exercise and a clothing insulation of around 0.7 clo, i.e. long trousers and shirts, short sleeved.

Two rooms are needed. One room is the standard air-conditioned room, called the control room, maintained at 22°C dry bulb, 70% R.H., 22°C radiant temperature and 0.1 m/s air speed for subjects to take a reset before the experimental room is ready. The other room is the controlled environment for the test. So, each room will be equipped with air-conditioner(s), fan(s), a humidifier, a dehumidifier and a radiation heater. Equipment for measuring T_{db} , T_{wb} , T_{rad} (based on T_{globe}) and V_a will be available.

The procedures of works will be as follows:

- a) subjects into control room and wait until experimental room stabilized;
- b) subjects into experimental room and wait for about 5 minutes until experimental room stabilized, then fill in questionnaire;
- c) repeat items (a) and (b) for all scenarios;
- d) scenarios should be in random sequences for different groups of subjects.

Financial Requirements

Provision of the two rooms and the facilities there will be provided by Dongguan University of Technology. All survey works will start in mid July and finish by mid August, i.e. during the peak summer. Draft final report will be available in September 2006.

NEWS OF THE YOUNG MEMBERS GROUP

Technical Putonghua Training Courses

In view of increasing building projects in the Mainland, Technical Putonghua training courses including HVAC system, Fire Services System, Plumbing & Drainage System, Electrical System and Sustainability / Energy were organized for members to have the basic idea on the wide range of Mandarin expressions and phrases which are commonly used in the building services engineering industry. The courses finally received good response from our members and the appreciation from the participants

Forthcoming Activities

February 2007 : Career Talk
March 2007 : Chartership seminar

Green Building Design Series Visits and Seminars

The main theme of technical visits and seminars organized by YMG in the session of 2006-2007 is "Green Building Design". A series of site visit and seminar were organized for members to have a view on current green building design in Hong Kong. The Green Building Design Series Visits and Seminars include :

- Technical Visit to Wetland Park
- Technical Visit to Hong Kong AsiaWorld-Expo
- Technical Seminar on MTR Disneyland Resort Line ~ Sunny Bay Station

The design of the building services installations coping with the architectural design and unique ecosystem were introduced by the project engineer during site visit which provides a better understanding to the system design to the participants.

Young Members Group - Committee for Session 2006-2007

Chairman	Alvin LO	CityU Coordinator	Samuel LO
Immediate Past Chairman	Eric Ngai		Kevin WAN
Vice Chairlady	Ms. Wendy KWOK	HKU Coordinator	Mike LEE
Hon Secretary	Stephen LEE		Jason LEUNG
Hon Treasurer	Ms. Joey MO		Kevin CHOW
Communication Coordinator	Ms. Susanna WONG	IVE Coordinator	Hugo CHAN
	Ms. Macy WONG		Oscar PANG
Technical Activities Coordinator	Ms. Kat CHAN		Ms. Janet YUEN
	Ms. Christy POON		Dick IP
Internal Affairs Coordinator	Alvin WONG		Ben CHENG
Co-Opt Member	Ms. Sally LEUNG	PolyU Coordinator	Ms. Yuki WONG
	Ms. Wendy CHIU		Ms. Mandy WONG
	Ms. Elaine MA		Ms. Olivia TANG
	Chris KWAN		Herman LEUNG
	Ms. Helen KUNG		Ms. Jackie NG
	Kenny LAM	HKUST Coordinator	FAN Yiu-Lun
	Michael CHUNG		Henry CHAN
	Ethan POON		

CIBSE Hong Kong Branch Website

Welcome to visit website of CIBSE Hong Kong Branch. We hope that it will provide an informative and useful site for all members. It will be progressively improved and updated by adding new content and features in 2006. If there is anything you would like to include or comment which may improve the site or its user accessibility, please let us have your thoughts by emailing the branch at webmaster@cibse.org.hk.

If you have any suggestions on how we can make this site better, please use the "feedback" link on the homepage to give us your suggestion. Souvenir from CIBSE HKB will be awarded for your valuable opinion. Once again, welcome to CIBSE Hong Kong Branch and please let us know how we can make it better.