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## Presidential Address

Dear ASC members,

We have come to the end of 2017 and looking back, we had held two major events on the 2<sup>nd</sup> part of the year.



On behalf of all BOGs, I would like to thank you for your excellent turn out during our 35<sup>th</sup> Annual dinner held at Fairmount Hotel, Raffles Convention Centre on 7 July 2017. I would also like to thank all our sponsors for giving us continuous support in this event.

A special thanks to Er. Leong Cheng Wee, who volunteered to chair the 20<sup>th</sup> CRC held at the Hilton Hotel. During this event, there were a total of 10 countries participated.

Next year, we will be organising our MP-RP night together with our Chinese New Year celebration on 1<sup>st</sup> February 2018. Entrance fees for all ASC members will be fully subsidize and we hope all of you come and join us during this occasion.

I wish all ASC members a blessed New Year with good health.

Yours faithfully

Er. Patrick Ho

## 28<sup>th</sup> Bilateral Meeting

The 28<sup>th</sup> Bilateral Meeting with ASHRAE Malaysia Chapter (MASHRAE) was held on 11<sup>th</sup> November 2017 at Hatten Hotel, Malacca, Malaysia. It is an annual event for both chapters to share views and strengthen collaboration in organizing activities. This year's meeting was hosted by ASHRAE Singapore Chapter (ASC). Following members attended the meeting:



MASHRAE		ASC	
Chioo Bin Tan	President	Patrick Ho	President
Wen Bin Ng	President-Elect	David Edenburn	President-Elect
Kok Zhen Law	Chair, MP	Florence Chan	Treasurer
Suei Keong Chea	Chair, GGAC	Junjing Yang	Chair, MP
Chun Yong Khoo	Chair, YEA	Yuichi Takemasa	Chair, CTTC
Eng Ee Seong (Jeffrey)			

Among topics discussed:

- 1) Linking of ASC/MASHRAE events
  - a. Both chapters' will communicate and to advertise major upcoming events
  - b. Chapter Technology Transfer Committee (CTTC) Chairs of both chapters will exchange schedules of events and advertise the events of the other chapter.
  - c. Both chapter's CTTC chairs to look into a joint seminar or event in the future
- 2) Student Activity (SA) and Young Engineer in ASHRAE (YEA) collaboration
  - a. ASC and MASHRAE agreed to collaborate and publicize their activities on each other's social media platform and website. Both chapters YEA and SA chairs to look into collaborating opportunities for joint activities in this region.
- 3) ASHRAE Courses and Seminars
  - a. Both chapters will share their flyers for future DL course and encourage members of each chapter to attend courses in the other country. Members of each chapter will be charged at member prices for attending courses organized by either chapter.



## Technical Talks Presented by ASC Members

### Sustainable Hotel

ASC members, Mr. David Edenburn and Mr. K Y Yow were invited to present at “Sustainable Hotels” Seminar on 8 September 2017 organized by YKNOT Sustainability and BSD. This seminar addressed the importance of sustainable design/construction including certification that is linked to operational performance. Mr. David Edenburn presented topic on “Commissioning and Retro-commissioning for Improved Performance” and Mr. K Y Yow presented topic on “Designing Energy Efficiency: Hotels”.



*Mr. David Edenburn*



*Mr. K Y Yow*

### Monstra Convegno Expocomfort Asia (MCE Asia) – 2017

MCE Asia conducted trade exhibition from 5 – 7 September 2017 at Marina Bay Sands. Dr. Junjing Yang was invited to present a topic on “Designing and Managing Energy Efficient Buildings”. Energy efficiency in buildings has become a global issue for facility managers, building owners/operators, designers, contractors and building occupants. In her presentation, she provides information regarding building energy efficiency both at design stage and operation stage, from the discussion of major problems/barriers of existing buildings, to the emerging methodologies and concepts to achieve energy efficient buildings.



*Dr. Junjing Yang*



*Discussion with participant*

## 14<sup>th</sup> Asia Pacific Conference on the Built Environment

The 14th APCBE was held at Bali, Indonesia during 18th-19th Nov. 3 representatives from Singapore Chapter presented 3 papers at the conference. The APCBE played as a good platform for the chapters to communicate on the recent researches, studies and development in the field of built environment, continued to serving as a social and networking platform for ASHRAE members.



3 ASC members: Dr Junjing Yang, Dr George Xu and Mr Sriman attended the conference. Dr Junjing Yang presented 3 papers on the topics of “Analyzing occupancy based energy consumption and indoor environmental quality for an institutional building”, “Green roofs urban heat island mitigation potential in tropics for institutional buildings”, “Building energy data management for building energy efficiency”. Dr George Xu presented a paper on “CFD simulation of fan-assisted natural ventilation across hawker center”, And Sriman presented a paper which is co-authored with Rajesh Balachander on “Decentralizing sensible and latent loads for buildings in hot and humid climate for improved energy efficiency and space control – a performance simulation approach”.



*Dr. Junjing Yang*



*Mr. Sriman*



*Dr. George Yeo*

The APCBE Steering committee meeting was held in the early morning the second day. The meeting summarized the achievements of the 14<sup>th</sup> APCBE Meeting and discussed the next meeting which will be held at Taiwan in the year of 2021.



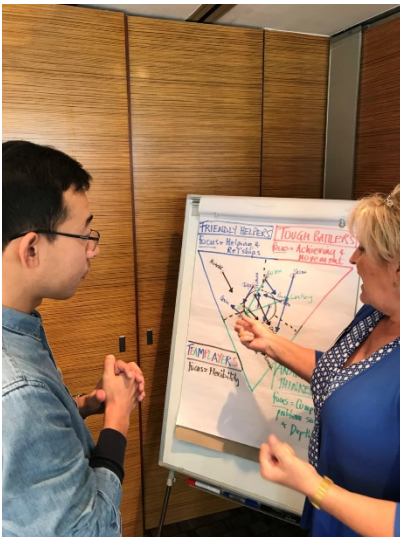
**Young Engineers in ASHRAE (YEA)**

ASHRAE YEA Leadership International (YLI) 2017 at Hong Kong was held from 08 Dec. 2017 to 10 Dec. 2017 with the attendance of young engineers from Singapore, Malaysia, Hong Kong, Macau, Taiwan, Mainland of China and the US.

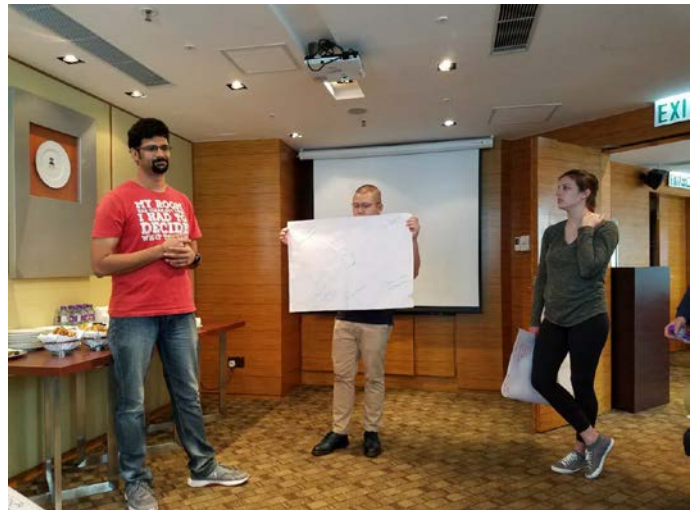
Two ASC members Mr. JP Wang and Mr. Sriman attend the wonderful networking event. People get connected during the 3 days to share experiences and perspectives with each other. Personal character is identified with the assistance of the facilitator Ms. Tricia Evans. Goals are set on future development. Group members are coached on how to become a leader who possesses the ability to influence and inspire others, towards the accomplishment of goals.



*Group Photo of ASHRAE YLI 2017 @ HK*



*Mr. JP Wang discussing the patterns of motivation with Ms. Tricia Evans*



*Mr. Sriman presenting personal goals and constraints with the group*



*Dining with participants*

## Student Activities

### Kaer Water Visit on Efficient Chiller Plant Design (August 2017):

ASHRAE Students from the Singapore Chapter along with ASHRAE student members from Region XIII had been on a half day study tour to Kaer Singapore office and to one of their Chiller plants at China Town Point to be part of a technical briefing on efficient Chiller plant design. The students were briefed on the current trends in air conditioning business models and how efficiency has been improved in the industry through the practices carried by Kaer.

The students had a great time in understanding the concepts on air conditioning design and further had many interesting questions to ask the presenters. Overall it was an informative and eye awakening visit for the students.



### Student Membership Outreach:

To improve the involvement of undergraduate engineering students into ASHRAE Singapore Chapter, a discussion with the Mechanical Engineering faculty from National University of Singapore Professor Daniel, was arranged through the efforts of the Prof Chandra Sekhar (Student Branch Advisor at NUS). The SA Chair along with the current Student President of the NUS student branch Mr Prashant Anand met Prof. Daniel on the 1<sup>st</sup> of December 2017. The briefing included the benefits of ASHRAE Singapore chapter, the student activities we have around the year and also on the student competitions and grants the students can apply for. The discussion was fruitful and it was decided to arrange an outreach to the students of Year 2 from Mechanical Engineering during one of the sessions lecture sessions in early 2017.

Republic Polytechnic Student Branch Discussion- On the 14<sup>th</sup> of December 2017, the SA Chair Mr Rajesh Balachander along with the Membership chair Ms Junjing met with the lecturers at Republic Polytechnic to discuss the feasibility of opening a student branch. The discussion involved on all the requirements for starting a new student branch, the benefits involved for students along with the roles of SBA in a student branch. The lecturers were interested in this initiative and were positive to get back to us on this after their discussion with their management in January 2018. Further from ASHRAE Singapore Chapter we informed them on the subsidy which we can offer to encourage starting of this new student branch.



## Upcoming Events

### February 2018

- a) Event: MP-RP Night and ASC CNY Celebration  
Date: 1 February 2018  
Time: 7:00pm – 9:00pm  
Venue: Singapore Polytechnic Graduates' Guild  
Guest Speaker: Prof. Mat Santamouris
  
- b) Event: ASHRAE DL - The New Legionella Standard: ANSI/ASHRAE 188-2015 and Legionellosis: Risk Management for Building Water Systems  
Date: 28 February 2018  
Time: 2:00pm – 5:00pm  
Venue: Singapore Polytechnic Graduates' Guild  
Speaker: Ms. Patricia Graef

### April 2018

- a) Event: ASHRAE DL - ASHRAE Building Energy Quotient (bEQ) and Retro-Commissioning for Energy Savings  
Date: 25 April 2018  
Time: 2:00pm – 5:00pm  
Venue: Singapore Polytechnic Graduates' Guild  
Speaker: Mr. Hoy Bohanon

### May 2018

- a) Event: ASHRAE DL - IAQ Issues and Filtration Technologies  
Date: 23 May 2018  
Time: 2:00pm – 5:00pm  
Venue: Singapore Polytechnic Graduates' Guild  
Speaker: Mr. Hoy Bohanon

### June 2018

- a) Event: ASHRAE DL - Clean Data Centre & Intelligent Buildings/Building Automation  
Date: 13 June 2018  
Time: 2:00pm – 5:00pm  
Venue: Singapore Polytechnic Graduates' Guild  
Speaker: Mr. Jim Vallort