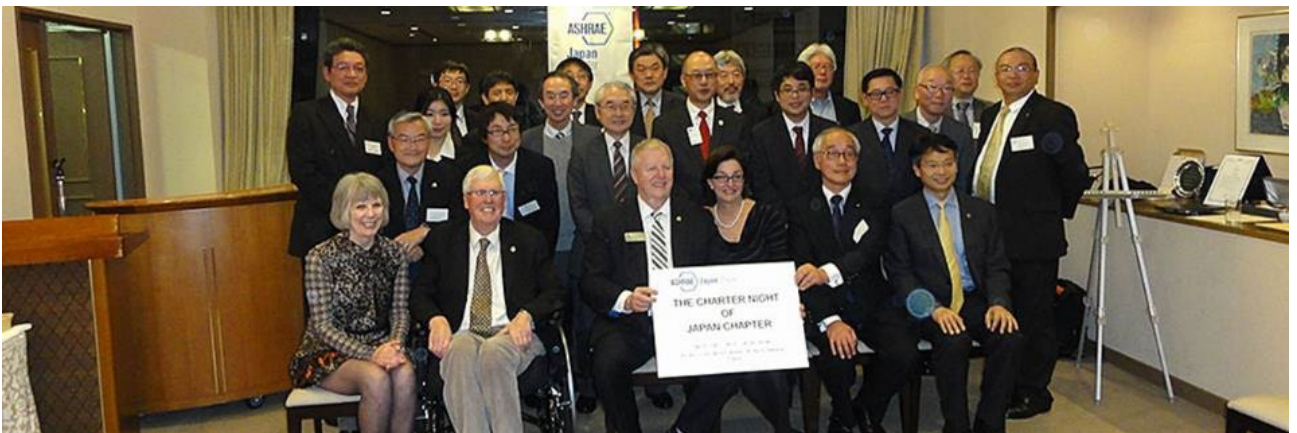




ASHRAE Japan Chapter 10 years History



Established on 7th October 2014

<President message>

Since its establishment in 2014, the ASHRAE Japan Chapter has been dedicated to advancing technologies in HVAC&R and building environments, while promoting international knowledge exchange. Over the past ten years, we have organized technical seminars, symposia, student support initiatives, and participated in global conferences—fostering meaningful connections with professionals both in Japan and abroad. The COVID-19 pandemic, which began in 2020, brought significant challenges to our activities. In-person events became difficult to hold, and we had to quickly adapt to online formats. Despite these limitations, the passion and flexibility of our members enabled us to continue our mission and explore new ways to deliver value. In recent years, as the pandemic has subsided, our Chapter has seen a resurgence in activity. Face-to-face interactions have returned, and we are witnessing increased participation from young engineers and students. This renewed energy is invigorating the Chapter and paving the way for future growth. This commemorative publication reflects on our journey over the past decade, capturing the achievements and dedication of all those who have contributed to our success. We hope this record will serve as a foundation for future endeavors and a guide for the next ten years.

On behalf of the ASHRAE Japan Chapter, I would like to express my heartfelt gratitude to everyone who has supported our activities.

ASHRAE Japan Chapterは、2014年の設立以来、空調・冷凍・建築環境分野における技術の発展と国際的な知見の共有を目的に、様々な活動を展開してまいりました。この10年の間には、技術セミナーやシンポジウム、学生支援、国際会議への参加など、多岐にわたる取り組みを通じて、国内外の専門家との交流を深めてきました。しかしながら、2020年からの新型コロナウイルス感染症の拡大により、私たちの活動も大きな制約を受けました。対面でのイベントが困難となり、オンラインでの開催への移行を余儀なくされるなど、試行錯誤の時期が続きました。それでも、会員の皆様の柔軟な対応と熱意により、活動の継続と新たな形での価値提供を実現することができました。そして、コロナ禍が落ち着きを見せ始めた近年、Chapterの活動は再び活発化しています。対面での交流が戻り、若手技術者や学生の参加も増え、Chapter全体が新たな活力を得ていることを実感しています。本記録集は、こうした10年間の歩みを振り返り、私たちが築いてきた成果と、そこに込められた多くの方々の努力と情熱を記録したものです。この一冊が、今後の活動の礎となり、次の10年への道しるべとなることを願っております。

最後に、これまでChapterの活動を支えてくださったすべての皆様に、心より感謝申し上げます。



Kitano Mizuide
President, 2025-2026

BOG & Chapter Committee



Shinsuke Kato
President,
Delegate,
Administrator



Shinichi Tanabe
President-Elect,
Alternate,
Administrator



Takashi Akimoto
Secretary,
MP Chair,
Administrator



Yoshimi Suyama
Treasurer,
MP Co-Chair,
Administrator



Akio Miyara
CTT Chair,
RP Co-Chair,
BOG



Junta Nakano
GA Chair,
BOG



Susumu Horikawa
GA Co-Chair,
SA Co-Chair,
BOG



Ryoza Ooka
RP Chair,
BOG



Kazuhide Ito
SA Chair,
Webmaster,
BOG

Activities_2015

● Japan Chapter ● Region XIII ● Society ● Others

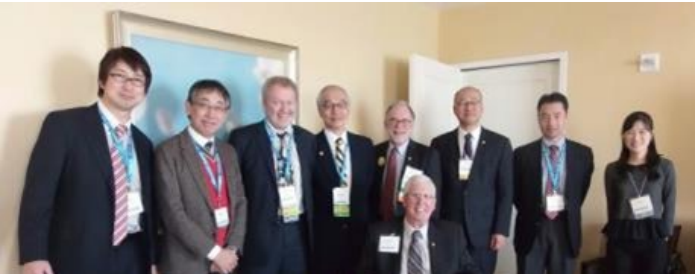
- 2014 Oct. 2 ASHRAE Japan Chapter Chartered (Region XIII #194, 160 members)
- 2014 Dec. 1 ASHRAE Japan Chapter 1st Meeting @Tokyo



- Apr. 14 ASHRAE Japan Chapter Charter Night @Tokyo



- July 7 1st General Meeting @SHASE Tokyo



● Aug. 21-22 Region XIII CRC @Philippines



● Sep. 17 Special Lecture by Prof. Olesen (SHASE Annual Meeting) @Osaka Uni

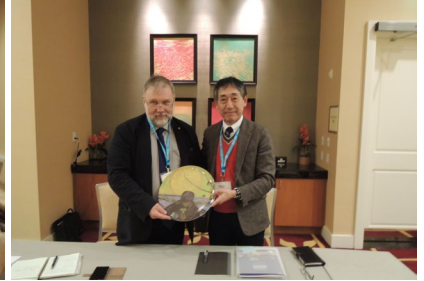


● Nov. 19-20 Region XIII APCBE @Hong Kong



Activities_2016

● Jan. 23-27 ASHRAE Winter Conference & AHR EXPO@Orlando



● March 28 President's Day @Tokyo



● Apr. 15 1st DL by Professor Yang @Nakano, Tokyo



● June 11-12 Region XIII RPM-2 @Singapore



BOG & Chapter Committee



Shinsuke Kato
President,
Administrator,
BOG



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Administrator,
BOG



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Delegate,
MP Chair,
Administrator, BOG



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Treasurer, Alternate,
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Administrator, BOG



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BOG



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BOG



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SA Chair,
Webmaster,
BOG



Susumu Horikawa
GA Co-Chair,
SA Co-Chair,
BOG



Junta Nakano
GA Chair,
BOG

Activities_2016

● Japan Chapter ● Region XIII ● Society ● Others

● July 29 General Meeting @Waseda ● July 31 Golf Competition @Toride-sakuragaoka GC, Ibaraki

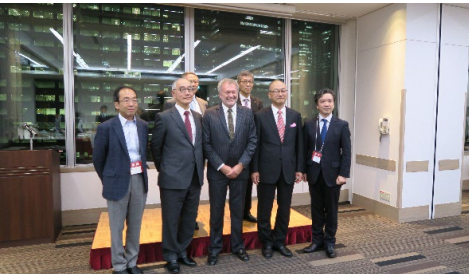


● September 30-October 2 Region XIII CRC @Bangkok, Thailand



● October 28 Co-sponsored 1st meeting of Radiative AC Association

● December 4 Technical seminar @Kyushu



Activities_2017

● Jan. 28-Feb. 1 Winter Meeting @Las Vegas



● March 19 Region XIII Dinner Party



● June 19 Region XIII RPM-2 @Hong Kong





Shin-ichi Tanabe
President,
Delegate,
BOG



Yoshimi Suyama
President Elect,
Alternate,
BOG



Akio Miyara
Vice President,
Treasurer,
CTT Co-Chair, BOG



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MP Chair,
BOG



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MP Co-Chair,
RP Chair,
BOG



Tamio Itoh
CTT Chair,
BOG



Junta Nakano
GGA Chair,
YEA Co-Chair,
BOG



Susumu Horikawa
GGA Co-Chair,
BOG



Motoi Yamahara
RP Co-Chair,
YEA Chair,
BOG



Kazuhide Ito
SA Chair,
EC Chair,
BOG



Masayuki Ichinose
SA Co-Chair,
BOG



Shinsuke Kato
Historian,
BOG

2017_Activities

● Japan Chapter

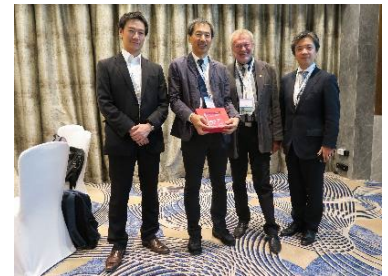
● Region XIII

● Society

● Others

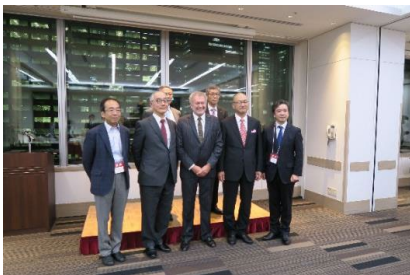
● July General meeting @Waseda University

● Aug. 25-26 Region XIII 20th CRC @Singapore



● Sep. 11 3rd meeting of Radiative AC Association

● Sep. 14 International Session on SHASE Annual Meeting @Kohchi University



● Nov. 8 Okinawa Professional Engineers Symposium



● Nov. 19 14th APCBE Steering Committee Meeting @Bali



● Dec. 12 2nd and 3rd Golf Competition



2018_Activities

● Jan. 20-24 Japan Session in ASHRAE Winter Meeting @Chicago



● April 10 Seminar co-organized by CAR, ASHRAE Beijing, ASHRAE Shanghai, supported by IAQ @Beijing
"Building Commissioning, Operation & Maintenance"



● May. 5 Joint Meeting and Ceremony with ASHRAE HQ, SHASE and JSREA



● May 27 Chapter Golf competition



● June 6 Region XIII RPM-2 @Malaysia



BOG & Chapter Committee



Yoshimi Suyama
President,
Delegate,
BOG



Akio Miyara
President Elect,
Alternate,
BOG



Sayana Tsushima
Vice President,
YEA Chair



Takashi Akimoto
Treasurer,
BOG



Susumu Horikawa
Secretary,
GGA Co-Chair,
BOG



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MP Chair,
BOG



Ryoza Ooka
MP Co-Chair,
RP Chair,
BOG



Kitaro Mizuide
CTT Chair



Tamio Itoh
CTT Co-Chair,
BOG



Junta Nakano
GGA Chair,
BOG



Motoi Yamaha
RP Co-Chair,
BOG



Masayuki Ichinose
SA Chair,
BOG



Kazuhide Ito
SA Co-Chair,
EC Chair, BOG



Masanori Ukai
YEA Co-Chair



Shinsuke Kato
Historian,
BOG

2018_Activities

● Japan Chapter

● Region XIII

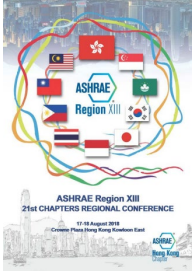
● Society

● Others

● July. 19 Annual meeting of Japan Chapter 2018 and DL Lecture by Dr. Andrey Livchak
"Energy Efficient Solutions for Commercial Kitchen Ventilation"



● Aug. 17-19 CRC Hong Kong "Japan Study Tour"

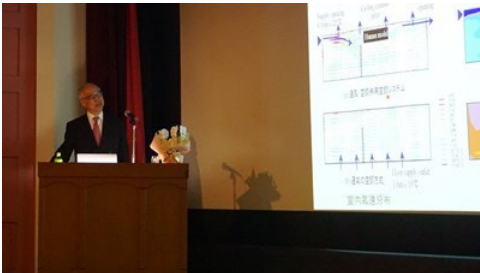


● Sept. 10 Co-sponsored seminar "Radiant air-conditioning"

● Sept. 12 Lecture by President Olesen @SHASE Conf.



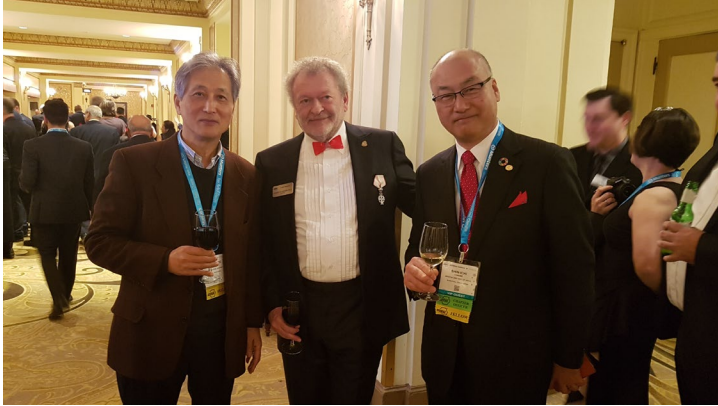
● Oct. 12 Professor Kato's commemorative lecture



- Nov. 7 Presentation at SAME 2017 Okinawa by Professor Miyara
"Development of new refrigerant and handling in accordance with ASHRAE standards"

2019_Activities

- Jan. 10 BOG meeting @Waseda University
- Jan. 12-16 ASHRAE Winter Conference @Atlanta



- May 27 Chapter Golf competition



- June 1-2 2nd RPM @Jakarta



- June 7 ASHRAE/SHASE/JSRAE & Japan Chapter Meeting



BOG & Chapter Committee



Akio Miyara
President,
Delegate



Takashi Akimoto
President Elect,
Vice President,
Alternate



Ryozo Ooka
Treasurer,
MP Co-Chair,
RP Chair



Susumu Horikawa
Secretary,
GA Co-Chair



Yoshimi Suyama
Honorary President



Shin-Ichi Tanabe
MP Chair



Kitaro Mizuide
CTT Chair



Tamio Itoh
CTT Co-Chair



Junta Nakano
GA Chair



Motoi Yamaha
RP Co-Chair



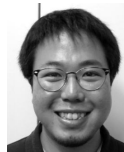
Masayuki Ichinose
SA Chair



Kazuhide Ito
SA Co-Chair,
EC Chair



Sayana Tsushima
YEA Chair



Masanori Ukai
YEA Co-Chair



Shinsuke Kato
Historian

2019_Activities

● Japan Chapter

● Region XIII

● Society

● Others

- July 10 BOG meeting @Waseda University
- Jul. 26 General meeting @Waseda University
- Aug. 23-24 CRC @Malaysia



- Aug. 25 RPM-1 @Malaysia



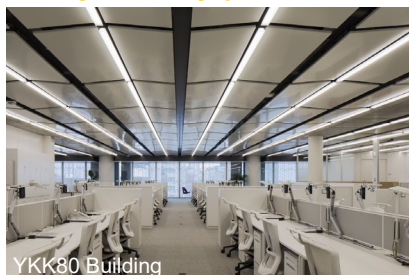
- Sep. 19 Chapter lunch meeting @Hokkaido University of Science
- Sep. 24 BOG Meeting @Waseda University
- Oct. 18-19 APCBE @Taiwan



- Oct. 20 Chapter golf competition



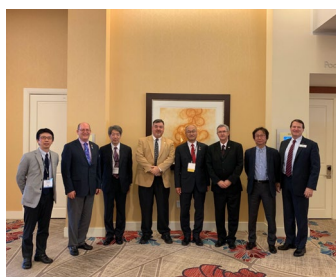
- Oct. 24 Co-sponsored seminar "Radiant cooling and heating systems"



- Dec. 11 BOG Meeting @Waseda University

2020_Activities

- Jan. 10 BOG Meeting @GoToMeeting
- February 1-5 ASHRAE Winter Conference @Orlando, Florida



- Feb. 20 BOG meeting @Nikken Sekkei Takebashi Office
- Mar. 2 Co-sponsored seminar "Air purification technologies: abilities and limitations"
@Institute of Industrial Science, Prof. Fariborz Haghighat, The University of Tokyo
- Apr. 11 Region XIII Planning meeting @GoTo Meeting
- Apr. 14 BOG meeting @Zoom
- May 9 Region XIII Pre RPM-2 and CRC-2020 Preparations Meeting @GoTo Meeting
- May 26 BOG meeting @Zoom
- Jun. 6 RPM-2 @GoTo Meeting
- Jul. 20 General meeting @Waseda University

BOG & Chapter Committee

Takashi Akimoto
President, Delegate

Ryozo Ooka
President-Elect,
Vice president, Alternate

Susumu Horikawa
Treasurer

Junta Nakano
Secretary

Masayuki Ichinose
MP Chair

Shin-ichi Tanabe
MP Co-Chair

Kosuke Sato
CTT Chair

Tamio Itoh
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GA Chair

Hideki Kikumoto
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Motoi Yamaha
RP Co-Chair

Ryoosuke Hiyama
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Kazuhide Ito
SA Co-Chair

Sayana Tsushima
YEA Chair

Masanori Ukai
YEA Co-Chair

Shinsuke Kato
Historian

Masayuki Ogata
EC Chair

2020_Activities

- July 20 General Meeting @Zoom
- August 1,8,15,22-23 Region XIII CRC, RPM-1, etc. @GoTo Meeting
- September 2 BOG meeting @Zoom
- October 6 Region XIII Virtual Dialogue with Society President @GoTo Meeting
- November 13 BOG meeting @Zoom
- November 28: Region XIII RPM-1 @GoTo Meeting
- BOG meeting @Zoom

● Japan Chapter

● Region XIII

● Society

● Others



2021_Activities

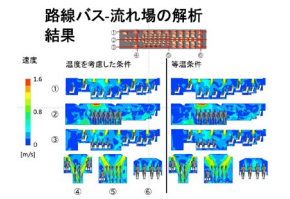
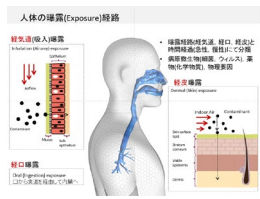
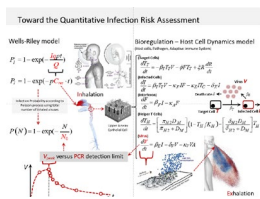
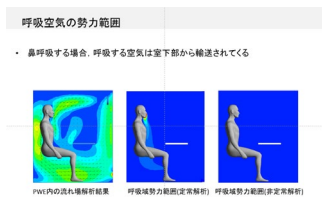
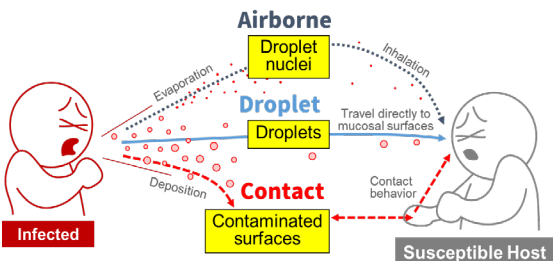
- January 27 BOG meeting @Zoom
- February 9-11 ASHRAE Virtual Winter Conference
- April 13 BOG meeting @Zoom
- April 29 Ex meeting @GoTo Meeting
- May 10 BOG meeting @Zoom
- June 5,12 RPM-2 @Akihabara Satellite Campus, Tokyo Metropolitan University
- July 20 General Meeting @Zoom
- July 20 Lecture by Shin-ichi Tanabe against COVID-19



❶ Closed indoor venue with poor ventilation

❷ Crowded place where many gather

❸ Close-contact conversations



BOG & Chapter Committee



Ryoza Ooka
President, Delegate,
BOG



Susumu Horikawa
President-elect,
Vice President, BOG



Junta Nakano
Treasurer,
BOG



Masayuki Ichinose
Secretary,
BOG



Takashi Akimoto
Immediate Past President,
GA Co-Chair, BOG



Ryosuke Hiyama
MP Chair



Shin-Ichi Tanabe
MP Co-Chair



Akio Miyara
Refrigeration Chair,
CTT Co-Chair



Norihiro Inoue
RP Chair,
Refrigeration Co-Chair



Kosuke Sato
CTTC Chair



Hideki Kikumoto
SA Chair



Kazuhide Ito
SA Co-Chair



Motoi Yamaha
RP Co-Chair



Kitaro Mizuide
GA Chair



Masanori Ukai
YEA Chair



Sayana Tsushima
YEA Co-Chair



Masayuki Ogata
EC Chair



Shinsuke Kato
Historian

2021 Activities

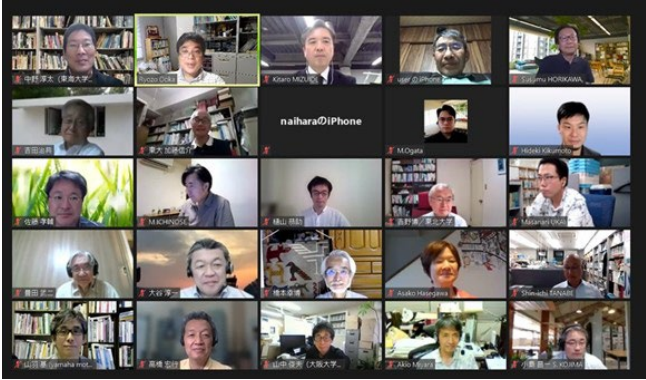
● Japan Chapter

● Region XIII





● Society

● Others

● July 20 General Meeting @Zoom



● August 7, 14, 20, 21, 28, September 4: Region XIII CRC, RPM-1, etc. @Zoom



● September 16 BOG meeting @Zoom


● October 15 BOG meeting @Zoom

● December 1 BOG meeting @Zoom

● Lecture on 2020 Technology Award “Kyoto Station Building”

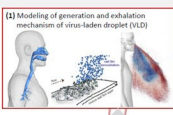


● December 8 ASHRAE Japan Chapter Seminar by Professor Kazuhide Ito @Zoom

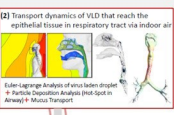


Numerical Models required for Airborne Transmission Analysis

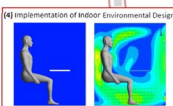
[1] Modeling of generation and evaluation mechanism of virus-laden droplet (VLD)



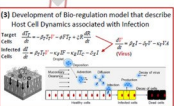
[2] Transport dynamics of VLD that reach the epithelial tissue in respiratory tract via indoor air




[3] Euler-Lagrange Analysis of virus-laden droplet in Particle-Deposition Analysis (used in ASHRAE) & Mucus Transport



[4] Implementation of Indoor Environmental Design



[5] Development of Bio-regulation model that describe Host Cell Dynamics associated with infection



In Silico human for Inhalation Exposure and Airborne Airway Infection

[1] Chemical Compounds

PBPK/TK (Physiologically Based Pharmacokinetics) for Inhalation Exposure

Whole-body exposure: $\frac{dC}{dt} = \frac{V_{inhalation}}{V_{body}} (C_{inhalation} - C_{body})$

Whole-body elimination: $\frac{dC}{dt} = -k_{el} C$

Epithelial Tissue: $\frac{dC_{epithelial}}{dt} = k_{inhalation} C_{inhalation} - (k_{el} + k_{eff}) C_{epithelial}$

[2] Virus/Bacteria

HCD (Host Cell Dynamics) for Airborne Airway Infection

Target Cells: $\frac{dT}{dt} = \lambda - \mu T - \beta T I$

Infectious Cells: $\frac{dI}{dt} = \beta T I - (\mu + \gamma) I$

Recovery Cells: $\frac{dR}{dt} = \gamma I - \mu R$

Whole-body dynamics: $\frac{dC_{body}}{dt} = k_{inhalation} C_{inhalation} - (k_{el} + k_{eff}) C_{body} + k_{eff} C_{epithelial}$

2022_Activities

● January 28-February 3 ASHRAE Winter Conference @Zoom, Las Vegas

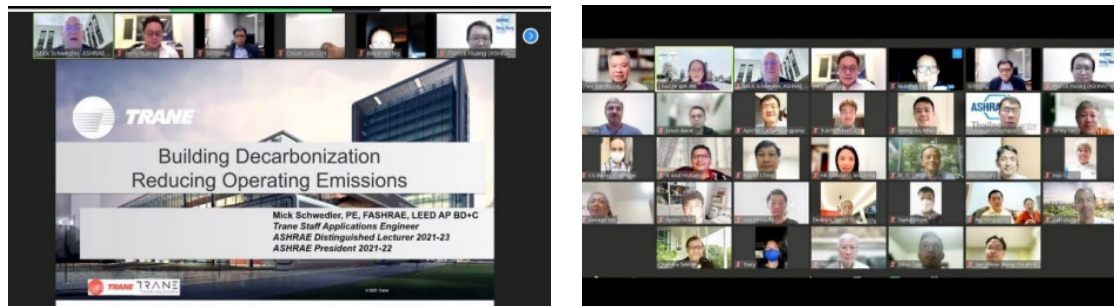
In Real Time: Charting the Pathway for Existing Buildings to get to Carbon Neutrality



Steve Sanburn, AIA, Member
Karl Peterson, P.E., Presidential Fellow
John Hickey, P.E.
Kirsten Washie, Associate Member

ASHRAE 2022 ASHRAE WINTER CONFERENCE Jan 28-Feb 2 | AHR EXPO Jan 31-Feb 2 LAS VEGAS

- February 8 BOG meeting @Zoom
- March 9 BOG meeting @Zoom
- April 14 Speech by present Society President Mr. Mick Schwedler @Zoom



- April 21 BOG meeting @Zoom
- May 13 BOG meeting @Zoom
- June 9 BOG meeting @Zoom
- June 11-12 RPM-2 @Taiwan+Zoom



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Susumu Horikawa
President, Delegate,
BOG



Junta Nakano
President-Elect,
Vice President, BOG



Masayuki Ichinose
Treasurer,
BOG



Kitaro Mizuide
Secretary,
BOG



Ryoza Ooka
Immediate Past President,
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MP Chair



Shin-Ichi Tanabe
MP Co-Chair



Akio Miyara
Refrigeration Chair,
CTT Co-Chair



Shiro Tsukami
CTT Chair



Hideki Kikumoto
SA Chair



Kazuhide Ito
SA Co-Chair



Norihiro Inoue
RP Chair,
Refrigeration Co-Chair



Motoi Yamaha
RP Co-Chair



Nobuhiro Hirasuga
GA Chair



Takashi Akimoto
GA Co-Chair



Masanari Ukai
YEA Chair



Sayana Tsushima
YEA Co-Chair



Masayuki Ogata
EC Chair



Shinsuke Kato
Historian

2022_Activities

● Japan Chapter

● Region XIII

● Society

● Others

● July 19 General meeting @Zoom



● Aug. 19 Indoor Air Quality Control After the COVID-19 Pandemic" by Prof. William P. Bahnfleth



● Aug. 20 Student Activity Workshop

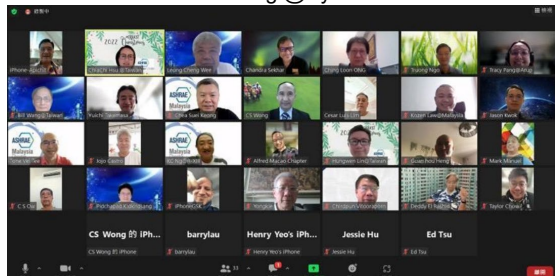
● Aug. 19-20 The 25th Chapters Regional Conference (CRC)



● Aug.21 ASHRAE's First Industry Round Table

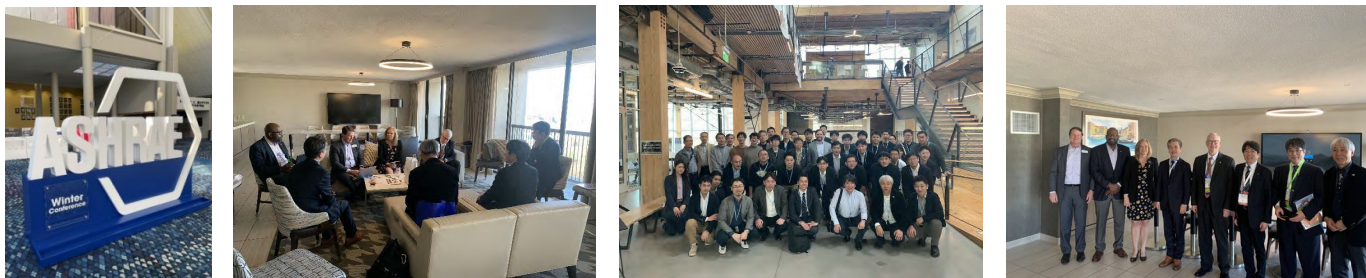


● Dec. 21 BOG meeting @Hybrid



2023_Activities

● Feb.6 BOG Visit and Meeting at ASHRAE Winter Conference @Atlanta



● Mar. 31 BOG meeting @Hybrid DL Luke Leung (SOM) / Topic LCCO2



● May.13: BBQ Party



● May 27-28 Regional Planning Meeting-2 @Macao



BOG & Chapter Committee

 Junta Nakano President, BOG	 Masayuki Ichinose President Elect., Vice President, BOG	 Kitaro Mizuide Treasurer, BOG	 Motoi Yamaha Secretary, BOG	 Susumu Horikawa Immediate Past President, GA Co-Chair, BOG	 Ryozo Ooka BOG	 Shin-Ichi Tanabe BOG	 Takashi Akimoto BOG
 Yuichi Takemasa MP Chair	 Shiro Tsukami MP Co-Chair	 Akio Miyara Refrigeration Chair	 Norihiro Inoue Refrigeration Co-Chair	 Tomoyuki Chikamoto CTT Chair	 Nobuhiro Hirasuga CTT Co-Chair	 Hideki Kikumoto SA Chair	 Kazuhide Ito SA Co-Chair
 Kiyosuke Hiyama RP Chair	 Yukiko Yoshida RP Co-Chair	 Hajime Onojima GA Chair	 Masanari Ukai YEA Chair	 Soma Sugano YEA Co-Chair	 Yuta Fukawa EC Chair	 Shinsuke Kato Historian	

Activities_2023

● Japan Chapter

● Region XIII

● Society

● Others

- July 6 General meeting @ Waseda University
- Aug. 18 -19 The 26th Chapters Regional Conference (CRC) @Taiwan



● Aug. 20 Regional Planning Meeting-1 (RPM-1) @Taiwan



● Nov. 3-4 Asia Pacific Conference on the Built Environment (APCBE) @ Kuala Lumpur, Malaysia

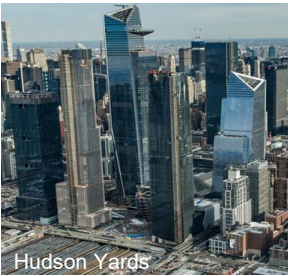


2024_Activities

● Jan. 12 Distinguished Lecture: Jim Vallort
"Commissioning: The What, Why and How."



● Jan. 20-29 SHASE Study Tour



● Jan. 20-24 ASHRAE Winter Conference @Chicago



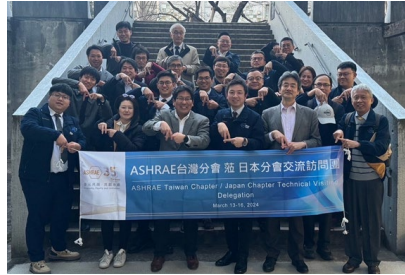
● Jan. 23 BOG Visit and Meeting at ASHRAE Winter Conference



● Jan. 25-26 Technical Tour of New York City (New York Chapter)



● Mar. 14-15 Technical Tour and Joint Meeting with Taiwan Chapter



● May 24-26 Regional Planning Meeting-2 (RPM-2) @Korea



BOG & Chapter Committee

 Masayuki Ichinose President, BOG	 Kitaro Mizuide President-Elect, Vice President, BOG	 Motoi Yamaha Treasurer, BOG	 Yuichi Takemasa Secretary, BOG	 Junta Nakano Immediate Past President, MP Co-Chair, BOG	 Ryozo Ooka BOG	 Shinichi Tanabe BOG	 Takashi Akimoto BOG
 Shiro Tsukami MP Chair	 Akio Miyara Refrigeration Chair	 Norihiro Inoue Refrigeration Co-Chair	 Tomoyuki Chikamoto CTT Chair	 Nobuhiro Hirasuga CTT Co-Chair	 Hideki Kikumoto SA Chair	 Kazuhide Ito SA Co-Chair	 Kiyosuke Hiyama RP Chair
 Yukiko Yoshida RP Co-Chair	 Hajime Onojima GA Chair	 Susumu Horikawa GA Co-Chair	 Masanari Ukai YEA Chair	 Yuta Fukawa YEA Co-Chair	 Soma Sugano EC Chair	 Shinsuke Kato Historian	

Activities_2024

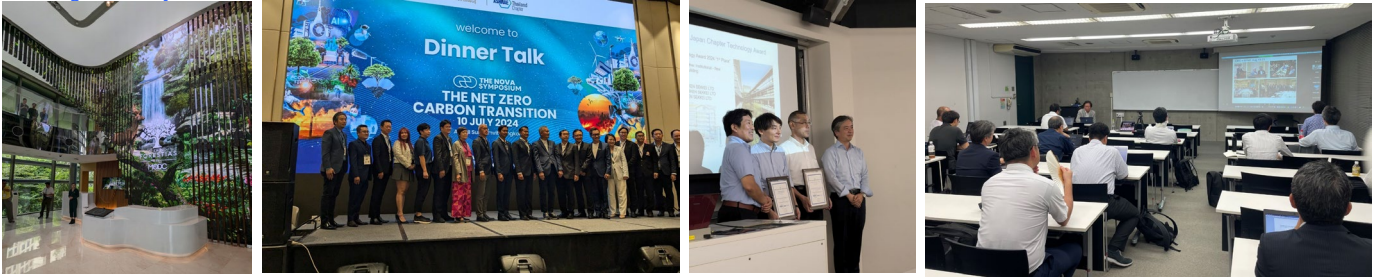
● Japan Chapter ● Region XIII ● Society ● Others

● May 25-26 RPM-2 @ ECC, Ewha Womans University, Seoul



● July 10 The Net Zero Carbon Transition Symposium,
Organized by EEC & ASHRAE Thailand Chapter

● July 18 General meeting @Tokyo



● Aug. 16 -17 The 27th Chapters Regional Conference (CRC)@Macau



● Sep. 11 Extraordinary meeting @Saga

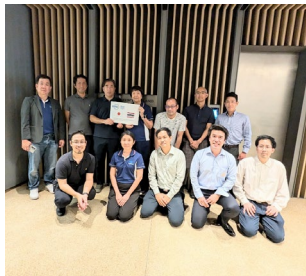
● Oct. 14 BOG BBQ @Tokyo



● Oct. 18 Society executive visit @Tokyo



● Nov. 1-5 Thailand Chapter visit @Thailand



Activities_2025

● Feb. 8-17 SHASE Study Tour



● Feb. 8-12 ASHRAE Winter Conference @Florida

● Feb. 10 BOG Visit and Meeting @ ASHRAE Winter Conference



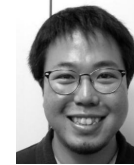
● Mar. 27-29 MIECF Conference 2025 @ Macau



● Jun. 21-25 ASHRAE Annual Meeting @Phoenix



● July 18 General Meeting @Tokyo

BOG & Chapter Committee**Kitaro Mizuide**
President,
BOG**Motoi Yamaha**
President-Elect, BOG**Yuichi Takemasa**
Treasurer, BOG**Kyosuke Hiyama**
Secretary, BOG**Masayuki Ichinose**
Immediate Past President,
BOG**Ryoza Ooka**
BOG**Shinichi Tanabe**
BOG**Takashi Akimoto**
BOG**Junta Nakano**
MP Chair**Tomoyuki Chikamoto**
MP Co-Chair**Norihiro Inoue**
Refrigeration Chair**Akio Miyara**
Refrigeration Co-Chair**Nobuhiro Hirasuga**
CTT Chair**Hirotaka Kubo**
CTT Co-Chair**Kazuhide Ito**
SA Chair**Masanari Ukai**
SA Co-Chair**Yukiko Yoshida**
RP Chair**Hajime Onojima**
RP Co-Chair**Susumu Horikawa**
GA Chair**Hideki Kikumoto**
GA Co-Chair**Yuta Fukawa**
YEA Chair**Ken Takahashi**
YEA Co-Chair**Soma Sugano**
EC Chair**Shinsuke Kato**
Historian**Activities_2025**

● Japan Chapter

● Region XIII

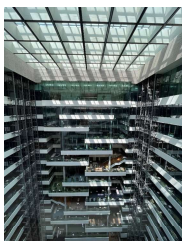
● Society

● Others

● Aug. 15-16 Chapters Regional Conference (CRC) @Seoul, South Korea



● Aug 17 HD Hyundai Inspection Tour by Japan Chapter @Songnam



● Sep. 3 Extraordinary meeting @Kagawa

● Oct. 20 DL @Tokyo

