Content

DRC’s Message ............................. 1
ASHRAE Region XIII 2022-2023 Regional Officers, General Chairs, Committees, Chapter Delegates and Alternates ........................ 2
List of ASHRAE Region XIII Past Director and Regional Chairs ..................................... 3
26th Chapters Regional Conference 2023 in Taiwan ......................................................... 4
1st Regional Planning Meeting (2023-24) in Taiwan .......................................................... 6
17th Asia-Pacific Conference on the Built Environment in Malaysia.............................. 7
Chapter Technology Transfer Update --- 9
Government Affairs Update ......................... 12
APCBE Steering Committee Update --- 13
All Mainland Property of LINK REIT with “Building EQ” Rating ................................. 14
Hong Kong Chapter Highlights ................... 15
Taiwan Chapter Highlights ....................... 22
Philippines Chapter Highlights ................... 24

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

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.


Reported by
Ng Wen Bin
APCBE 2023
General Chair
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
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.

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

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.

<table>
<thead>
<tr>
<th>Chapter Name</th>
<th>PAOE Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>SINGAPORE</td>
<td>8810</td>
</tr>
<tr>
<td>HONG KONG</td>
<td>3200</td>
</tr>
<tr>
<td>MALAYSIA</td>
<td>6480</td>
</tr>
<tr>
<td>TAIWAN</td>
<td>5890</td>
</tr>
<tr>
<td>PHILIPPINES</td>
<td>625</td>
</tr>
<tr>
<td>INDONESIA</td>
<td>7135</td>
</tr>
<tr>
<td>JAPAN</td>
<td>945</td>
</tr>
<tr>
<td>SOUTH KOREA</td>
<td>1050</td>
</tr>
<tr>
<td>MACAO</td>
<td>1270</td>
</tr>
</tbody>
</table>

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

Decarbonization drive

YEAs/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
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.

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:

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

Group photo GAC Workshop, Taichung CRC 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
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:

<table>
<thead>
<tr>
<th>Shopping Malls</th>
<th>Office</th>
<th>Logistics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Link Plaza · ZGC</td>
<td>Link Square</td>
<td>Changshu North Warehouse</td>
</tr>
<tr>
<td>Link Plaza · Jingtong</td>
<td></td>
<td>Changshu South Warehouse</td>
</tr>
<tr>
<td>Link Plaza · Guangzhou</td>
<td></td>
<td>Dongguan Warehouse</td>
</tr>
<tr>
<td>Link Plaza Tianhe</td>
<td></td>
<td>Foshan Warehouse</td>
</tr>
<tr>
<td>Link CentralWalk</td>
<td></td>
<td>Jiaxing Warehouse</td>
</tr>
</tbody>
</table>

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.
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.

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.
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
8. Regional Technology Awards Sharing cum Chapter Awards Presentation 07 Jun 2024
9. 2nd 40th Anniversary Exhibition
10. 40th Anniversary Dinner
11. 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 jointed 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.
Joint Technical Seminar on Integrating Indoor 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) “BEEE 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 Distinguish 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

ASHRAE Golf Tournament

Board of Governors, Executive Officers and Committees

ASHRAE BOG Meeting, Officers and Committee Orientation

ASHRAE XIII Regional Conference Taiwan 2023
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

Presented seminar on “Challenge Accepted: Philippines Pathway to Building Decarbonization”

Date: October 25, 2023 (Wednesday)
Venue: Golden's Hotel

Event Details:
- Discussion on strategies for building decarbonization
- Networking opportunities for professionals

Registration Fee: PhP 2,500 for members, PhP 3,000 for non-members

Topics:
- Zero Energy Buildings for a Sustainable Future
- Decarbonization Strategies for Commercial Buildings
ASHRAE Membership Centralized Training 2023, Sri Lanka

Membership Promotion Training Delegates from Region XIII

Chair Jetai Clemente and Co-Chair Jaster Guadotang
Membership Promotion Philippines Delegates

Oktoberfest & Decarbonization Refrigeration Systems Seminar

Technical Seminars on Decarbonization

Challenged around Decarbonization
Building Decarbonization
Green Breakthroughs in collaboration with Philippine Green Building Initiative 2023

Fellowship Night with Industry Experts

Online Technical Seminar
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