

## Presidential Address

My fellow members of ASHRAE Singapore Chapter.

It is my great honor to come to assume the position of the President of ASHRAE Singapore Chapter.

Under the leadership of our outgoing President Dr. Yuichi Takamasa and ASC Office Bearers, Committee Chairs, ASHRAE Singapore Chapter engaged stakeholders of the Built Environment industries and related fields and strived to strengthen the connections between the members as well as young engineers and students of our 6 student branches. I'd like to take this opportunity to extend my heartfelt thanks to the outgoing BOG team for their effort and contributions to our chapter.



For the incoming term, our new BOG team and I will do our best to contribute to the members of Singapore Chapter and to help Singapore Chapter stay relevant and adjust to the new norms in the year ahead, based on the foundations that our past Presidents and BOG members have built so far.

Although with some negative impacts, the pandemic nonetheless has brought a learning opportunity for the industry to build a more resilient Built Environment. More attention and effort have been given to ventilation, indoor air quality and healthy built environment, which also aligns with the Society's theme this year: "Securing our Future".

As the local chapter of Singapore, We shall continue to leverage Relationships, Knowledge and Change to secure a better built environment; we shall continue engaging our members and local built environment industries by disseminating knowledge and information on the best practices via professional seminars and workshops; we shall continue embracing the culture of change, stay updated with new knowledge, technology and tools to help our members and the built environment industry to successfully navigate the rapidly changing world.

Lastly but not the least, to all ASC members, we thank you for your support to ASHRAE Singapore Chapter so far, as well as in the incoming term. My team and I look forward to contributing to the betterment of our chapter and ask you for any advice and suggestions, so please feel free to contact us by email or in person when necessary. I really look forward to seeing you in as many events as possible in the incoming term.

With this, I would like to wish all the best for you and that you stay safe, healthy and happy with your families.

Thank you.  
Yang Junjing  
President, 2022-2023  
ASHRAE Singapore Chapter

## Contents

Presidential Address	2
ASC 40 <sup>th</sup> Annual General Meeting	4
ASHRAE Singapore Chapter BOG Members 2022-2023	5
CRC 2022	8
40th Anniversary Dinner	9
Women in ASHRAE	11
ASC Student Performance Video for CRC 2022, Tokyo	12
ASC SA chair interaction with NUS BPS Students	12
Student Membership Sponsored from Industry	13
Meeting with Mumbai Chapter	14
ASHRAE Webinars	15
ASHRAE Singapore Chapter and IBPSA Singapore Joint Webinar on Human-Building Interaction	15
Oil Free Compressor Webinar on World Refrigeration Day	15
IBEW event	16
ASHRAE Certification	18
Why is earning the ASHRAE Certified HVAC Designer (CHD) credential the best way to gain a competitive edge?	18
How do I apply?	18
Upcoming Events	19
Social Media	19
Sponsor Companies	19

## ASC 40<sup>th</sup> Annual General Meeting

ASC 40th Annual General Meeting (AGM) was held on 03rd Jun 2022 with total thirty-five (35) members attendance out of a total of 172 eligible voting members. It met the minimum of 30 members as required as per Registry of Societies (ROS). Hon. Secretary reported the events organized by committees. Hon. Treasurer presented financial report and the income / expenditure for 2021-2022 and did a comparison to 2020-2021. Office Bearers, Honorary Auditors, Nominating Committee and its chairman for the term 2022-2023 were elected as well.











Dr Yang Junjing was announced as the Incoming President for the year 2022/2023 by the nominating committee. Following are the Office Bearers for term 2022/2023 that were elected:









PRESIDENT-ELECT	Praveen Hassan Chandrashekar
TREASURER	Ivan Liew
SECRETARY	Srimannarayana Nallani Chakravarthula Vamsi Krishna
IMMEDIATE PAST PRESIDENT	Yuichi Takemasa
BOARD OF GOVERNOR	Yeong Chang Cheng
BOARD OF GOVERNOR	Kwong Chin Liew
BOARD OF GOVERNOR	Francis Lee
BOARD OF GOVERNOR	Florence Chan
MYANMAR SECTION LIAISON	Guan Hou Heng
<b>CHAPTER COMMITTEE</b>	
MEMBERSHIP PROMOTION (MP) CHAIR	de Moran Farizan
REFRIGERATION CHAIR	Victor Tan
CHAPTER TECHNOLOGY TRANSFER (CTT) CHAIR	Dina Bai
STUDENT ACTIVITIES (SA) CHAIR	Gaurav Kumar
RESEARCH PROMOTION (RP) CHAIR	Zhi Yi Lim
GOVERNMENT ADVOCATE (GA) CHAIR	Syed Mubarak Abdul Razaak
CHAPTER ADMINISTRATOR	Patrick Ho
CHAPTER REGIONAL CONFERENCE COMMITTEE	Henry Seck Kan Yeo

Dr Yang gave a short speech as the Incoming President for 2022/2023. On behalf of the BOG, she gave thanks to the 2021/2022 team for their hard work and contribution to ASC throughout the year. She called for continuing support from members and well-wishers so that a stronger ASC could be built together.

ASHRAE Singapore Chapter BOG Members 2022-2023

	<b>President</b> <b>Name:</b> Dr. Yang Junjing
	<b>President-Elect</b> <b>Name:</b> Mr. Praveen Hassan Chandrashekar
	<b>Immediate Past President</b> <b>Name:</b> Dr. Yuichi Takemasa
	<b>Hon. Secretary</b> <b>Name:</b> Mr. Sriman Chakravarthula
	<b>Hon. Treasurer</b> <b>Name:</b> Mr. Ivan Liew
	<b>Chair, Membership Promotion (MP)</b> <b>Name:</b> Mrs. Farizan
	<b>Co-Chair, Membership Promotion (MP)</b> <b>Name:</b> Mr. Rajesh Balachander
	<b>Chair, Research Promotion (RP)</b> <b>Name:</b> Mr. Lim Zhi Yi

	<p><b>Chair, Chapter Technology Transfer Committee (CTTC)</b></p> <p><b>Name:</b> Ms. Dina Bai</p>
	<p><b>Co-Chair, Chapter Technology Transfer Committee (CTTC)</b></p> <p><b>Name:</b> Mr. Wang JiangPeng</p>
	<p><b>Chair, Student Activities (SA)</b></p> <p><b>Name:</b> Mr. Gaurav Kumar</p>
	<p><b>Chair, Young Engineers in ASHRAE (YEA)</b></p> <p><b>Name:</b> Mr. Hew Yoon Loong</p>
	<p><b>Co-Chair, Young Engineers in ASHRAE (YEA)</b></p> <p><b>Name:</b> Mr. Ho Weng Kin</p>
	<p><b>Chair, Government Affairs (GA)</b></p> <p><b>Name:</b> Mr. Syed Mubarak</p>
	<p><b>Co-Chair, Government Affairs (GA)</b></p> <p><b>Name:</b> Mr. Jeffrey Eng</p>
	<p><b>Chair, Webmaster &amp; Electronic Communications (EC)</b></p> <p><b>Name:</b> Mr. Gao Yuan</p>
	<p><b>Chair, Refrigeration</b></p> <p><b>Name:</b> Mr. Victor Tan</p>

	<b>Chair, Chapter CRC Action</b>  Name: Mr. Henry Yeo
	<b>Chapter Administrator</b>  Name: Mr. Patrick Ho
	<b>Chapter Historian</b>  Name: Mr. David Lau
	<b>BOG Member</b>  Name: Ms. Florence Chan
	<b>BOG Member</b>  Name: Dr. Peter Cheng
	<b>BOG Member</b>  Name: Mr. KC Liew
	<b>BOG Member</b>  Name: Mr. Francis Lee
	<b>Myanmar Section Liaison</b>  Name: Mr. Heng Guan Hou

## CRC 2022

ASHRAE Singapore Chapter President Dr. Yang Junjing, IPP Dr. Yuichi Takemasa, together with regional officers from Singapore Chapter Mr. CHENG WEE LEONG, Mr. Albert Sin, Ms. Florence Chan and Mr. Sivakumar Gadam attended the ASHRAE Region XIII CRC (Chapter Regional Conference) on site hosted by Japan Chapter. With representatives attending hybrid from Ten Chapters across the region and ASHRAE society President Mr Farooq Mehboob, President-elect Ms Ginger and Society Treasurer Mr. Dennis Knight, this conference is packed with technical seminars and then the business of the region.

Dr Yang has given a presentation on Chapter operation report for the past year and another presentation on Chapter activity plan for the coming year. Dr. Yang also suggested at the CRC for region 13 to continue discuss and explore the feasibility of set up a training centre for region XIII.

At the CRC, Ms Florence Chan and Dr David Edenburn were awarded Chapter Service award. Various chapter members were nominated for Distinguished Service Award, Exceptional Service Award, Chapter Service Award and Regional Award of Merit at CRC.



## 40th Anniversary Dinner

This year ASHRAE Singapore Chapter 40<sup>th</sup> annual dinner was held on 26<sup>th</sup> August 2022 at Orchard hotel Singapore. The guest of honour was Mr Leong Cheng Wee, Director and Regional Chair (DRC), ASHRAE Region XIII. The event marked a great significance of an in-person ASHRAE installation dinner, which provided an excellent opportunity to meet with the industry colleagues and friends. Dr King Yeong Jin, President ASHRAE Malaysia chapter attended the installation dinner.

The event began with an opening dance performance followed by welcome speech by the incoming President Dr Yang Jun Jing. The guest of honour Mr Leong Cheng Wee addressed the attendees with the keynote speech. This year, the Society's theme is "Securing Our Future". The president of ASHRAE Singapore chapter Ms Junjing Yang mentioned in her president's message that *"although pandemic impacted our lives and businesses over the past 2 years, pandemic nonetheless has brought a learning opportunity to build a more resilient Built Environment for future. We shall continue to leverage Relationships, Knowledge and Change to secure a better built environment and lead the chapter with Diversity, Equity, and Inclusion. We shall continue embracing the culture of change, stay updated with new knowledge, technology and tools to help our members and the built environment industry to successfully navigate the rapidly changing world"*.

ASC received an excellent support from the industry for the installation dinner and more than 700 people attended the event. The event raised total \$11,501 for the Research Promotion (RP) fund (\$4,251 through donation and \$7,250 through painting auction). ASC extended the sincere appreciation to all sponsors for their generous contribution towards the success of this year's installation dinner.







## Women in ASHRAE

Hi, ladies in the field of engineering, please look at the ladies in ASHRAE Singapore Chapter all having different reasons for joining and staying in the ASHRAE Society and Local Chapter. Find out what they say about ASHRAE and what it means to be an ASHRAE member, and join the ranks of those shaping the future of the built environment today.



## Women in ASHRAE

Engineering has often been cast as a male-dominated profession. But the truth is, engineering is for everyone. In general, women pay attention to detail, analyse situations and solve problems. All these interpersonal skills in combination with technical skills can help Built Environment industry as a whole. As such, we see the benefits of having more women to join the industry.

However, there are also challenges. That is the reason why it is particularly important for us to always support each other and reshape the industry.



**Dr. Yang Junjing**

**ASHRAE Singapore chapter president 2022-2023**

I joined ASHRAE during my PHD and the Great resources and Professional connections of ASHRAE have been supporting my career development for the past 8 years!

**Ms Farizan d'Avezac de Moran**

**Membership Promotion Committee Chair 2022-2023**

ASHRAE has been my go-to HVAC knowledge and resource . Working on sustainability development beyond tropical climate requires a firm grasp of trusted engineering dat. ASHRAE provided me with the support I need



**Ms Dina Bai**

**Chapter Technology Transfer Committee Chair 2022-2023**

Looking at my amazing female fellows in ASHRAE inspired me to reach out to more young female professionals in this field and make sure they know that there is a group of women in Built Environment industry who have similar experiences and could resonate with them.

**Ms Florence Chan**

**Member of Board of Governors**

**(Past President 2019-2020 and first Lady President of ASC)**

Historically women are often under-represented in engineering but joining ASHRAE has allow women to unlimited challenges and pave way for future generations of female engineers. Women in ASHRAE are a trendsetter encouraging more women to take up interest in engineering fields and to celebrate the accomplishments of female engineers.



## ASC Student Performance Video for CRC 2022, Tokyo

ASC student members, President and SA chair participated in making a 3 min video for the CRC 2022 Tokyo event. The theme of the video was to touch upon the changes in lives and working style post pandemic era. The video talks about how pandemic has affected our working styles and social interaction during the last 2 years and how Singapore as a nation has come out of it, and what could be the future post pandemic era. Students have shared their views on how they can now choose the place and their own comfort while working, and office is not the final destination to work. Hybrid work culture has arrived, and it is here to stay. The video also showcase the changes in ventilation and focus on health and wellbeing of the users to avoid any contamination and spread of disease.



Follow the link to the video: <https://www.youtube.com/watch?v=jK5W4J2cpzQ>

## ASC SA chair interaction with NUS BPS Students

ASC Student Activities chair Gaurav Kumar and student branch advisor Clayton Miller had an interactive session with the new batch of NUS Building Performance & Sustainability (BPS) programme about ASHRAE, benefits of being an ASHRAE student member and being part of HVAC, Engineering & Sustainability community. ASC will be working closely with the students for knowledge sharing, career development opportunities and networking.



## Student Membership Sponsored from Industry

ASC will be getting industry partners to sponsor the students for their membership. EBM-Papst SEA Pte. Ltd and IES Engineering Pte Ltd has agreed to sponsor students from institution in Singapore. EBM-Papst will sponsor 40 students and IES engineering will support 10 students.

ASHRAE SINGAPORE CHAPTER

And

EBM-PAPST SEA PTE. LTD.

---

STUDENT SPONSORSHIP AGREEMENT

---



ASHRAE SINGAPORE CHAPTER

And

IES ENGINEERING PTE. LTD.

---

STUDENT SPONSORSHIP AGREEMENT

---

The sponsorship will encourage students to join the ASHRAE and get familiarise with the industry updates, networking, career, and job opportunities. ASC thanks and appreciate the support from both sponsoring partners.

## Meeting with Mumbai Chapter

ASC President Dr. Yang Junjing and Mumbai Chapter President Ms Nivedita had an online meeting on 21<sup>st</sup> July to discuss potential collaborations. IPP of Mumbai Chapter Mr Mahesh and BOG member Mr Sanjay joined the meeting. Each chapter has shared their operations and plans for each committee. Both Presidents have connected respective committee chairs to discuss further potential joint events, especially for CTTC, SA, and YEA. Mumbai Chapter also shared their plan to have technical visit trip to Singapore. It was agreed to have regular online meetings between two chapters to exchange ideas and plan collaboration.



## ASHRAE Webinars

### ASHRAE Singapore Chapter and IBPSA Singapore Joint Webinar on Human-Building Interaction

On 11th August 2022, an educational webinar was conducted jointly by ASC and IBPSA Singapore. The webinar topic is on Human-Building Interaction, which focuses how occupants interact with buildings and the devices and functions inside. Our two distinguished speakers Dr. Clayton Miller and Dr. Choi Joon Ho have respectively shared the use of machine learnings in built environment and how bio-sensing environmental control research would substantially improve occupant comfort and wellbeing. In addition, both speakers have also addressed the questions from audience.

The session has drawn 55 attendees. This is the first joint webinar conducted by ASC and IBPSA Singapore and we will be expecting more collaborations between the two associations to further enhance industry learning and knowledge sharing.

The screenshot shows a webinar interface. On the left, there is a slide titled "Human-Building Integration for Enhancing Human Health and Environment" dated August 11, 2022. The slide features three circular diagrams and the name of Joon-Ho Choi, PhD, LEED AP, Assoc. AIA, Associate Professor of Building Science, Associate Dean of Research and Creative Work, Director, Center for Wellness in the Built Environment, School of Architecture, University of Southern California. On the right, there is a presentation slide titled "The Human Dimension: Human-Building Interaction using Wearables and ML Benchmarking" by Dr. Clayton Miller, National University of Singapore (NUS). A vertical sidebar on the far right lists participants: Joon Ho Choi, Joon Ho Choi, Yang Junjung, Yang Junjung, Adrian Cheong, and Adrian Cheong.

### Oil Free Compressor Webinar on World Refrigeration Day

To commemorate World Refrigeration Day, ASHRAE conducted a webinar on the 23<sup>rd</sup> June 2022. The topic was on Oil Free Compressors and the session was conducted by Scott Moorhouse, Director Sales & Marketing Asia for Danfoss Turbocor. The webinar essentially covered the current market situation and benefits for oil free compressors. It also described the reasons why the magnetic bearing technology stood out. This was also the first time the seminar was opened to other chapters in the region to participate in and had managed to garner the interest of some 30 over participants.

The screenshot shows a webinar interface. The main slide is titled "ASHRAE World Refrigeration Day Oil-Free Centrifugal Compressors" and features a large image of the Merlion statue in Singapore at night. The slide is part of a presentation with a table of contents on the left showing four sections: 1. ASHRAE World Refrigeration Day Oil-Free Centrifugal Compressors, 2. Centrifugal Chiller Evolution, 3. Oil-free Bearings for Centrifugal Compression, and 4. Oil-Free Market. On the right, there is a vertical sidebar with participant names: ASHRAE Singapore, Scott Moorhouse, and Scott Moorhouse. The interface also shows a search bar, a file menu, and a status bar at the bottom indicating "Slide 1 of 30" and "English (Australia)".

## IBEW event

ASHRAE Singapore Chapter was a supporting organization of IBEW Conference and we had a booth at IBEW exhibition to promote ASHRAE membership and to collect RP funds.

At the booth, a form board poster was put up to advise the benefit of ASHRAE membership. Same information with QR code connected to membership application page were handed out as flyers. A banner was put up to display various ASC activities over the past one year. The BOGs met with various interested industries and individuals and shared membership application method, connected RP funds through selling of old ASHRAE handbooks. A total of S\$295 RP funds has collected at the event.







## ASHRAE Certification

### Certified HVAC Designer (CHD)



More than 2,750 certifications have been earned by professionals who have demonstrated their knowledge and expertise in the HVAC&R industry. Gain a competitive edge by earning an ASHRAE certification in HVAC design.

The CHD certification validates competency to do the following:

Design HVAC systems to meet building/project requirements, including equipment, equipment sizing, load calculations, mechanical equipment room design, duct and piping design and layout, and develop HVAC plans for permit and construction.

### Why is earning the ASHRAE Certified HVAC Designer (CHD) credential the best way to gain a competitive edge?

In a recent "Industry Need" survey, ASHRAE Member respondents who influence the HVAC Designer hiring decision had this to say:

- ☑ HVAC Designer certification is a tool to identify competent new hire prospects (74%)
- ☑ It is a worthwhile professional development goal (82%)

HVAC Designers themselves agree that earning an HVAC Designer certification would be a "worthwhile professional development goal" (75%) and "help differentiate practitioners from their peers" (70%).

Earning the Certified HVAC Designer (CHD) certification will let your employer, peers and customers know that you have the knowledge, skills and abilities needed to get the job done, and position you for continued recognition and success.

### How do I apply?

CHD examination opens 3<sup>rd</sup> June at testing centers available worldwide. You must register for and take the examination within 90 days of 3<sup>rd</sup> June, which is 3<sup>rd</sup> September.

Visit [ASHREA Citification Webpage](#) for more details.



## Upcoming Events

(More details will be updated on [ASC Website](#))

7 October: RP-MP night with technical talk by Camfil on new WHO PM standards

26 October 2022 5 pm to 7 pm: ASC-IBPSAsg Joint webinar on Net Zero

16-18 November: ABS conference (ASC will be a supporting organization with a booth at the conference)

End of November: Bilateral meeting with MASHRAE

End of November: MEM-ASC joint seminar on Net ZERO/Decarbonization

Early December: DL talk ( subject to DL's availability)

## Social Media

Please click the icons below and follow our social media



We are glad to share that our followers on LinkedIn has increased by 282 people for the past two months!

## Sponsor Companies

(More details will be updated on [ASC Website](#))

We are pleased to announce that members can now advertise your company's information and products on our quarterly Newsletter.

Rates are:

Half-page S\$200-00

Full-page S\$350-00

Please kindly email Elta ([elta.ascsecretariat@gmail.com](mailto:elta.ascsecretariat@gmail.com)) for more information, thank you.

[End]