### DRC’s Message

Dear Fellow Region XIII compatriots,

It has been quite a while since most of us met in-person. The Covid virus and its variants have affected all of us significantly.

When we were able to meet at the RPM Welcome Dinner and on the following two days, we all agreed that face-to-face meetings is what we missed; we greet and embrace each other warmly, we enjoyed our conversations and chats, our laughter filled the air……

As the fiscal term for 2022-2023 is nearing the end, we will be having new Chapter Presidents, President-Elects and BOGs. After RPM 2 in Macao, the Chapter President-Elects would hopefully be better prepared to lead their Chapters when they assume office as the Chapter Presidents. As the respective Chapters’ elected leader, it is an unenviable task indeed. Nevertheless, I am very sure that all the incoming Chapter Presidents would carry out their duties well and lead their Chapters to further heights with their best ability.

Recently, we are experiencing a heat wave throughout our Region. The temperatures in many various countries here have hit a new high; global warming is certainly very evident and is already here. Air-conditioning and thermal comfort would certainly be necessities and thus energy savings, overall system performance, selection of efficient equipment and sustainability are also equivalent companying functions. So are the race to develop new refrigerants and decarbonization continues……

A new fiscal term will begin very soon with new Chapter Presidents in most Chapters will take over office. I hope the discussions and refresher trainings in RPM 2 in Macao would be helpful in your planning and operations. It was really a joyous, fun-filled and heartfelt atmosphere to meet in Macao after the long break due to the pandemic and travel restrictions. I am sure we all enjoyed our RPM 2 very much. A very special thanks and mention to the Macao Chapter for the wonderful planning and arrangements despite the very tough challenges; in the sudden rise in the costs and lack of rooms as the visitors gradually return to Macao.

I hope to see all of you in Taichung, Taiwan for the forthcoming 26th Region XIII CRC. It will be business as there will be nominations and elections of new RVCs and APCBE Steering Committee’s members whose term will end by end June 2024, motions to be raised and voted on, strategic regional issues to be discussed and agreed upon, reports and updates by the RVCs and not forgetting lessons and trainings to be shared among the Delegates & Alternates and the various Chapter Committees members……

I am also very sure that the 26th CRC will be an opportunity to deepen our friendship and bond, share our comraderies and work towards an efficient, better organised and closely-knitted Region XIII!!!

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

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Regional Newsletter Editor (2022-25):  
Wong Chun Sing  
[Email: cswong.ashrae@gmail.com]
Summer 2023

**Chapter Technology Transfer Update**

RXIII CTTC fulfilled all regional activities planned for the year 2022-23 and the progress shown as below:

- **CRC 2022 Japan**: CTTC workshop has been attended by 100% Chairs/Co-chairs virtually
- **DL**: Society allocation 10 and RXIII managed to do 13 events
  - 130% achievement in DL events
  - 8 of 13 DL events performed either multi-chapter/meeting with Govt agencies
  - Still pursuing for a new DL from RXIII as part of the Society DL
- **Tech awards**: Japan & Hong Kong chapters won society level awards (Great achievement for RXIII)
- **PAOE**: All chapters achieved PAR and 70% achieved double the PAR

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**RXIII CTTC MBO (Management by Objective 2022-23)**

- **CTTC chairs attending JAPAN CRC workshop**: 100%
- **DL Program 2022-23**: Allocated: 10 Conducted: 13
  - First Place & Honorable Mention: Japan & Hong Kong Chapters
- **Tech awards 2022-23**: 70% achieved double PAR
  - 5 chapters presented on climate change & Decarbonization
- **Decarbonization drive**: 8 of 13 DL events
  - 8 DL events performed multi-chapter/meeting with Governmental agencies

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RXIII CTTC Progress for 2022-23 details under the following categories:

**CTTC Chapter Committees and follow up**

**DL events**

10 DL Quota allocated by Society for the 2022-23 has been fulfilled and extra 3 events arranged as per Chapters request which shows the enthusiasm by chapters to get more Tech events for their chapters. 8 DL events out of 13 are coordinated to do multi-chapter visits or meetings with Governmental agencies achieving decarbonization goal being promoted by society.
Ross D Montgomery
Thailand Chapter DL event in Jan 2023

Kishor Khankari
Indonesia Chapter DL virtual event in Mar 2023

Luke Leung
Japan Chapter DL event in Mar 2023

Drury B. Crawley
Singapore Chapter DL event in Apr 2023

Douglas C. Cochran
Singapore Chapter DL event in Apr 2023

Panel discussion conducted by DRC Leong Cheng Wee
with DL’s and local Government agency and experts
Singapore - Apr 2023

Kishor Khankari
South Korea Chapter DL event in Apr 2023

Kishor Khankari
Taiwan Chapter DL event in Apr 2023

Rajan Rawal
Vietnam Section DL event in May 2023

Rupesh and Satish Iyengar
Indonesia Chapter DL event in May 2023

ASHRAE Technology Awards

Society Level Technology Awards 2022-23:

• Japan chapter and Hong Kong chapter won the society level Technology awards competition in first place as well as honorable
  mention in their respective categories as below
Appreciate the efforts from both Japan and Hong Kong 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.

The deadline for the Tech awards submission by each chapter to RVC:
Regional level competition for 2023-24 : 15 June 2023
Society level competition 2023-24 : 25 August 2023

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 5 June 2023 is captured below.

<table>
<thead>
<tr>
<th>Chapter</th>
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<th>Chapter Technology Transfer Minimum - 550 ; PAR - 1050</th>
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<tr>
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<td>SINGAPORE</td>
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<td>JAPAN</td>
<td>2000</td>
</tr>
<tr>
<td>195</td>
<td>SOUTH KOREA</td>
<td>1050</td>
</tr>
<tr>
<td>198</td>
<td>MACAO</td>
<td>2900</td>
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</table>

100% chapters achieved PAR
70% of chapters achieved double the PAR
Good show by all chapters
Government Affairs Update

I had the opportunity to attend the ASHRAE Winter Meeting at Atlanta, Government Affairs Regional Committees, 3 February 2023. There were discussions on list of Government Outreach Events, passing of motions and sharing of respective Regional Vice Chair on their regional governmental outreach activities.


In Region XIII, we had regular virtual meetings on governmental affairs among the chapters GA Chair and Co-Chair representatives.

<table>
<thead>
<tr>
<th>Meetings</th>
<th>Dates</th>
<th>Attendances</th>
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<tr>
<td>GAC Workshop</td>
<td>20 August 2022</td>
<td>28</td>
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<td>GAC Meeting no. 1</td>
<td>29 October 2022</td>
<td>11</td>
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<td>GAC Meeting no. 2</td>
<td>25 March 2023</td>
<td>13</td>
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<td>GAC Meeting no. 3</td>
<td>27 May 2023</td>
<td>&gt; 30</td>
</tr>
<tr>
<td>(RPM 2)</td>
<td></td>
<td>(RXIII officers)</td>
</tr>
</tbody>
</table>

RXIII Government Affairs Committees virtual meeting, 25 March 2023
Singapore Chapter Highlights
Reported by Yang Junjing, Singapore Chapter President 2022-2023

ASC-IES Joint Webinar on 19 January 2023 on ASHRAE’s COVID Guidance for Multifamily Buildings

Lunar New Year Celebration on 1 February 2023

ASC and IES Joint Seminar on Decarbonisation and Sustainable Singapore

YEA-SA Technical Sharing Session
ASC-NUS MEM Alumni Joint Seminar on Carbon Net Zero and Built Environment

Women in ASHRAE feature on International Women’ Day

Pulak Goyal
Student member from MSc Building Performance and Sustainability at the National University of Singapore

I am studying in the Science and Engineering field since it allows me to explore and apply my interests related to the built environment in the real world.

I join ASHRAE as it is constantly exploring green technologies in the HVAC industry and the built environment. The ASHRAE membership helps me connect with like-minded individuals and peers which is helpful to me as a student to learn more about the professional world of this industry.

Sheen Pandita
Student member from MSc Building Performance and Sustainability at the National University of Singapore

Despite facing scepticism from society, I remained committed to pursuing science and engineering because I believed it was an opportunity for personal empowerment and a chance to use my skills to make a positive impact on the world.

ASHRAE provided me learning and networking support to propel my career forward and seize the opportunities that come.
Hong Kong Chapter Highlights
Reported by Joe Chow, Hong Kong Chapter President 2022-2023

ASHRAE Night 2023 (9 January 2023)
ASHRAE Night 2023 was successfully held on 9 January 2023, allowing members, partners, and guests to meet in person after several years of virtual events due to the pandemic. The gathering offered an excellent opportunity for attendees to learn about ASHRAE’s missions, organizational structure, and future plans. The event also served as a reunion for ASHRAE’s friends and supporters.

ASHRAE Winter Conference in Atlanta, United States (4 - 8 February 2023)
The ASHRAE Winter Conference 2023 was held at the CNN Center and the Georgia World Congress Center in Atlanta. The major focuses of the conference were to address critical challenges in the built environment, particularly in the HVACR industry, and to introduce building decarbonization strategies, which echoed ASHRAE’s society theme of 2023, “Securing Our Future”.

Meanwhile, the AHR Expo featured over 1800 exhibitors, showcasing products and technologies in the categories of HVACR, indoor air quality (IAQ), building automation & control, sustainable solutions, and AI-enabled software.

It is a fruitful year for Hong Kong Chapter. In the Plenary session, we were thrilled to see the great HK project and design team to receive the grand award on the stage. Big congratulations to:

- ASHRAE Technology Award: First Place - Swire Properties Limited
- Student Design Competition: First Place - HKU Student Team
- ASHRAE Fellowship: Prof. Christopher Chao

It shows that our HK Engineers and Young Engineers are awesome!
Seminar on Modernizing with BACnet in Smart City (1 March 2023)

Adoption of BACnet technology perfectly matches strategies and initiatives of Smart Environment under Hong Kong Smart City Blueprint 2.0. The integration of building management systems with BACNet technology, an open data protocol for buildings, provides a powerful solution for modernizing building systems.

On 1 Mar 2023, over 80 participants joined the seminar organized by Hong Kong Productivity Council and co-organized by ASHRAE Hong Kong and Electrical and Mechanical Services Department. Our speakers shared their experience from BACnet fundamental to Practice use even in RCx, ESG and IoT application. BACnet is not just a communication protocol, it can also help us to develop the smart building in Hong Kong.

Advancing Net Zero Carbon Building Design (20 April 2023)

On 20 April 2023, ASHRAE Hong Kong Chapter organized a seminar at Multi-Purpose Hall, CIC Zero Carbon Park, Kowloon Bay, Hong Kong. The seminar aimed to bring together stakeholders in the building design, construction, operation, ownership, and management sectors to address how the building industry can improve the impact buildings have on the global climate crises.

The seminar had over 100 participants, including industry leaders in different areas of interest. The seminar program included several presentations that addressed the following topics: Advancing Net Zero Drivers: Guidelines, Standards, and Regulations; Passive and Active Design of Net Zero Buildings; and Emerging New Technology Applications. ASHRAE Distinguished Lecturer, Mr. Frank Mills also delivered a topic of “Net Zero Energy Buildings. The seminar was successful in bringing together stakeholders in the building industry to address the impact of buildings on the global climate crisis. The presentations and discussions offered valuable insights into advancing net zero buildings, passive and active design, emerging new technology applications, and real case sharing. The participants also had the opportunity to network and share updates, ensuring they remained at the forefront of the engineering industry.
Taiwan Chapter Highlights
Reported by Lin Hung Wen, Taiwan Chapter President 2022-2024

After several years of the impact of the pandemic, it is a good time to hold a physical member meeting. This year's member meeting of the Taiwan Chapter coincides with Earth Day (22 April 2023). ASHRAE's mission is similar to the Earth Day, both intending to save energy and protect the environment to create a better world.

The conference was held in conjunction with the DL seminar. ASHRAE Fellow Kishor Khankari, Ph.D. was specially invited to share on the theme of "Airflow Management Best Practices for Data Centers". Because the demand for data center design and the energy-saving requirements made this seminar very popular and attractive.

There are three highlights of this event, the first is the Q&A after DL’s speech. Several senior members had rich experience in data center ventilation design, they have a very brilliant post-meeting discussion with the lecturer. In addition, several life members are specially invited to participate in the member meeting, so that different generations had the opportunity to communicate and share some industry experience through this event. Finally, the preparatory committee designed a prize-winning activity for all the participants which made the conference very lively.
# Macao Chapter Highlights

Reported by Alfred Wong, Macao Chapter President 2022-2024

<table>
<thead>
<tr>
<th>1</th>
<th>Activity: Young Engineer and Student Technical Visit – Facade Factory (Zhuhai) 青年工程師及學生技術參觀 – 玻璃幕墻廠(珠海)</th>
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| 2 | Activity: Young Engineer and Student Technical Visit – Galaxy Macau 青年工程師及學生技術參觀 – 澳門銀河 |
| Date: | 18 February 2023 |
| ASHRAE Macao News Report: | [https://mp.weixin.qq.com/s/BNS3uzFQ10VSp6VJ_1xtyw](https://mp.weixin.qq.com/s/BNS3uzFQ10VSp6VJ_1xtyw) |
|濠江日報: | [https://www.houkongdailynews.com/sectionNews/77009](https://www.houkongdailynews.com/sectionNews/77009) |
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<p>| Molten Salt Tower Solar Thermal Power Technology and its Carbon Neutral Significance, China Artificial Solar Fusion Technology, Decarbonization in the Built Environment 熔鹽塔式光熱發電技術及其碳中和意義、中國人造太陽核聚變技術、建築環境中的脫碳 |
| Date: | 17 March 2023 |
| 1 | 宣傳單張: | <a href="https://drive.google.com/file/d/1HLzohrWfT8KvUHim6zO5YOlZL7r6f/view?usp=share_link">https://drive.google.com/file/d/1HLzohrWfT8KvUHim6zO5YOlZL7r6f/view?usp=share_link</a> |
| 2 | 宣傳影片: | <a href="https://youtu.be/YnlXFbprSIg">https://youtu.be/YnlXFbprSIg</a> |
| 3 | 宣傳節目: | <a href="https://fb.watch/1qzZGpC88/">https://fb.watch/1qzZGpC88/</a>(澳廣視 - 澳門早晨 節目 專訪) |
| 4 | 活動佈景: | <a href="https://drive.google.com/file/d/1FKo07Q8.3h0BCkN2RGAj8L69l0q36Eh/view?usp=share_link">https://drive.google.com/file/d/1FKo07Q8.3h0BCkN2RGAj8L69l0q36Eh/</a> |
| 5 | 團體相片: | <a href="https://drive.google.com/file/d/1XPCVA488--dp39po9d4Jkd5JUoGx7UTxep/view?usp=share_link">https://drive.google.com/file/d/1XPCVA488--dp39po9d4Jkd5JUoGx7UTxep/view?usp=share_link</a> |</p>
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傳媒報導

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<th>A1</th>
<th>市民日報 - ASHRAE 工程師學會主辦脫碳研討會 (2023-03-17)</th>
<th><a href="https://news.shimindaily.net/news/article?id=d3d2f78d-bf1e-4b77-b90b-5040a8c68f9f">https://news.shimindaily.net/news/article?id=d3d2f78d-bf1e-4b77-b90b-5040a8c68f9f</a></th>
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<td>A4</td>
<td>TDM - Industrial association calls for better environmental education (2023-03-19)</td>
<td><a href="https://fb.watch/jqmGXsDWM_/">https://fb.watch/jqmGXsDWM_/</a></td>
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<td><a href="https://www.houkongdailynews.com/sectionNews/79372">https://www.houkongdailynews.com/sectionNews/79372</a></td>
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</table>

4 Activity:

Technical Visit: The House of Dancing Water - City of Dreams
技術參觀 - 澳門新濠天地水舞間
Date: 18 March 2023

ASHRAE Macao News Report:
https://mp.weixin.qq.com/s/e4ZH-O3CczCKSQVL9Mn7ow

Photo:
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澳門日報:
http://www.macaodaily.com/html/2023-03/21/content_1661928.htm

市民日報:
https://news.shimindaily.net/news/article?id=d3d2f78d-bf1e-4b77-b90b-5040a8c68f9f

濠江日報:
https://www.houkongdailynews.com/sectionNews/79372

5 Activity:

Technical Visit – GREE Air Conditioner Factory (Zhuhai)
技術參觀 - 格力空調廠(珠海)
Date: 24 March 2023

ASHRAE Macao News Report:
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Video:
https://fb.watch/leZlw5X1q/
7 Activity: Technical Visit - Zhuhai Hengqin Energy Centre & Legend Ponto Square
技術參觀 - 珠海橫琴能源中心及勵駿龐都廣場
Date: 13 May 2023
ASHRAE Macao News Report: https://mp.weixin.qq.com/s/Mtf4xpaVlf_sSRLA49KRRg
Photo: https://drive.google.com/drive/folders/17irOqsKikXXH8yIa0d0kqWWT79soxAU?usp=drive_link
Video: https://drive.google.com/file/d/1yMl6Nm1Gu62Fe4NNDdVenTVU-EwL6Cy/view?usp=sharing

8 Activity: RPM2
Date: 27 & 28 May 2023
Photo Link: https://drive.google.com/drive/folders/1f7xWSUYoKnTNNa0ZLLKR78gqsc-UNJr?usp=drive_link
Video: https://drive.google.com/file/d/1NGA_kJkqW17pThXcFbK1S8HLRCXdmx/view?usp=sharing

9 The 7th Anniversary Year Book
ASHRAE Macao News Report: https://mp.weixin.qq.com/s/eEf6Ed0zoBjWUCHiSijWFOA
E-Book: https://flbook.mwkj.net/c/KqNgo11jAh