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DRC’s Message



As we approach the second-half of the fiscal year, many activities and events heighten up. End of the year festivals, kids school term ending and holidays beginning, companies year-end accounts closing (and everyone anticipation of bonuses, pay increases, etc. would occupy our minds; not forgetting the forthcoming Winter Conference in Chicago 2024 for some.

Decarbonization, Sustainability, Net-Zero, Low GWP, Green-House effect, etc. are terms we have been constantly hearing and synonymous in our daily routines and workplans to achieve these goals. Wherever we are and whatever we do, we are all living in this world together and trying to make it a better place for our future, our children, future generation and all living on it. We are constantly challenging ourselves and all involved to make the world healthier, less resilient on fossil fuels, better in our planning and design of buildings, better utilization of materials and inevitably healing the world....

Our Society is also evolving and changing. There are new committees being formed; DEI, GTIC and Region Re-Structuring and Strategic Planning are some new work groups form to hold discussions on how to make the Society, the Regions more diverse, inclusive, equal, robust and efficient. There are also work groups to identify and provide solutions for Struggling/Weak Chapters and how to help them improve to get back on track.

I hope the Chapter leaders would review on their first-half performances and review their achievements so far. This would then identify what needs to be done to ensure meeting or surpassing their PAOE goals. I also urge the Chapter Leaders to start identifying their candidates for Region Officers whose terms are due to end June 2025. There are many good capable candidates for the various positions due for election in our Region. Their bio-data and manifesto should be distributed prior to the 27th CRC in Macao for the Chapter Delegates to get to know them better before the Caucus Session. This will also make it easier for the Chapter Delegates to discuss with their Board of Governors for a final decision rather than to make a personal choice at the last minute prior to casting their votes. As Dr. Ow Chee Seng has always advocated “the position seeks the person and not the person seeks the position”. May the better or best volunteers be elected!!!

Many thanks to Mr. Tuan Giang, the Vietnam Section Representative, for arranging our visit on 16 November 2023 in Ho Chi Minh City. The attendance was fantastic. All of us had an enjoyable time talking and sharing with the participants. We hope Vietnam Section would evolve and grow into a Chapter very soon.

As the end of 2023 approaches, I would like to wish everyone a Merry Christmas and a Happy New Year 2024. Take care and all the best to everyone !!!

Yours truly,

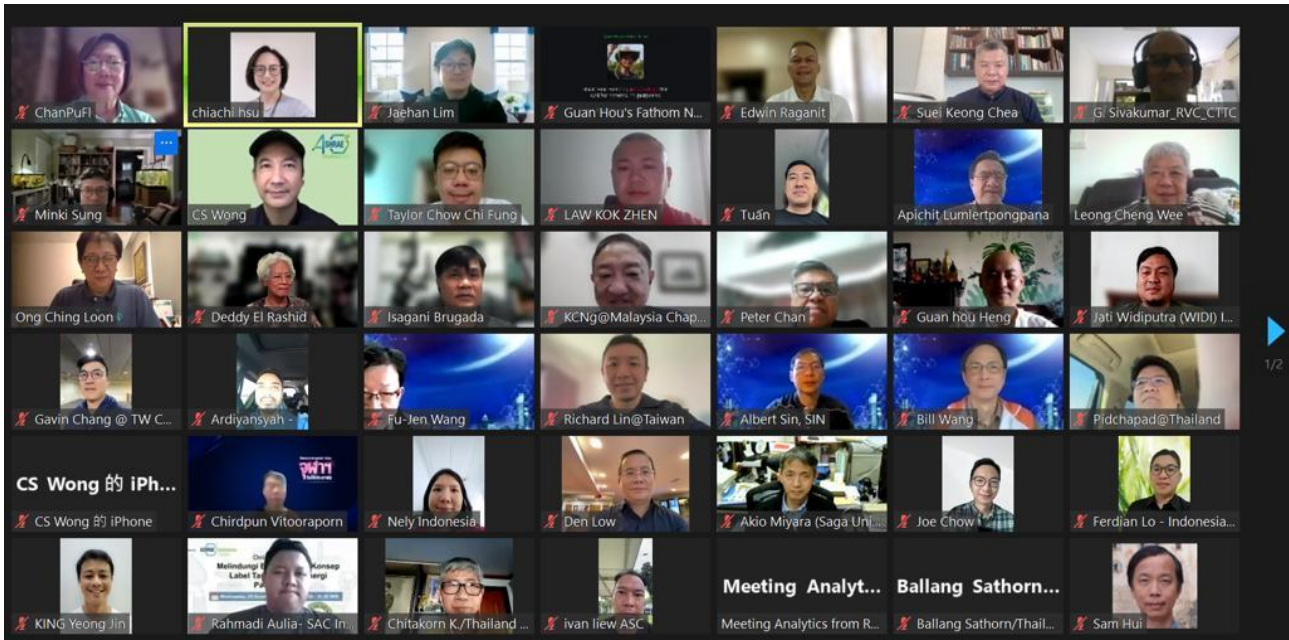


Leong Cheng Wee
 Director and Regional Chair (2022-25)
 ASHRAE Region XIII

ASHRAE Region XIII 2023-2024

Regional Officers, General Chairs, Committees, Chapter Delegates and Alternates

Director and Regional Chair	Leong Cheng Wee	Singapore Chapter
Assistant Regional Chair	Bill Wang	Taiwan Chapter
Region Members Council Representative	Ong Ching Loon	Malaysia Chapter
Regional Vice Chair for Chapter Technology Transfer	Gadam Sivakumar	Singapore Chapter
Regional Vice Chair for Membership Promotion	Sam Hui	Hong Kong Chapter
Regional Vice Chair for Government Affairs	Albert Sin	Singapore Chapter
Regional Vice Chair for Research Promotion	Chea Swei Keong	Malaysia Chapter
Regional Vice Chair for Student Activities	Wang Fu Jen	Taiwan Chapter
Regional Vice Chair for Young Engineers in ASHRAE	Lam Chak Mou	Macao Chapter
Regional Nominating Committee Member	Tracy Pang	Hong Kong Chapter
Regional Nominating Committee Alternate	Den Low	Malaysia Chapter
Regional Nominating Committee Reserve Alternate	Jojo Castro	Philippines Chapter
Regional Refrigeration Committee Chair	Ardiyansyah Yatim	Indonesia Chapter
Regional Historian / Conference Secretary	Ng Kah Choong	Malaysia Chapter
Regional Treasurer	Florence Chan	Singapore Chapter
Regional Electronic Communications Chair / Webmaster	Hsu Chia Chi	Taiwan Chapter
Regional Newsletter Editor	Wong Chun Sing	Hong Kong Chapter
Regional Representative (China)	Edward Tsui	Hong Kong Chapter
Region XIII Internal Auditor	Raymond Wong	Singapore Chapter
	Edward Tsui	Hong Kong Chapter
Chapters Regional Conference (CRC) General Chair 2023	Jeng Ming Shan	Taiwan Chapter
Chapters Regional Conference (CRC) General Chair 2024	Peter Chan	Macao Chapter
Chapters Regional Conference (CRC) General Chair 2025	Lim Jae Han	South Korea Chapter
APCBE Steering Committee Chair	King Yeong Jin	Malaysia Chapter
APCBE General Chair 2023	Ng Wen Bin	Malaysia Chapter
Chapter Delegate	Praveen Hassan Chandrashekar	Singapore Chapter
Chapter Alternate	Ivan Liew	Singapore Chapter
Chapter Delegate	Peter Lam	Hong Kong Chapter
Chapter Alternate	Taylor Chow	Hong Kong Chapter
Chapter Delegate	Tee Tone Vei	Malaysia Chapter
Chapter Alternate	Kozen Law	Malaysia Chapter
Chapter Delegate	Lin Hung Wen	Taiwan Chapter
Chapter Alternate	Gavin Chang	Taiwan Chapter
Chapter Delegate	Isagani G Brugada	Philippines Chapter
Chapter Alternate	Edwin Diga Raganit	Philippines Chapter
Chapter Delegate	Pidchapad Kidkirdsang	Thailand Chapter
Chapter Alternate	Pantuda Puthipiroj	Thailand Chapter
Chapter Delegate	Herlin Herlianika	Indonesia Chapter
Chapter Alternate	Ferdian Lo	Indonesia Chapter
Chapter Delegate	Junta Nakano	Japan Chapter
Chapter Alternate	Masayuki Ichinose	Japan Chapter
Chapter Delegate	Minki Sung	South Korea Chapter
Chapter Alternate	Lim Jae Han	South Korea Chapter
Chapter Delegate	Wong Seng Fat	Macao Chapter
Chapter Alternate	Vincent Wong	Macao Chapter



"Merry Christmas and A Happy New Year 2024" Virtual Celebration on 6 January 2024

List of ASHRAE Region XIII Past Director and Regional Chairs

Director and Regional Chair (1998-2001)	Vincent Tse	Hong Kong Chapter
Director and Regional Chair (2001-2004)	Raymond Wong	Singapore Chapter
Director and Regional Chair (2004-2007)	Ow Chee Sheng	Malaysia Chapter
Director and Regional Chair (2007-2010)	Robert Hu	Taiwan Chapter
Director and Regional Chair (2010-2013)	Wichai Laksanakorn	Thailand Chapter
Director and Regional Chair (2013-2016)	Edward Tsui	Hong Kong Chapter
Director and Regional Chair (2016-2019)	Ng Yong Kong	Malaysia Chapter
Director and Regional Chair (2019-2022)	Apichit Lumlertpongpana	Thailand Chapter

26th Chapters Regional Conference 2023 in Taiwan



Reported by
Dr. MS Jeng
CRC2023 General Chair



The 26th Chapters Regional Conference took place in Taichung on 18 and 19 August 2023, marking a return to entirely face-to-face meetings after a three-year hiatus due to the COVID-19 pandemic. The event, attended by various members, including Region XIII delegates, regional officers, students, sponsors, and other participants, ran smoothly, with a total of around 222 attendees—a fortunate number. We extend our sincere appreciation to the organizing members and all participants for their contributions to the event's success. Furthermore, we express gratitude for the presence of important society members, including Ginger Scoggins (Society President), Chandra Sekhar (Society Vice President), and Stephanie Reiniche (Staff Director), who visited Taiwan. The selection of Evergreen Laurel Hotel in Taichung as the venue was deliberate, aiming to create a vibrant atmosphere for our visiting delegates, friends from Region XIII, and ASHRAE USA staff. The venue's proximity to shopping malls, night markets, entertainment centers, and the city park added to the overall appeal of the conference.



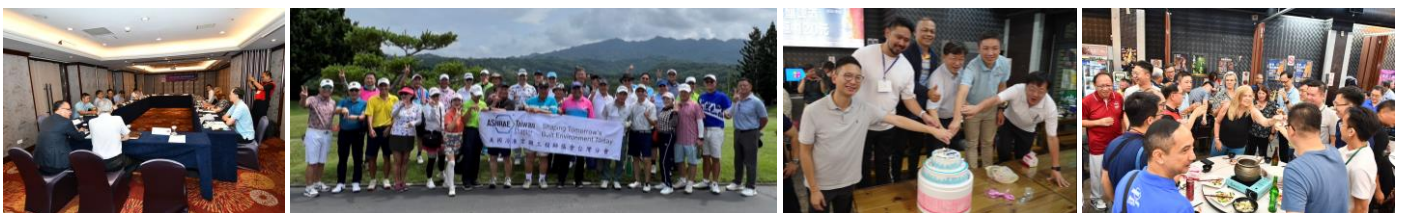
The conference commenced with the keynote presentation "Emerging HVAC Technologies for Energy Efficient Buildings in Hot and Humid Climates" by Professor Chandra Sekhar, enriching our understanding of the subject. The business session witnessed a fruitful exchange of opinions and insightful presentations from RVC and Chapters, marking significant progress in regional networking. The delightful conference atmosphere reflects the collaborative culture and camaraderie among all chapters.



At the Banquet Dinner on the night of the 19 August 2023, the charismatic and witty Dr. Weida Du served as the master of ceremonies, adding joy to the memorable evening. Welcome speeches were delivered by CRC general chair Dr. MS Jeng, AIT Dave Averno, and Region XIII DRC Leong Cheng Wee. A heartfelt commemorative video honoring Taiwan chapter old friends, Fellow Robert Hu, and Life member David Wang, set the stage for unforgettable performances by Region XIII students during the "Traditional Night" Banquet Dinner. The evening left every participant captivated.



Organizing an event of such magnitude demands not only human resources but also financial support to settle the substantial expenses associated with hosting an international gathering. Therefore, we extend our heartfelt gratitude to Hanbell Precise Machinery, Ho Tai Development, TRACEA, Yankey Engineering, Taiwan Hitachi, ITRI, Fusheng Industrial, Kruger Ventilation, Azbil Taiwan, Camfil, Karo's Industrial, Euroaire Ventilation, King Sun Industry, Smblime Technique, Horng Shiu, Taikkiso, Carrier Taiwan, Desiccant Rotors International, Sheng Yi Tech&Analytics, Kuen Ling Machinery, and Metropole Industrial for their generous contributions.



On 17 August 2023, a day before the CRC, ASHRAE's Industry Round Table convened. Various industrial members engaged in discussions about their current relationship with ASHRAE and shared expectations for the future. Additionally, the Pre-CRC Golf Outing at Taichung International Golf and Country Club provided an enjoyable prelude to the conference. A welcome party, hosted at a nearby stir-fried restaurant, coincided with the birthday of Taiwan Chapter President, Dr. Lin Hung Wen. The celebration included August birthdays from Region XIII. As hosts, our goal was to offer the best experience, allowing guests to immerse themselves in Taiwanese culture, cuisine, and hospitality. Your presence made this event historically significant and memorable. It's safe to say that the 26th Chapters Regional Conference was a resounding success.



1st Regional Planning Meeting (2023-24) in Taiwan

The first Regional Planning Meeting for 2023-24 was also organized in Taiwan after CRC on 20 August 2023 to discuss regional matters and its development.



17th Asia-Pacific Conference on the Built Environment in Malaysia



Reported by
Ng Wen Bin
APCBE 2023
General Chair

The 17th Asia Pacific Conference on Built Environment (APCBE 2023) was a resounding success on 3 & 4 November 2023, with 92 enthusiastic participants in attendance. The event commenced with a warm welcome from Ts. Ng Wen Bin, the APCBE Organizing Chair, and an insightful opening speech by Eng. Leong Cheng Wee, Director and Regional Chair (DRC) of Region XIII. The conference featured a dynamic program, including 46 paper presentations organized across three parallel sections.



Two distinguished keynote speakers added immense value to the event: Mr. Ryan Ooi Chean Weai - Ketua Penolong Pengarah Kanan, Department of Environment, Malaysia. His presentation titled "The Overview of Montreal Protocol Implementation in Malaysia" provided a comprehensive insight into Malaysia's efforts in implementing the Montreal Protocol. Luke Leung, P.Eng., Fellow ASHRAE, LEED® Fellow, BEMP - A Distinguished Lecturer. Mr. Leung presented two enlightening topics: "The New Carbon Standards: Net Zero Operational, Embodied, Whole Life and Upfront Energy (Carbon)" and "ASHRAE 241P – Pathogen Mitigation Standard Impacts to Future Office and Residential Design".



The parallel sessions allowed for a diverse range of discussions, fostering knowledge exchange and collaboration among attendees. The success of APCBE 2023 was attributed to the engaging presentations, insightful discussions, and the active participation of all attendees.



We extend our gratitude to the keynote speakers, presenters, and participants for making APCBE 2023 a memorable and enriching experience. Looking forward to continued success in future conferences. We also extend our deepest gratitude to the organizing committee whose dedication and hard work have brought us to this moment. Thank you for your tireless efforts in curating an enriching program and ensuring a seamless experience for all participants.



Group Photo of Welcome Dinner at Khan's Indian Cuisine on 2 November 2023



Reported by
Gadam Sivakumar
Regional Vice Chair
Chapter Technology Transfer

Chapter Technology Transfer Update

RXIII CTTC had completed the year 2022-23 with a good show from all chapters and started planning for the new year 2023-24 during the CRC 2023 with new CTTC chapter chairs.

CRC 2023 Taiwan: CTTC workshop has been attended by 8 chapters chairs and the planning and execution for the entire year has been discussed and communicated to all stakeholders

DL : Society allocation 12 and each chapter requested to host minimum one DL event and co-host one.

Tech awards: Japan and Hong Kong chapters won society level awards for 2022-23 and this year Singapore has entered the competition and request other chapters to follow up

PAOE : All chapters achieved PAR 1050 points for 2022-23 and the new year 2023-24 the PAR increased to 1500 and requested all chapters to achieve this year too.

CTTC Chapter Committees and follow up

DL events

- 12 DL Quota allocated by Society for the society year 2023-24.
- The following is the progress of the DL events planning and execution so far.

S. No	Host Chapter	Society allocated DL visit	Lecturer	Co-host Chapters / other Events
1	Taiwan	18th Aug 23	Dr. Chandra Sekhar	CRC 2023
2	Malaysia	7th Sep 23	Dr. Maarwa Zawari	Marvex MY/ Singapore 11Sep
3	Malaysia	3rd Nov 23	Luke Leung	APCBE MY/ 1 Nov24 Singapore
4	Hong Kong	9-10 Nov 23	William Bahnfleth	3 events in Hong Kong including meeting with Govt agencies
5	Philippines	9-10 Nov 23	Daniel Nall	Two events in Philippines
6	Philippines	5th Dec23	Robert Bean	Indonesia co-host on 7Dec23.
7	Hong Kong	8-10 Jan 24	James Vallort	Japan to co-host on 12th Jan
8	Thailand	11-Jan-24	Rupesh Iyengar	Thailand to arrange other meetings
9	Singapore	21st Feb 24	Dennis Knight	23rd Feb24 / Indonesia
10	Hong Kong	15-Mar-24	Chandana Dolugoda	Thailand to co-host
11	Hong Kong	8-17 Apr24	Terry L. Rodgers	Taiwan/South Korea to co-host.
12	Singapore	18-19 Apr24	Max Sherman	DL panel/AIVC event in Singapore



Taiwan Chapter – Chandra Sekhar



Malaysia Chapter – Maarwa Zawari



Singapore Chapter – Maarwa Zawari



Malaysia Chapter – Luke Leung



Singapore Chapter – Luke Leung



Hong Kong Chapter – William Bahnfleth



Philippines Chapter – Daniel Nall



ASHRAE Technology Awards

Regional Level Technology Awards 2023-24:

- Japan chapter won the regional level Technology awards competition in first and second place and Singapore chapter for honorable mention

First Place

Project Name: **Takasago Thermal Engineering Innovation Center**
Entrant: **Yuka Mutoh**
Building Owner: **Takasago Thermal Engineering Co., Ltd.**
Chapter: **Japan**
Category: **Category I – Commercial Buildings (New)**



Second Place

Project Name: **Obihiro-Kosei General Hospital**
Entrant: **Hiroki Yokoyama**
Building Owner: **Hokkaido Federation of Health and Agricultural Cooperatives**
Chapter: **Japan**
Category: **Category III – Health Care Facilities (New)**

Honorable Mention

Project Name: **SDE4 National University of Singapore**
Entrant: **Bertrand Lasternas**
Building Owner: **National University of Singapore**
Chapter: **Singapore**
Category: **Category II – Educational Facilities (New)**



- Regional Merit Certificates to Hong Kong and Singapore chapter for the following categories



Merit Certificate

Project Name: **Yue Man Square**
Entrant: **Ng Ngai Fai**
Building Owner: **Urban Renewal Authority**
Chapter: **Hong Kong**
Category: **Category I – Commercial Buildings (New)**

Merit Certificate

Project Name: **West Kowloon Government Offices**
Entrant: **Tony Ngan**
Building Owner: **Architectural Services Department**
Chapter: **Hong Kong**
Category: **Category II – Institutional Buildings (New)**



Merit Certificate

Project Name: **Retro-commissioning for Sha Tin Racecourse Grandstand following Air Conditioning Infrastructure Upgrades**
Entrant: **Wong Chun Sing**
Building Owner: **The Hong Kong Jockey Club**
Chapter: **Hong Kong**
Category: **Category II – Other Institutional (EBCx)**

Merit Certificate

Project Name: **SMU Connexion**
Entrant: **Joshus Heng**
Building Owner: **Singapore Management University**
Chapter: **Singapore**
Category: **Category II – Educational Buildings (New)**



Merit Certificate

Project Name: **SDE1 National University of Singapore**
Entrant: **Bertrand Lasternas**
Building Owner: **National University of Singapore**
Chapter: **Singapore**
Category: **Category II – Educational Facilities (EBCx)**

- Appreciate the efforts from Japan, Hong Kong and Singapore chapters for keeping the RXIII Flag flying high in the ASHRAE Global competition; wish that other chapters follow in their footsteps and start to prepare for the next year competition.

PAOE (Presidential Award Of Excellence)

- As Society measures the chapter level development/progress/ activities through PAOE points, chapters have been consistently following up with PAOE and the progress update for the RXIII PAOE points as of 23 November 2023 is captured below.

REGION XIII

2023-2024 Presidential Award of Excellence (As on 23 Nov 2023)

*Minimum and PAR points indicated are for 2023-2024

Chapter	Chapter Name	Memb Pro: Min 1000; PAR 1600	Stu Act Min 500; PAR 800	RP Min 800; PAR 1050	Hist Min 100; PAR 300	Comms Min 300; PAR 700	Chap Ops Min 600; PAR 1200	Chap Tech Tra Min 550; PAR 1500	Govt Aff Min 500; PAR 1000	Y E A: Min 300; PAR 800	Chapter PAOE Totals
142	SINGAPORE	1310	565	240	200	1145	1200	2300	700	1150	8810
143	HONG KONG	700	400	355	0	100	70	700	250	625	3200
149	MALAYSIA	400	1115	260	0	520	780	1830	750	825	6480
157	TAIWAN	500	90	400	250	1145	2230	400	450	425	5890
167	PHILIPPINES	2200	110	130	0	310	1510	700	800	1375	7135
170	THAILAND	150	20	175	0	0	560	200	150	175	1430
183	INDONESIA	1755	705	100	200	950	710	400	1350	1125	7295
194	JAPAN	250	45	0	0	0	150	200	0	300	945
195	SOUTH KOREA	325	205	100	0	0	70	300	0	50	1050
198	MACAO	75	50	60	0	0	10	300	150	625	1270

- For CTTC PAOE points Singapore and Malaysia chapters already achieved PAR status and Hong Kong and Philippines minimum. Request other chapters to follow up.

Decarbonization Drive Planning by RXIII

Following are some of the initiatives by RXIII to support Society Decarbonization drive.

**Decarbonization drive
DL events**

- DL events with multi-chapter visits
- DL meetings with Government agencies

**Decarbonization drive
YEA/CTTC / SA Joint
program**

Coordinate Society funded decarbonization projects competition 2023-24

**Tech Awards
Participation**

2022-23 : 2 chapters
2023-24 : 3 chapters

2024-25 : Get one more chapter to participate



Reported by
Albert Sin Yew Tek
Regional Vice Chair
Government Affairs

Government Affairs Update

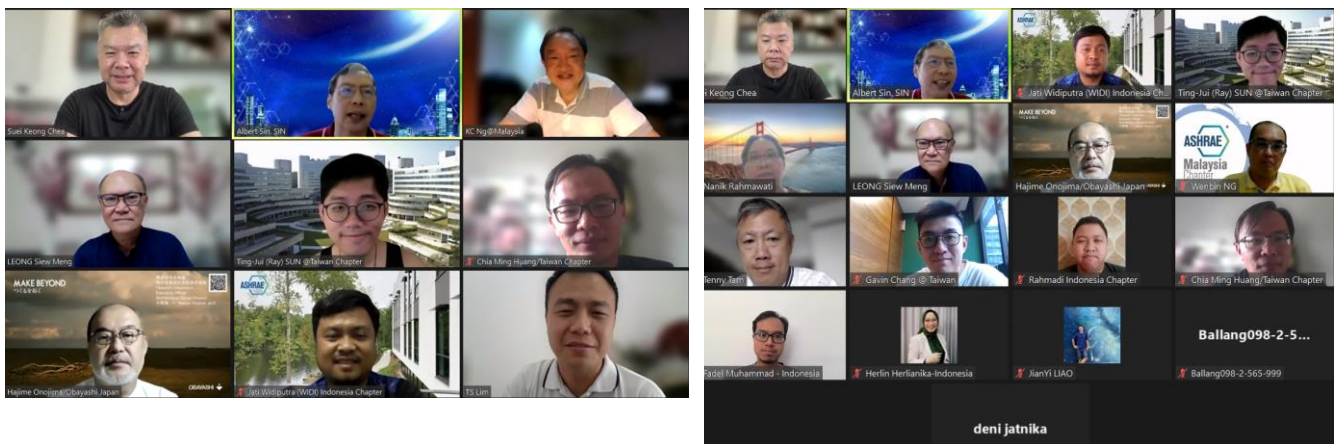
Region XIII CRC Training Workshop on ASHRAE’s Government Committee (GAC) was conducted on 19 August 2023 with 20 participants at Taichung CRC 2023. The participants had good sharing of their respective Chapters’ engagement with their countries government agencies and professionals through organized events.



Group photo GAC Workshop, Taichung CRC 2023

The GAC had followed up zoom meeting on 21 October 2023. Malaysia Chapter Mr Chea shared in details on the Malaysia organized events in governmental agencies and public educational sharing on HVAC subjects. For example;

Description	Organization	Date
HCFC Phase-out III Action Plan (HPMP III) Workshop	Department of Environment (DOE)	April, 2023
DOE Roadshow 2022-2023 : Ozone2Climate Technologies in Refrigeration and Air-Conditioning Sector	Department of Environment (DOE)	May, 2023
Technical Committee (TC) meeting on safety of household and similar electrical appliances (NSC 19/TC)	Department of Standards Malaysia, Ministry of International Trade and Industry	May, 2023



Government Affairs Committees virtual meeting, 21 October 2023

APCBE Steering Committee Update

Asia-Pacific Conference on the Built Environment (APCBE) Steering Committee

APCBE Steering Committee Chair (2023-26)	Dr. King Yeong-Jin	Malaysia Chapter
APCBE Steering Committee Secretary (2021-2024)	Mr. Michael Sung	Hong Kong Chapter
APCBE Steering Committee Member (2023-2026)	Mr. Suryanarayana Vamsi Krishna Nallani Chakravarthula	Singapore Chapter
APCBE Steering Committee Member (2022-2025)	Dr. Chang Chih-Chang	Taiwan Chapter
APCBE Steering Committee Member (2022-2025)	Dr. Thosapan Katejanekarn	Thailand Chapter
APCBE Steering Committee Member (2023-2026)	Dr. Ari Darmawan Pasek	Indonesia Chapter
APCBE Steering Committee Member (2021-2024)	Dr. Akio Miyara	Japan Chapter
APCBE Steering Committee Member (2022-2025)	Dr. Young Il Kim	South Korea Chapter
APCBE Steering Committee Member (2021-2024)	Mr. Peter Chan	Macao Chapter



Group photo taken after APCBE Steering Committee Meeting on 4 November 2023

All Mainland Property of LINK REIT with “Building EQ” Rating



Reported by
Kelvin Chan
Hong Kong Chapter

ASHRAE recently awarded Building EQ rating for all Mainland Property of LINK REIT, this is a remarkable step forward in building’s energy performance improvement. The projects included are listed as the table below:

Shopping Malls	Office	Logistics
Link Plaza · ZGC	Link Square	Changshu North Warehouse
Link Plaza · Jingtong		Changshu South Warehouse
Link Plaza · Guangzhou		Dongguan Warehouse
Link Plaza Tianhe		Foshan Warehouse
Link CentralWalk		Jiaxing Warehouse

All 11 projects, owned by LINK REIT, includes five shopping malls, one grade A mixed-use office building and five logistic projects. Locations of all projects cover Beijing, Shanghai, Guangzhou and Shenzhen, Dongguan, Foshan, Changshu and Jiaxing. The Link Plaza · Jingtong, with the best energy performance among 6 commercial projects, earned an In Operation Building Performance Score of 75, represents its building energy performance is 25% better than the world’s average performance in similar type of building with same climate zone.

Link decided to appoint a qualified third-party energy auditor, i.e. an ASHRAE certified Building Energy Assessment Professional (BEAP) to carry out the comprehensive energy audit and elaborate measures to further improve the energy performance for each project. The assessment and energy management work had been done under the supervision of MASHRAE, Stephen K.H Tam and BEAP, Kelvin C.K. Chan. Within 4 months on-site audit and data analysis, the team generated 11 energy audit reports in total which provide a comprehensive study of energy consumption for each of these projects. It is identified that although all commercial projects (including shopping malls and offices) can achieve average energy performance efficiency, there are still room for better energy saving opportunities for them. For logistic projects, they achieved efficiency energy performance except the project in Dongguan due to the cold storage warehouse. This will be the guidance for future sustainable operation and will also become the baseline for the future energy audit.

“It is such a good practice that to help any corporation to build up her own Enhancement Plan through Building EQ Rating Portal which can provide her a direct understanding of the current energy performance level in comparison of other buildings among the comprehensive databases. This can also contribute to the corporate decarbonization step and maintain the project sustainable”, Stephen said.

Hong Kong Chapter Highlights

Reported by *Peter Lam*, Hong Kong Chapter President 2023-2024



40th Anniversary Celebration Activities

This fiscal year marks the 40th Anniversary of Hong Kong Chapter. Celebration events are specially devised corresponding to the theme of this year – **Growth with Green Generation**. The meaning of the theme has two folds. Green culture extends to our daily life, as well as our work as an engineer that we build green and sustainable buildings and facilities, etc. Green also means youthful. We would like to bring the green message to our new generation. Thus, apart from our usual technical events for members, events specifically designed for secondary school students and general public are also organized.

The design competition of the 40th Anniversary Logo of the Chapter was organized in May 2023, which was open to all full-time students. The winner, Bella Ng, blends green features to our chapter name to form an incredible logo. Roadshows to secondary schools including Tin Ka Ping Secondary School and Cheung Sha Wan Catholic Secondary School were conducted on 11 and 15 November 2023 respectively. Students were introduced to climate change, green and sustainable design in buildings, and engineers’ role in this aspect, and finally how they can participate in it in their future career. Positive feedbacks are received from teachers and students. Our next roadshow to Cheung Chau Government Secondary School will be conducted on 17 January 2024.



Bella Ng, 40th Anniversary Logo Design Competition Winner receiving award from Dr. C.S Wong



Moka Lai presenting to students at Tin Ka Ping Secondary School



Taylor Chow presenting to students at Cheung Sha Wan Catholic Secondary School

40th Anniversary Exhibition was organized on 8 January 2024, which it was the first time that Hong Kong Chapter provided an exhibition opened for public to introduce Hong Kong’s success in green and sustainable buildings and our Chapter’s participation.



40th Anniversary Exhibition on 8 January 2024



In coming months, we will organize several events in the following to celebrate our 40th Anniversary of Hong Kong Chapter. Don't miss these to celebrate with us together!

- | | |
|-----------------------------------------------------------------------------------|-------------|
| 1. 40th Anniversary Logo Competition – Winner Announcement | 20 Jun 2023 |
| 2. 1st Roadshow (Tin Ka Ping Secondary School) | 11 Nov 2023 |
| 3. 2nd Roadshow (Cheung Sha Wan Catholic Secondary School) | 15 Nov 2023 |
| 4. 1st 40th Anniversary Exhibition | 08 Jan 2024 |
| 5. 3rd Roadshow (Cheung Chau Government Secondary School) | 17 Jan 2024 |
| 6. EMSD x ASHRAE HK Chapter: Technical Seminar + Technical Visit | 24 Feb 2024 |
| 7. Technical Conference 2024: Decarbonization Challenge for the Built Environment | 12 Apr 2024 |
| 2nd 40th Anniversary Exhibition | |
| 40th Anniversary Dinner | |
| 8. Regional Technology Awards Sharing cum Chapter Awards Presentation | 07 Jun 2024 |
| 3rd 40th Anniversary Exhibition | |

Activities organized by Chapter Technology Transfer and Chapter Programs Committees

Joint Technical Seminar on HVAC System Vibration Isolation Solutions on 6 September 2023



Mechanical vibration and vibration-induced noise are common sources of occupant complaints in all types of buildings. Most of this vibration is caused by reciprocation motion from HVAC equipment. The speaker, Joerg Hutmacher shared the appropriate solutions and systems to solve mechanical vibration and vibration-induced noise. He talked about the types of isolators, the correct isolator deflection based on equipment and floor span as well as the recommended type of base, successful case studies and some failures due to the wrong selection of isolation system. Finally, he also touched on terms such as Isolation Efficiency, Natural Frequency, Isolator Safety Factor and lateral Spring Stiffness.

Joint Comprehensive Certificate Course on HVAC&R System in Buildings from 17 October 2023 to 28 November 2023

There were totally 12 lessons for Comprehensive Certificate Course on HVAC&R System in Buildings jointly organized by ASHRAE Hong Kong Chapter, Building Services Operation and Maintenance Executives Society (BSOMES), The Chartered Institution of Building Services Engineers – Hong Kong Branch (CIBSE-HKR), The Hong Kong Air Conditioning and Refrigeration Association (ACRA) and The Hong Kong Institution of Engineers – Building Services Division (HKIE-BSD) that the course is designed to broaden knowledge of engineers in relation to Air Conditioning and Mechanical Ventilation Systems and is useful for young engineers and practitioners who want to refresh / acquire knowledge in the design, installation and maintenance of these systems. Our committee members, Cecil Man and Paul Wong acted as the speakers to share their knowledges with the topics of “ASHRAE Standard 135: BACnet and its Application in Hong Kong” and “ASHRAE Standard 170: Ventilation of Health Care Facilities and Case Study” respectively.



Cecil Man shared ASHRAE Standard 135: BACnet and its Application on 31 Oct 2023



Paul Wong shared ASHRAE Standard 170: Ventilation of Health Care Facilities on 2 Nov 2023



Joint Technical Seminar on Integrating Indoor Air Quality Air Quality and Energy Efficiency in Buildings on 8 November 2023

With over 200 participants attending the Joint Technical Seminar on Integrating Indoor Air Quality and Energy Efficiency in Buildings on 8 November 2023, Prof. William P. Bahnfleth was invited to share the significance of indoor air quality in terms of its impact on health and productivity and associated costs, the inseparable linkage between indoor air quality and building energy demands, including examples of efficient technologies for maintaining good indoor air quality, and the need for an approach to building research, design, and operation that recognizes this connection.



Distinguished Lecturer Program on 10 November 2023



This seminar was held on 10 Nov 2023, covering two topics related to the control of infectious aerosols in buildings. The first topic was ASHRAE Standard 241 shared by Distinguished Lecturer, Prof. William P. Bahnfleth providing guidance on the design, operation, and maintenance of HVAC systems to reduce the risk of airborne transmission of infectious diseases. The second topic was Advancing Airborne Pathogen Assessment and Control: Innovations in Building Ventilation Strategies talked by Ir Prof. Horace Mui, Associate Head and Professor of the Department of Building Environment and Energy Engineering at the Hong Kong Polytechnic University, delving into the crucial role of building ventilation in minimizing the airborne transmission of bioaerosols.

Joint Technical Seminar on Net Zero Energy Buildings on 24 November 2023

As building regulations around the world continue to impose energy targets to reduce carbon emissions and conserve fossil fuels, designers and contractors must provide buildings that can perform successfully with less energy aiming for Net Zero. The EU requires all buildings to be Net Zero by 2019, excluding plug and process loads, whilst the ASHRAE Board has proposed Net Zero including plug and process loads by 2030. On 24 November 2023, we invited Francis Mills, Principal of Frank Mills Consulting Ltd to share an overview of the issues involved and the potential design solutions to achieve Net Zero in a cost-effective, practical manner using feedback from exemplar solutions with over 200 engineering professionals.



Joint Technical Visit on Hang Seng Bank Headquarter on 29 November 2023

The Hang Seng Headquarters is a 30-storey building in Central that the Bank owns and uses as its main branch and office in Hong Kong. It has a total floor area of 379,380 sq. ft. and was completed in 1991. The building recently underwent a major makeover to create a lively and people-friendly workspace for its over 2,400 staff. The makeover included renovating eighteen floors, the podium garden on the 2nd and 3rd floors, and achieving the platinum level of LEED Scheme. Advanced E&M systems, such as low temperature chilled ceiling, Induction VAV, etc., were installed to improve human comfort, energy efficiency, resilience and ESG performance. This technical visit was co-organized with BSOMES and held on 29 Nov 2023. Participants were able to learn more about how the building implements ESG initiatives on E&M systems, workplace design and operation and maintenance.



Technical Visit to R•INNO on 9 December 2023



Over 20 participants joined the technical visit to R•INNO in REC Green Technologies Co., Ltd on 9 Dec 2023. R•INNO is a state-of-the-art facility that focuses on merging digitalization to engineering, AI video analytics solutions, and energy savings solutions by REC Green Technologies Co., Ltd. A range of products and solutions are offered by the company in the fields of AI and big data analytics, system automation, smart and energy-saving solutions, and innovative and green technologies. They provide energy-efficient products, power management and monitoring systems, building management systems, and solutions for both new and existing buildings. The company emphasizes research and development to offer energy-efficient solutions and contributes to the development of smart and green buildings.

Activities organized by Membership Promotion Committee

Membership Promotion to Students in The Hong Kong Polytechnic University (PolyU) “BEE Engineer Pop-Up” on 5 Oct 2023



Membership Promotion to Students in Asian Institute of Built Environment (AIBE) on 11 October 2023



Activities organized by Research Promotion Committee

Research Promotion (RP) Walk on 11 November 2023

ASHRAE RP Walk has been organized for 14 years since 2010. The 2023 RP walk having 3-kilo metre route, took place at Tai Lam Chung Reservoir Main Dam with 22 members including Distinguished Lecturer, Prof. William P. Bahnfleth to join. Beginning in 1951, the construction of Tai Lam Chung Reservoir marked the first post-war water storage facility in Hong Kong. This ambitious project entailed the construction of a significant main dam within Tai Lam Country Park. The grandeur of this concrete structure was unparalleled in Hong Kong at that time, leaving a lasting impression on observers. Standing tall at a height of 150 feet above the lake, the reservoir showcases an impressive network of pipelines that extend across the entire Kowloon Peninsula, seamlessly connecting with the extensive water supply network serving the entire territory. We would like to thank all the participants and donors to support and contribute to ASHRAE Research, we raised USD18,641 through this event.



Activities organized by Student Activities Committee

Joint Student Branches Annual General Meeting on 4 November 2023

On 4 Nov 2023, Student Branches of PolyU, CityU, HKU, IVE, HKUST and THEi had successfully handed over to the new student branch presidents of year 2023 – 2024 in AGM. Hong Kong Chapter always continues to support students by providing various technical visits, technical seminars, study tours, networking opportunities, etc. We would also like to appreciate the hard work from student branch advisors and thank you for their supports. We hope to see more students to participate in our upcoming events.



Joint Student Branches Career Talk on 21 December 2023

Joint Student Branches Career Talk 2023 was held successfully on 21 Dec 2023. We invited speakers from various engineering fields including Client, Contractor, Consultant, Facilities Management, Project Management, and Supplier to give an insight to the students on their available future careers as an engineering student.



Activities organized by YEA Committee

Over the past few months, we organized a diverse range of events, including Technical Visit, Fun Workshop, Networking Event, and Joint Societies Event. These gatherings provided unique opportunities for learning, networking, and collaboration within our vibrant community. We are delighted to share that an impressive more than 100 members actively participated in these events, contributing to their tremendous success. Let's dive into the highlights of these remarkable experiences.

Technical Visit to AIRSIDE on 1 August 2023

On 1 Aug 2023, our YEA members had the privilege of visiting the sustainable green lifestyle landmark, AIRSIDE. This visit provided a unique opportunity to witness Environment, Social, Governance (ESG) practices in action. Participants engaged directly with industry professionals, explored the facility, and gained valuable insights into the latest advancements in our field. The event was a tremendous success, fostering learning, networking, and inspiration among attendees.



Networking Event - Boardgame Extravaganza on 26 August and 24 November 2023

We kicked off the networking series with an unforgettable Boardgame Extravaganza on 26 Aug and 24 Nov 2023. It was an evening filled with laughter, friendly competition, and the chance to build meaningful connections with fellow YEA members. Through the joy of board games, attendees had the opportunity to relax, unwind, and forge lasting relationships within our vibrant community.



Fun Workshop - Local Draft Beer Factory Visit with Beer Tasting on 22 September 2023

For beer enthusiasts among our YEA community, we organized an exciting workshop that included a visit to a local draft beer factory. Participants had the chance to explore the beer-making process firsthand, guided by experts in the field. The workshop concluded with a delightful beer tasting, where attendees savored a variety of flavors while discussing the science and technology behind brewing.



Joint Societies Event – Round the World with 6 Wines on 27 November 2023

Continuing the collaborative spirit, YEA members, Young Professional of International Facility Management Association (IFMA) and Young Architects from the American Institute of Architects (AIA) came together for a captivating Joint Societies Wine Tasting. This event proved to be an excellent opportunity for interdisciplinary networking, as attendees explored the world of wine while exchanging insights and experiences. The occasion served to strengthen professional relationships and foster a deeper understanding of the built environment.



Joint Societies Christmas Party On 1 December 2023

As the holiday season approached, YEA members joined forces with other professional societies for a memorable Joint Societies Christmas Party on 1 Dec 2023. This festive event brought together professionals from various disciplines, allowing for cross-pollination of ideas and fostering a sense of unity among industry peers. The cheerful ambiance, delicious food, and engaging conversations made it an enchanting evening for all.



Hong Kong Joint Symposium 2023: " Shaping the Future: Trends and Insights for Tomorrow Technologies Development in Greater Bay Area "

The iconic Hong Kong Joint Symposium 2023 was successfully held on 22 November 2023. Jointly organized by ASHRAE Hong Kong Chapter, The Hong Kong Institution of Engineers (HKIE) – Building Service Division, the Chartered Institution of Building Services Engineers (CIBSE) Hong Kong Region and Department of Building Environment and Energy Engineering of The Hong Kong Polytechnic University, it has been years that we work together to provide a platform for engineers in the field to share innovative ideas and exchange practical experiences regarding building services and design.



With the theme “Shaping the Future: Trends and Insights for Tomorrow Technologies Development in Greater Bay Area” this year, we were privileged to have overseas speaker from CIBSE President-Elect, Ms. Fiona Cousins joined us as the Guest of Honor and delivered a refreshing speech to kick off the Symposium. Followed by our ASHRAE Distinguished Lecturer Francis Mills presented his paper. In addition, Francis also delivered keynote speech in the pm session before other pm session speakers presented their paper. We are grateful for the contribution from all the speakers & authors to share their research and studies in the symposium to enhance our professional skills and technical knowledge to further develop our city to meet the target of achieving carbon neutrality before 2050.



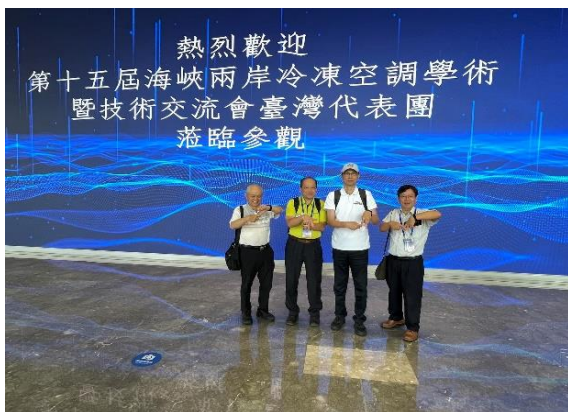
Taiwan Chapter Highlights

Reported by *Lin Hung Wen*, Taiwan Chapter President 2022-2024



15th Cross-Strait Academic and Technical Exchange Conference on Refrigeration and Air Conditioning from 29 August to 3 September 2023

Due to the impact of the pandemic, the Cross-Strait Academic and Technical Exchange Conference on Refrigeration and Air Conditioning, which had been interrupted for many years, was grandly held this year in Qingdao, China. ASHRAE Taiwan Chapter participated as a co-organizer of the conference, with many of its members attending to present papers. This has revitalized the exchange in the HVAC industry between the two sides of the strait.



ASHRAE Standard 90.1 Introduction Course on 16 September 2023

The ASHRAE Std.90.1 Introduction Course made its debut in Southern Taiwan at National Kaohsiung Normal University. The attendance exceeded expectations, with nearly 50 participants, including professional engineers, technicians, consultants, students, and equipment vendors. ASHRAE life member Mr. Bill Wang and Executive Director Mr. Stan Ho provided in-depth insights into the HVAC system design within the ASHRAE Std. 90.1, practical applications of the standard in green building case studies, and concluded with an overview of the design concepts for large-scale data centers. The course was rich and engaging, leaving participants with a fruitful learning experience.



ASHRAE Standards applied to High-efficiency buildings and large scale data centers seminar & ASHRAE MP/RP Night on 1 December 2023

In the digital age, cloud data centers play a crucial role. This seminar focuses on the expertise of industry and academia, sharing insights into the application of ASHRAE 90.1, 90.4 HVAC design, and the utilization of ASHRAE standards in the analysis of cloud data center design and high-efficiency building envelope design. In the evening, the ASHRAE Taiwan Chapter held its year-end MP/RP Night, attracting nearly 100 representatives from businesses and ASHRAE members. During the banquet, there was an introduction to the reasons for organizing RP activities and conducting RP fundraising, as well as the introduction of new members. The event was lively and engaging.



Upcoming Event

ASHRAE Taiwan Chapter 35th Anniversary Banquet

Date: April 27th, 2024

Venue: Great Skyview (13F., No. 101, Bangka Blvd., Wanhua Dist., Taipei City)

Welcome to celebrate with us!



Philippines Chapter Highlights

Reported by *Isagani G Brugada, Philippines Chapter President 2023-2024*



Induction of Executive Officers & Committees and Golf Tournament



Board of Governors, Executive Officers and Committees



ASHRAE Golf Tournament

ASHRAE BOG Meeting, Officers and Committee Orientation



ASHRAE XIII Regional Conference Taiwan 2023



ASHRAE Philippines 26th Chapter Conference Chapter Taichung, Taiwan

ASHRAE REGION XIII CHAPTERS REGIONAL CONFERENCE
26th Annual Meeting
November 13-15, 2023
Taichung, Taiwan

Technical Session on Data Center Technology Application in M&A and Hotel Client

Session Chair: Isagani G. Brugada, ASHRAE Philippines Chapter President

Panelists: [List of panelists and their affiliations]

Topic 1: Energy Efficient Technology for Energy Efficient Buildings and Data Centers. Data centers are becoming a major energy consumer. The challenge is to reduce the energy consumption of data centers. This session will focus on the latest technologies and practices to reduce energy consumption in data centers.

Topic 2: Energy Efficient Technology for Energy Efficient Buildings and Data Centers. Data centers are becoming a major energy consumer. The challenge is to reduce the energy consumption of data centers. This session will focus on the latest technologies and practices to reduce energy consumption in data centers.

Topic 3: Energy Efficient Technology for Energy Efficient Buildings and Data Centers. Data centers are becoming a major energy consumer. The challenge is to reduce the energy consumption of data centers. This session will focus on the latest technologies and practices to reduce energy consumption in data centers.

Topic 4: Energy Efficient Technology for Energy Efficient Buildings and Data Centers. Data centers are becoming a major energy consumer. The challenge is to reduce the energy consumption of data centers. This session will focus on the latest technologies and practices to reduce energy consumption in data centers.



ASHRAE PH Chapter and Government Construction
Manpower Development Fund MOA Signing



ASHRAE Executive Officers and Committee
Monthly Meeting



Technical Seminars on Building Decarbonization



Chapter Technology Transfer
Presents seminar on
**"Challenge Accepted: Philippines Pathway
to Building Decarbonization"**

Date: October 04, 2023 (Wednesday)
Time: 12:00NN - 5:00PM
Venue: Philippine Columbian Association, PCA Complex, Plaza
Dilao, Canonigo St., Paco, Manila
Registration fee: Php 300.00 Non-members,
Php 100.00 for Members

Topic 1: Engr. Francis Guevara: Strategies for Net Zero Buildings
Topic 2: Arch. Mei Punsalan: Build a Decarbonization Roadmap for
commercial buildings



ASHRAE Membership Centralized Training 2023, Sri Lanka



Membership Promotion Training Delegates from Region XIII



Chair Jelai Clemente and Co-Chair Juster Guidotong
Membership Promotion Philippines Delegates

Oktoberfest & Decarbonization Refrigeration Systems Seminar



OCTOBERFEST: UNLEASH THE BREW & DECARBONIZING REFRIGERATION SYSTEMS: EFFICIENT DESIGN TECHNOLOGIES

Study hard, but party harder! Gather on the most anticipated Oktoberfest and Refrigeration Technical Seminar and gain knowledge on efficient and effective Refrigeration Systems exclusively from the experts!

Topics:

- Tropical Refrigeration Design Guide Strategies to Maximize Energy Efficiency in Cold Storage Facilities
- Ventilation Systems for Cold Storage Facilities

Friday, 1:00 - 8:30pm
20 Oct 2023
Formosa Hall of The Architectural Centre Club Makati

OUR SPEAKERS:

- Engr. Cesar Luis Lim
- Engr. Arnold Gabuya
- Engr. Dominador Gomez Jr.



Challenged Accepted: Philippines Pathway to Building Decarbonization

November 9, 2023
SMX Convention Center, Pasay City

Decarbonizing the Future
Engr. Cesar Luis Lim, P.E.

HVAC System in Sustainable Built Environment
Engr. Emmanuel C. Punsalan, P.E.

Building Service Systems for Building Decarbonization
Ar/Engr. Daniel Nall

Registration: 1000
Deadline for Registration: November 7, 2023



Technical Seminars on Decarbonization

Technical Seminar: DECARBONIZING THE FUTURE

November 09, 2023 | 1:00PM to 5:00PM
Meeting Rooms 2 & 3
SMX Convention Center, Pasay City
ASHRAE Members: Php 500
Non-Members: Php 1,000

ENGR. MANNY PUNSALAN
ASHRAE PHILIPPINES SPEAKER

Technical Seminar: The Advance Energy Design Guide for Zero Energy Office Buildings

November 09, 2023 | 1:00PM to 5:00PM
Meeting Rooms 2 & 3
SMX Convention Center, Pasay City
ASHRAE Members: Php 500
Non-Members: Php 1,000

AR/ENGR. DANIEL NALL
ASHRAE PHILIPPINES SPEAKER

Technical Seminar: DECARBONIZING THE FUTURE

November 09, 2023 | 1:00PM to 5:00PM
Meeting Rooms 2 & 3
SMX Convention Center, Pasay City
ASHRAE Members: Php 500
Non-Members: Php 1,000

ENGR. CESAR LIM, P.E.
ASHRAE PHILIPPINES SPEAKER

PHILIPPINE GREEN BUILDING INITIATIVE

Green Breakthroughs in collaboration with Philippine Green Building Initiative 2023

ASHRAE Philippines Chapter



ASHRAE Philippines Chapter
Fellowship Night with Industry Experts



Online Technical Seminar

ASHRAE Philippines Chapter

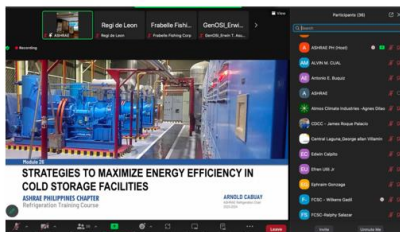




Table Talk Series



Outreach Program for Bahay Aruga - A Free Halfway House for Pediatric Cancer Patients



ASHRAE Golf – Swing for a Cause



ASHRAE Gala Night and Technical Seminars



ASHRAE Gala Night and Technical Seminars



ASHRAE Participation to the Government Initiatives – ISO/TC 209



dti TRABAHO
NAG-AGAP
KONSUMER

23 September 2023

ENGR. SALVAN S. BRIGADA
President
ASHRAE Philippines Chapter
UNIT 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
E-mail: ashrae.philippines@dti.gov.ph

Attention: Engr. Desiderio M. Castro
Engr. Cesar Luis Lim
Engr. ...

Dear Engr. Brigada:

The Bureau of Philippine Standards (BPS) will be hosting the 35th Plenary Meeting of the ISO Technical Committee on Cleanrooms and associated controlled environments (ISO/TC 209) and its Working Groups. This will be held on 04-08 December 2023, at the **Manila Convention Center, located at 114 Legaspi Street, Legaspi Village, Manila City, Philippines 1001.**

Attention: Engr. Desiderio M. Castro
Engr. Cesar Luis Lim
Engr. ...

Dear Engr. Brigada:

The Bureau of Philippine Standards (BPS) will be hosting the 35th Plenary Meeting of the ISO Technical Committee on Cleanrooms and associated controlled environments (ISO/TC 209) and its Working Groups. This will be held on 04-08 December 2023, at the Manila Convention Center, located at 114 Legaspi Street, Legaspi Village, Manila City, Philippines 1001.

ISO Technical Committee meetings bring together experts to share knowledge and develop voluntary consensus-based, member representation standards that support innovation and contribute to global challenges. As one of the 25 Philippine Member Countries of ISO/TC 209, the Philippines has the responsibility to participate in the meetings, committees and vote on all standards being considered by the said technical committee.

Given the organization's significant role as a member of the ISO/TC 209 Technical Committee on Cleanrooms and associated controlled environments (ISO/TC 209), which serves as the National Member Country of ISO/TC 209, we invite you to participate in the aforementioned ISO/TC 209 meetings.

Attached to your reference are the invitation and draft agenda for the 35th Plenary Meeting of ISO/TC 209. Other meeting documents will be provided as soon as we receive them from the ISO/TC 209 Secretariat.

We would appreciate receiving your confirmation on or before 10 October 2023.

Thank you.

Sincerely,
Engr. ...
Engr. ...
Engr. ...

cc: ...
cc: ...
cc: ...

cc: ...
cc: ...
cc: ...

Courtesy Visit - ASHRAE Industry Partners



Supreme



Daikin Philippines



Panasonic Philippines



Issivents



LG Philippines

ASHRAE Philippines 2023-2024 BOG, Executive and Committee Officers

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	 RODETTE ASTORIANO	 LUCIA LIMSON	 FORTUNATO DE VANTES	 FRITZIO MENDONILLA	 REGINALD DE LEON	 FRANCIS GUEVARA	 ARNOLDO CABUY	
	 MARK SALVADOR	 DOMINADOR CASTRO	 CESAR LUIS LIM	 MARK MANUEL	 GIOVANNI MENDOZA	 EMEBITO PUNSALAN	 MARK CUSTODIO	



Thank you