

Presidential Address

Dear ASHRAE Singapore Chapter Members,

First of all, I would like to thank you for your support for ASHRAE Singapore Chapter (ASC).

We will remember this year as a year greatly influenced by the COVID-19 pandemic. Actually, we had a very tough time because of the pandemic. ASC has not been able to conduct physical events so far in this term except for one seminar in December 2021. The ASC BOG (Board of Governors) meetings held each month were also online but fortunately we were able to have the last BOG meeting on 12 April 2022 physically for the first time in almost 2 years. I hope that from now on, we will be able to host more physical events, through which I believe we can provide ASC Members with more benefits.



I am pleased to report that ASC signed MOU with IBPSA Singapore (International Building Performance Simulation Association Singapore Chapter) in this term. We had a MOU Signing Ceremony in conjunction with the Sponsored Seminar on 16 December 2021. With this MOU, we can promote, facilitate, and extend professional and social links between ASC and IBPSA Singapore, to the benefit of members of both organisations. This MOU is also intended to advance and promote the mutual interest of ASC and IBPSA Singapore in joint seminars and courses.

In addition, ASC became Supporting Organization for BuildTech Asia 2021 in July 2021 and FMC 2022 (Facility Management Conference 2022) in March 2022. We had virtual booths at BuildTech Asia 2021 and 2022 to promote ASC activities, and introduced 2 speakers, who gave presentations on behalf of ASC in BuildTech Asia 2021 and FMC 2022 respectively.

As for CTT (Chapter Technology Transfer) activities, we had many webinars/seminars. We had 2 Distinguished Lecturer (DL) webinars, one jointly hosted by Malaysia and Singapore Chapters on 1 November 2021, and the other organized by the Region XIII on 14 April 2022, where the speaker was the current ASHRAE Society President Mr. Mick Schwedler. We had a technical webinar on refrigeration on 25 November 2021, with the title "The Use of Natural Refrigerants in Singapore Cold Stores". We also had 4 sponsored seminar/webinars on IAQ and new refrigerants on 16 July 2021, Air Filtration to fight with COVID-19 on 13 September 2021, Ultra Violet Germicidal Irradiation (UVGI) for HVAC systems on 16 December 2021, and on temperature monitoring using IR Thermometers on 22 April 2022. We provided ASC Members with an opportunity to attend the webinar organized by IBPSA Singapore on High Performance Building Design using CFD and Digitalisation on 25 March 2022. We plan to have DL Webinar on Net-Zero Hospitals on 20 May 2022. I hope that many members will participate in this coming webinar.

We will have Annual General Meeting (AGM) 2022 on 3 June 2022 (Fri). We are thinking of having a physical AGM this year. I hope that many ASC Members will attend the AGM. Also, we are preparing for ASC Annual Dinner planned on 26 August 2022 (Fri) for the first time in 3 years. As you know, ASC Annual Dinner is an important event for ASC to facilitate communications and networks among peers and friends in HVAC industry as well as academics. We are really looking forward to seeing many of you in these events.

Thank you again for your great support to better ASC activities. I wish you all the best to stay safe, healthy and happy with your families.

Yuichi Takemasa
President 2021-2022
ASHARE Singapore Chapter



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MOU between IBPSA Singapore and ASC

The MOU was signed by Dr. Yuichi Takemasa 2021-22 ASC President and Dr. Adrian Chong, President of IBPSA Singapore Chapter, via on site signature at ASC-IBPSA Singapore Chapter MOU signing ceremony on 16th Dec 2021 to further specify the path forward. The MOU Signing ceremony was held together with the sponsored technical seminar on UVGI for HVAC application by Mr. Francis Lee. The MOU agreement defines parameters by which ASC and IBPSA will work cooperatively to promote, facilitate, and extend professional and social links between ASC and IBPSA Singapore Chapter, to the benefit of members of both organisations and to assist in advancing the quality of engineering practice and building simulation world-wide. This MOU is also intended to advance and promote the mutual interest of the Parties in joint seminars and courses.

The MOU includes, but is not limited to, the following initiatives:

- Publication of technical papers in Parties' journals.
- Joint building simulation and building engineering related activities such as conferences, symposia, seminars, technical talks, courses, networking sessions and site visits.
- Marketing and promotion of events that are jointly developed or organised. About the International Ultraviolet Association



ASC Webinars and Seminars

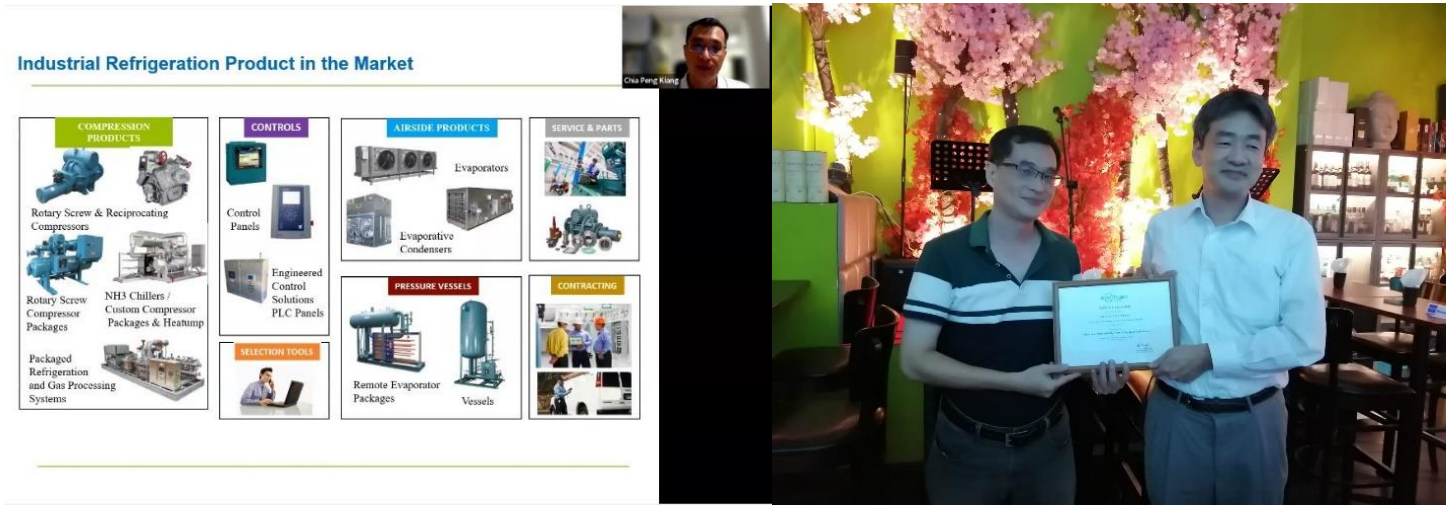
Refrigeration Webinar on 25 November 2021

ASC organized a Refrigeration Webinar, which was presented by Mr. Chia Peng Kiang, Growth Application Manager (Industrial Refrigeration), Johnson Controls Singapore Pte Ltd, on 25th Nov 2021.

The webinar focused on the basics of Industrial Refrigeration and how natural refrigerants, CO2 and NH3 are used for commercial applications. The webinar also covered the operation risks of Industrial Refrigeration could be mitigated with a further discussion on the application of NEA direction of HFC gas reduction.

In total, 24 participants from various industries attended the webinar.

Presentation of a Certification of Appreciation to the speaker, was done subsequently, in April 2022, when safe distancing measures were eased significantly.



Seminar: UVGI for HVAC Application on 16 Dec 2021

A physical seminar is hosted by ASHRAE Singapore Chapter in conjunction with Airverclean Pte Ltd on 16 Dec 2021 at SPPG, the presenter, Mr. Francis Lee, shared his knowledge on the following topics

Topic 1 - Sizing of UV-C Lamps to Desired Dosage

- ASHRAE's guidelines on UVC
- Lamp output in cold moving air
- Dosage calculation based on UVGI Handbook

Topic 2 - Effects of UVGI on Cooling Coil & Sizing to Meet Coil Surface Irradiance

- ASHRAE's recommendations for coil maintenance
- Coil Surface Mean Irradiance calculations based on UVGI handbook

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.

HVAC Designers

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

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





Upcoming Events

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

- DL Webinar on Net Zero Hospitals by Mr. Frank Mills: 20 May 2022 (Fri) 4:30pm-6pm
- Regional Planning Meeting 2 (RPM-2): 11-12 June 2022 (Sat-Sun) (Online)
- ASHRAE Singapore Chapter Annual General Meeting (AGM) 2022: 3 June 2022 (Fri) 6pm-9pm
- ASHRAE Region XIII 24th Chapters Regional Conference (CRC)
Hybrid Meeting
Waseda University, Tokyo, Japan
19 - 20 August 2022 (Fri-Sat)
- ASHRAE Singapore Chapter 40th Annual Dinner: 26 August 2022 (Fri) 6pm-11pm, Orchard Hotel Singapore



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) for more information, thank you.

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