



**MINUTES**

**GOVERNMENT AFFAIRS COMMITTEE  
WEDNESDAY, JUNE 16, 2021  
8:00 AM – 12:00 AM EDT  
(GO-TO MEETING)**

**Approved by the GAC September 30, 2021.**

**ATTENDANCE**

**Members Present**

Terry Townsend, Chair  
Chad Smith, Vice Chair  
Eileen Jensen  
Larry Fisher  
Steven Emmerich  
Sheila Hayter  
Meghan McNulty  
Nanette Lockwood  
Artorius Reyes  
Robert Hoadley  
Kinga Porst Hydras  
Tim Ashby  
Matthew Jesson  
Damon McClure  
Andrea Phillips  
Colin Laisure-Pool  
Daryl Collerman  
Eduardo Conghos  
Sam Hui  
George Pantelidis  
Gian Modgil  
Roger Jones  
Dunstan Macauley

**Members Absent**

Nate Heffner  
Ryan Williams  
Farooq Mehboob

**Guests**

Mick Schwedler  
Luke Leung  
Madison Schultz  
John Constantini  
Jared Larson  
Charles Hon  
Dr. Nick Clements  
Samantha Slater, AHRI  
Helen Walter-Terrinoni, AHRI  
Allison Maginot, AHRI  
Rob Risley  
Doug Tucker  
Marli Moise  
Jim Edelson, NBI  
Kim Cheslak, NBI  
Paula Seidel, AIA  
Cindy Schwartz, AIA  
Ayman Eltalouny, UNEP  
Jeff Whitelaw  
Doug Cochrane

**Staff**

Alice Yates  
Jeremy Pollack  
Emily Porcari  
Patricia Ryan  
Lilas Pratt  
Joyce Abrams

**INCOMING MEMBERS – Present**

Ginger Scoggins  
Darryl Boyce  
Bryan Holcomb  
Cynthia Callaway  
Billy Austin  
Mike Wolf  
Mike Genin  
Sonya Pouncy  
Ken Fulk  
R.J. Hartman  
Louis Van Belle  
Elizabeth Tomlinson  
Timothy Theriault  
Albert Sin



## **CALL TO ORDER, WELCOME AND ROLL CALL**

Mr. Townsend called the meeting to order at 8:00 a.m. EDT and welcomed the attendees, commenting that this is hopefully the last virtual meeting and that he is looking forward to meeting in person in Las Vegas. Roll call was taken, and a quorum was present.

Mr. Townsend noted that since there is a lot to cover, those with presentations will be timed so we can keep to a tight schedule. Townsend introduced Mick Schwedler and asked him to say a few words.

Mr. Schwedler thanked everyone for what they've done, especially during these difficult times. Schwedler encouraged that GAC to keep reaching out to government officials and to let leadership know how they can help.

Mr. Townsend also thanked everyone that has served this year, noting that the impact has been phenomenal.

## **ASHRAE CODE OF ETHICS**

Mr. Townsend read the summary of the Code of Ethics commitment

### *ASHRAE Code of Ethics Commitment*

*In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment, integrity, collaboration, volunteerism and diversity, and we shall avoid all real or perceived conflicts of interests.*

*(Code of Ethics: <https://www.ashrae.org/about/governance/code-of-ethics>)*

*(Core Values: <https://www.ashrae.org/about/ashrae-s-core-values>)*

## **REVIEW OF AGENDA**

Mr. Townsend reviewed the agenda and asked if there were any items or modifications to the agenda.

Mr. Constantinide requested that his BEQ report be moved to the end of Committee Liaisons Reports (from 14-a. to 14-f.) due to another meeting conflict. Townsend agreed to the adjustment.

## **APPROVAL OF MINUTES FROM MARCH 17, 2021 MEETING**

Mr. Townsend asked to review the minutes from the last GAC meeting on March 17, 2021.

**MOTION:** To approve the minutes of March 17, 2021 as written.

Motion made by Eileen Jensen and seconded by Rob Hoadley.

**MOTION PASSED: APPROVED BY VOICE VOTE (CNV). NO OBJECTIONS.**

## **UPDATE ON ACTION ITEMS**

Ms. Yates reported that all action items were completed, with the exception of item #5. Ms. McNulty has listed this as an ongoing Action Item and this activity will continue into the upcoming year.

## **REPORT FROM ASHRAE GOVERNMENT AFFAIRS OFFICE**

Staff provided a report on the activities and functions of the Government Affairs office (see Attachment).

## **REPORT FROM THE EPIDEMIC TASK FORCE**

Mr. Townsend provided a report on the work and progress of the ETF, saying that this has brought the GAC to the forefront. The ETF has met 19 times since it was formed, producing resources to help reduce the spread of the coronavirus, including the newest document “Core Recommendations for Reducing Airborne Infectious Aerosol Exposure.” Information has been shared with government entities at local, regional and national levels as quickly as it was provided to the GAC, and this will continue. (See Attachment for more details.)

## **REPORT FROM THE TASK FORCE FOR BUILDING DECARBONIZATION (TFBD)**

Mr. Townsend reported on the work of the TFBD stating that the GAC initiated the effort, having brought the decarbonization issue to the attention of ASHRAE leadership. Townsend briefly described the 9 working groups involving over 100 volunteers. If you have any questions about the work of the TFBD, please reach out to Terry Townsend or Chad Smith. (See Attachment)

## **REPORT FROM THE INTERNATIONAL STANDARDS TASK FORCE**

Mr. Pantelidis reported that the International Standards Task Force is new and has met only two times. They will be focusing on ensuring the technical content of ASHRAE standards are global and will promote ASHRAE Standards adoption in ISO, CEN and other international standards bodies.

## **YEAR-END SUBCOMMITTEE REPORTS AND MBO STATUS REPORTS**

A summary of the status of each of the MBOs is found as an Attachment to the minutes.

### Executive Subcommittee (MBO #1, 2, & 4)

MBO #1 - Mr. Smith reported that a 2030 vision for the GAC is in development, and will be completed in the upcoming year.

MBO #2 – Mr. Ashby reported that the term Advisory Board has been changed to Advisory Council.

MBO #4 – Mr. Jones reported that this work will need to continue into the upcoming year.

### Policy and Programs Subcommittee

Mr. Hoadley reported the completion of updates to the PPIB documents. The committee has approved several that were sent to the Tech Council Document Review Subcommittee (DRSC),

which suggested edits; revised documents including those edits were considered during the meeting.

Hoadley requested that the PPIBs listed in the agenda for approval be taken up en-bloc with a consensus motion.

- i. Climate Change and the Built Environment
- ii. STEM Education Workforce
- iii. Consensus Standards – Expert Solutions to Meet Global Needs
- iv. Refrigerants and their Responsible Use
- v. Indoor Air Quality (New PPIB)
- vi. Building Energy Benchmarking, Assessments, and Performance Targets
- vii. Environmental Tobacco Smoke

**MOTION:** To approve the seven PPIBs listed in the agenda (and above) and provided for as Attachments.

Motion made by Rob Hoadley on behalf of the PPSC.

**MOTION PASSED: APPROVED BY VOICE VOTE (CNV). NO OBJECTIONS.**

There was discussion on the status of Position Documents, as well as the process and timeline for revisions; Steve Emmerich reported those are being discussed by the DRSC and will provide more information on process and timeline after the meeting.

#### Member Mobilization Subcommittee

Ms. Phillips reported on the status of Government Outreach Events and referred to the progress report (see attachment). The GAC had a goal of 78 outreach events, and has held 68 to-date. Ms. Phillips noted that if all scheduled and planned events take place, the goal will be surpassed. For next year, the GAC has set a goal of 83 outreach events.

Phillips also reminded all RVCs to file reports on GOEs, as a report must be filed online to get credit for the event. She thanked the committee for its hard work, especially during this difficult year.

Ms. Phillips then reported on the MBOs assigned to the subcommittee (see Attachment).

#### Global Affairs Subcommittee

Mr. Hui reported on the MBOs assigned to the subcommittee (see attachment).



## Rules Subcommittee

Mr. Smith reported that the subcommittee reviewed the three documents assigned to it and has made revisions to all of them: Resource Manual, Manual of Procedures, and GAC section of the ROB.

### ***Resource Manual Changes***

Mr. Smith reviewed the proposed changes to the Resource Manual approved by the Rules Subcommittee (see attached), which included the addition of the Dave Palty GAC award, calendar recommendations, instructions on use of funds for international government outreach events, and streamlining the document (including providing hyperlinks).

**MOTION:** To approve the proposed Resource Manual revisions as provided in the Attachment.

Motion made by Mr. Smith on behalf of the Rules Subcommittee.

**MOTION PASSED: APPROVED BY VOICE VOTE (CNV). NO OBJECTIONS.**

### ***GAC Manual of Procedure (MOP) Changes***

Mr. Smith reviewed the proposed changes to the MOP approved by the Rules Subcommittee (see attached), which include the need to have more members on the GAC Rules Subcommittee, and to provide more clarity in membership on the Member Mobilization, Policy and Programs, and Global Affairs Subcommittees.

**MOTION:** To approve the proposed MOP revisions as provided in the Attachment.

Motion made by Mr. Smith on behalf of the Rules Subcommittee.

**MOTION PASSED: APPROVED BY VOICE VOTE (CNV). NO OBJECTIONS.**

### ***Revisions to Rules of the Board – GAC Section***

Mr. Smith reviewed the proposed changes to the GAC Section (Section 2.402) of the Rules of the Board (see attached), which were approved by the Rules Subcommittee. Currently, the GAC Chair and/or Vice-Chair must have ExCom experience. This restriction was intended to provide necessary guidance to the GAC on matters that have Society-wide ramifications. In the past, this has negatively impacted consistency from year to year because the Nominating Committee had to bring in Presidential members to meet this requirement who had not served on the committee in the recent years. Widening the requirement for ExCom experience to two members across the Chair, Vice Chair and 4 members at large fulfills the need to have guidance from members with ExCom experience while improving continuity of GAC efforts. Additional changes were proposed to reflect the name change from GGAC to the GAC.

**MOTION:** To approve the proposed ROB revisions as provided in the Attachment.

Motion made by Mr. Smith on behalf of the Rules Subcommittee.

**MOTION PASSED: APPROVED BY VOICE VOTE (CNV). NO OBJECTIONS.**

### Nominating Committee

Ms. Hayter reported the subcommittee has completed its duties for the society year. The committee does its work prior to the Winter Conference where they put together recommendations for leadership roles for GAC for the following year.

### **REPORTS FROM REGIONAL VICE CHAIRS**

The GAC RVCs summarized highlights from activities in their regions; detailed reports are provided in the Attachment.

- Region I – Mr. Reyes reported for Region I.
- Region II – Mr. Hoadley reported for Region II.
- Region III – Ms. Hydras reported for Region III.
- Region IV – Mr. Ashby reported for Region IV.
- Region V – Mr. Heffner was not in attendance.
- Region VI – Mr. Jesson reported for Region VI.
- Region VII – Mr. Williams was not in attendance. However, Mr. Fisher spoke to Region VII, which had challenges because they lost their RVC earlier in the year due to work commitments.
- Region VIII – Mr. McClure reported for Region VIII.
- Region IX – Ms. Phillips reported for Region IX.
- Region X – Mr. Laisure-Pool reported for Region X.
- Region XI – Mr. Collerman reported for Region XI.
- Region XII – Mr. Conghos reported for Region XII.
- Region XIII – Mr. Hui reported for Region XIII
- Region XIV – Mr. Pantelidis reported for Region XIV.
- Region at Large – Mr. Modgil reported for Region at Large.

## **PRESENTATION OF INAUGURAL DAVE PALTY OUTSTANDING GAC SERVICE AWARD**

Mr. Smith talked about Dave Palty’s tremendous contributions to ASHRAE and the GAC and his infectious and positive energy. Unfortunately Dave unexpectedly passed away in September 2019, and a special award named the Dave Palty Outstanding GAC Service Award was created in his honor to recognize a GAC member who reflected those ideals that Dave stood for.

Mr. Townsend presented the award to **Mr. Rob Hoadley**, Chair of the GAC PPSC and RVC for Region II. This award is presented “in recognition of outstanding overall efforts on ASHRAE’s Government Affairs Committee to advocate on behalf of ASHRAE with enthusiasm, drive, determination, and proactive leadership.”

Mr. Hoadley said this was a tremendous honor. He commented that Dave was just rolling off when he was coming on the committee, and noted, “I stand on the shoulders of giants.”

## **REPORTS**

- **ExO Report**: Mr. Macauley provided a report on the broader Society activities (see Attachment), including the new Diversity Task Force, the Society Transformation Ad Hoc Committee, the Building Decarbonization Task Force, and Vision 2030. He also reviewed the deadlines and process for Society Nominations, and discussed new member benefits.
- **Communications Coordinator Report**: Mr. Jones reported that his report has been posted to basecamp and gave a recap of the 2021 Winter and March 17<sup>th</sup> meeting. He has enjoyed his years on the committee and is now handing the baton to Sonya Pouncy.
- **Technology Council Representative Report**: Mr. Emmerich provided a detailed report (see attachment) on the Tech Council and said that most standing committees and subcommittees haven’t met yet. Tech council approved some items at a previous meeting in June: Position Document on Building Decarbonization, minor change to the Infectious Aerosol Position Document, and a roster for Limiting Indoor Dampness and Mold Position Document. The Residential Building Committee has completed a draft Residential Information Brief on Wildfire Smoke Hazards for Dwelling Occupants and should be approved next week. Guideline Project Committee 44P has completed an interim document titled Planning Framework for Protecting Commercial Building Occupants from Smoke During Wildfire Events and is available on ASHRAE website. Mr. Emmerich stated that the GAC will be in good hands with Billy Austin as the incoming Tech Council Representative.
- **Members Council Representative Report**: Ms. Jensen provided a report, explaining that the proposed language additions to the Manual of Chapter Operations (MCO) addressing potentially competing government grant funding applications was approved by the Manual subcommittee, as well as the Regions Operations subcommittee. Those changes will move to the full Members Council for review and voting at their meeting on June 22<sup>nd</sup>.

Ms. Jensen thanked the GAC for its work and a successful year on behalf of Members Council Chair Mick Schwedler and the rest of Members Council. Ms. Jensen noted that she

was confident the GAC will be in good hands with incoming MC Representative Bryan Holcomb.

- Pub-Ed Council Representative Report: Mr. Fisher provided a report (see attached) and thanked everyone for his three years on the committee. He also noted that there are a lot of synergies between the Global Training Center in Dubai, Pub-Ed and the GAC.

## REPORTS FROM COMMITTEE LIAISONS

- Building EQ Committee: Mr. Constantinide provided a report from the Building EQ Committee (see attached).
- Residential Buildings Committee: Ms. Graef was not present to provide a report, but Lilas Pratt, staff liaison, provided a report on her behalf. Ms. Pratt noted that the RBC will be developing Residential Issue Briefs (RIBs) to address current issues related to residential buildings; these may be of interest to the GAC.
- YEA Committee: Ms. Madison Schultz reported that there are no specific updates for GAC, and explained that they are having webinars every 6 weeks.
- Student Activities Committee: Mr. Larson noted that the Building EQ competition is wrapping up, and it is exciting to have this new competition.
- Refrigeration Technology Committee for Comfort, Process and Cold-Chain: Mr. Hon noted that implementation of the AIM Act (American Innovation and Manufacturing Act of 2019) is being implemented and there may be opportunities to collaborate with the GAC on this.
- Environmental Health Committee: Dr. Clements reported that one big task for EHC is coming up with a strategic plan for environmental quality, as they are working to develop a 3-year roadmap.

## GUEST INTRODUCTIONS AND REPORTS

UNEP: Mr. Ayman Eltalouny provided a report on their new work plan for 2021-23. The workplan's theme is "Refrigeration Management for Developing Economies" which recognizes the important role that refrigeration and air conditioning play in developing countries both in terms of societal benefits, ranging from protecting the food supply and vaccine storage to cooling for increased comfort and productivity.

AIA: Ms. Paula Seidel extended her thanks to ASHRAE and noted that it's been two years since the most recent MOU was signed with ASHRAE, and they are glad this collaborative relationship is strengthening, including with the international climate work and infrastructure legislation. Ms. Cindy Schwartz briefly reviewed their policy platform, which includes a more aggressive stance on climate change; the policy platform can be found here: <https://www.aia.org/pages/6315362-policy-platform-2020> There was also discussion that the



GAC would like to discuss with AIA how to encourage collaboration between the local chapters of AIA and ASHRAE on their outreach events.

AHRI: Mr. Samantha Slater, Senior Vice President of Government Affairs, reported that as policy makers push for decarbonization, AHRI will be balancing the goals from a climate perspective with that of providing critical services including life-saving climate control. Some policies and legislation are requiring that natural gas no longer be used, and AHRI is doing research around this space, and focusing on reducing carbon footprints rather than specific fuel bans. They are working on developing a decarbonization roadmap, a Q&A document including about grid interaction, and that distinguishes between urban and rural communities. Ms. Helen Walter-Terrinoni, Vice President for Regulatory Affairs, discussed work on refrigerants, fire safety and working to train fire fighters.

NBI: Jim Edelson, Director of Policy, shared that NBI is an organizational member of 189.1, 227 and 228P. NBI also has staff on 2 Working Groups of the decarbonization task force. NBI is also looking to work more closely with ASHRAE on advocacy to states and cities on building standards.

### **PROPOSED PUBLIC POLICY PRIORITIES FOR SY2021-2022**

Mr. Smith reported that the proposed Public Policy Priorities (PPPs) for the upcoming society year (see Attachment) represent an update of the PPPs from this year, which were considered during a GAC Executive Subcommittee planning session and subsequently approved by the Executive Subcommittee on June 11. The proposed PPPs were updated from SY20-21 to: include a statement on ASHRAE's efforts to develop resources to support building decarbonization; explicitly recommend use of ASHRAE's standards and guidance to reduce the risk of pathogen transmission in buildings; update the low-GWP refrigerants paragraph so that it refers to ASHRAE's work with UNEP (and to make the PPPs more international in focus); and revise the HVACR Workforce paragraph so that it also states ASHRAE's support to increase diversity in the HVACR workforce and add ASHRAE's diversity and inclusion commitment.

**MOTION:** To approve the proposed Public Policy Priorities for SY21-22, as provided in the Attachment.

Motion made by Mr. Smith on behalf of the Executive Subcommittee.

**MOTION PASSED: APPROVED BY VOICE VOTE (CNV). NO OBJECTIONS.**

### **MBOs for SY2021-2022**

Mr. Smith discussed the 9 MBOs he has established for SY21-22 (see Attachment), some of which are continuations of MBOs from this year.

### **OTHER BUSINESS**

No other business was reported.



## **RECOGNITION OF OUTGOING GAC MEMBERS**

Mr. Townsend addressed the outgoing GAC members and commended them on an excellent job, noting that they have raised the bar for subsequent years, Townsend expressed his appreciation for all that they did for GAC and ASHRAE society, nationally and internationally.

## **REMARKS FROM OUTGOING CHAIR**

Mr. Townsend providing concluding remarks, saying that it has been a pleasure to serve as Chair for the GAC. He challenged members to not just settle for good but to strive for excellence, quoting from John D. Rockefeller, “When we settle for ‘good or very good’ as our highest effort, then good becomes the enemy of great.” Townsend noted the excellent leadership for next year with Chad Smith, Darryl Boyce, Sheila Hayter and Ginger Scoggins on the committee, all who are powerful resources.

## **REMARKS FROM INCOMING CHAIR**

Mr. Smith recognized Mr. Townsend for his leadership, noting how effectively and strategically Townsend led the committee. Smith said that so much was accomplished because of Townsend’s leadership. Mr. Smith also remarked that he is looking forward to the coming year and continuing to build on the momentum of this committee. He also reminded incoming members we will be kicking off the new year with our training meetings and to be looking for the invites to those meetings.

## **NEXT COMMITTEE CONFERENCE CALL MEETING**

The next committee conference call meeting is TBD, but will likely be sometime in the Fall.

## **ADJOURN**

Mr. Hoadley moved to adjourn the meeting, and Ms. Jensen seconded the motion. The motioned passed unanimously.

Mr. Townsend adjourned the meeting at 12:04 p.m. EDT

Respectfully submitted,  
Alice M. Yates, Staff Liaison



**ACTION ITEMS**  
**GOVERNMENT AFFAIRS COMMITTEE**

**Last Updated: June 4, 2021**

#	Action	Assigned To	Due Date	Status	C/O
1	Follow-up with Ayah to get a list of government officials who received training at the Global Training Center.	Jeremy Pollack	ASAP	The Global Trainings Center sent over a list of government officials who attended webinars or trainings in 2020.  The GASC is now deliberating on the best method to engage with officials who attend these types of events going forward.	C
2	Send the revised MBO to Members Council.	Alice Yates	ASAP	Emailed.	C
3	Send PPIBs and policy positions of interest to the Building EQ Committee.	Emily Porcari	ASAP	Emailed.	C
4	Send email concerning GAC award nominations.	Emily Porcari	ASAP	Emailed.	C
5	Provide recommendations on the EHC Emerging Issue briefs through EHC Liaison Meghan McNulty.	GAC Members	Spring 2021	Still in progress, nothing final to report yet. Meghan attended the GAC PPSC and is working with Nick Clemens to stay updated on EHC.	O
6	Post on the GAC Basecamp the report from Ms. Samantha Slater of AHRI.	Alice Yates	ASAP		C



# Staff Report: Outlook and Opportunities

Virtual Annual Meeting – June 2021

Alice Yates, Director of Government Affairs

Jeremy Pollack, Manager of Federal Government Affairs

Emily Porcari, Manager of State and Local Government Affairs

Patricia Ryan, Office Manager



# Government Affairs Staff: Who Are We?



*We have a team that is ready to support you!*

Contact any of us at [GovAffairs@ashrae.org](mailto:GovAffairs@ashrae.org)



**Alice Yates**

**Jeremy Pollack**



**Emily Porcari**



**Patricia Ryan**



# Where is the ASHRAE Government Affairs Office?



Our Office: 1255 23<sup>rd</sup> Street NW, Suite 825, Washington, DC  
You are welcome to visit **when it is safe...**



# What Staff Have Been Assigned To Do



## **ASHRAE Government Affairs Mission Statement:**

- *To establish ASHRAE as a leading source for expertise in the built environment and a resource for policy-makers in the development of legislation and regulations affecting the public, the HVAC&R community, and the engineering profession.*
- To this end the ASHRAE Washington D.C. office will:
  - Build relationships between the Society and all levels of government in the United States and with the appropriate international community representatives.
  - Facilitate the transfer of technical counsel and assistance on matters affecting the public, engineering profession and ASHRAE professional community.
  - Collect, digest and disseminate to members and staff relevant information regarding current or anticipated government actions.
  - Pursue technology transfer and government funding opportunities independently or jointly with other appropriate organizations.

# Key Areas of Focus for Government Affairs Staff



- Bi-Weekly Government Affairs Updates: [sign up here!](#)
- Support and planning for Government Outreach Events
- Planning and managing Senior Officer Meetings in DC
- Tracking legislation and regulations, drafting letters and testimony, connecting members with agencies and elected officials, strengthening relationships with aligned organizations



- Supporting webinars, briefings, and hearings for policy makers
- Supporting government grant applications and contracts (new)

- **GAC Staff Support**

*Executive Subcommittee: Alice*

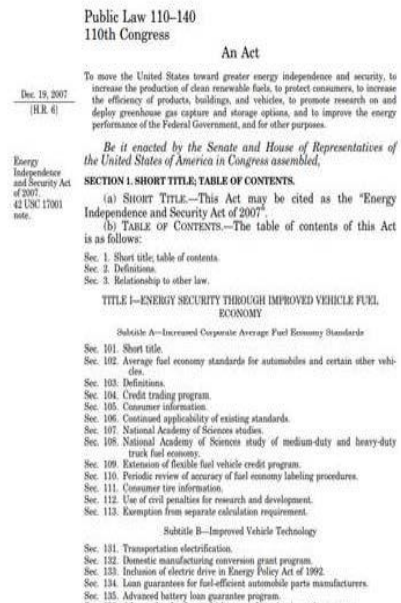
*Global Affairs: Jeremy*

*Policy & Programs: Jeremy*

*Nominating: Alice*

*Member Mobilization: Emily*

*Rules: Emily*





## OUTLOOK and OPPORTUNITIES

Buildings are increasingly a focus of policy makers:

- To meet climate and carbon goals
- To provide healthy and safe places to live, work and learn
- To bring resilience to communities

➔ **ASHRAE resources and technical expertise are in demand!**



- COVID-19

- Green Recovery
- Post-Pandemic Environment

- Climate Change

- 72% of countries have adopted a climate adaptation strategy or policy at the national level, while another 9% are in the process of developing one. (UNEP Adaptation Gap Report 2020)
- 126 countries covering 51% of global greenhouse gas emissions had adopted, announced or were considering net-zero goals.
  - Targets have continued to be updated
- Renewed focus on phasedown of HFC refrigerants



- Rejoined Paris Agreement (January)
- Set a new nationally determined contribution for the U.S. to achieve 50-52% reduction in GHGs in 2030 compared to 2005 levels (April)
- By 2030: Establish a new **net-zero emissions standard** for all new commercial buildings
- By 2035: **Cut in half** the carbon footprint of the building stock through *establishing building performance standards for existing buildings*
- By 2035: **Carbon-free power** sector
- By 2050: U.S. achieves **net-zero emissions**

# Biden Administration: Statements on Buildings



- Upgrade **4 million buildings** and weatherize **2 million homes** over 4 years
- Building investments should also improve **indoor air quality** and **environmental health** and make buildings **safer** in the face of future pandemics
- Build **zero net energy buildings** at zero net cost, including through breakthroughs in **smart** materials, appliances, and **systems** management
- Get to zero emissions through **refrigeration** and **air conditioning using refrigerants** with no global warming potential
- Upgrade and **electrify** home appliances, install more efficient windows, and cut residential energy bills
- Manufacture, install, service and maintain high-efficiency LED lighting, **electric appliances**, and advanced heating and cooling systems
- Other infrastructure policies of relevance: 500,000 new electric vehicle charging stations; all American-built buses to be zero-emission by 2030



- Established first-ever Building Performance Standards for Federal Govt Buildings  
*Could be used as a model for existing buildings nationwide*
- New Energy Star certification to be launched for Zero-Carbon Buildings
- New Energy Star standards for heat pumps (including a cold-climate designation), central air conditioners, electric water heaters, and electric vehicle chargers in commercial buildings
- \$10 million investment by DOE in research and adoption of heat pump technology
- DOE has announced several other Notices of Funding Availability: **See the GAU!**

- **117<sup>th</sup> Congress**

- The House and Senate have a Democratic majority.
  - The Senate is split with 50 Republicans and 50 Democrats (includes 2 Independents that caucus with Democrats)
  - Democrats hold the majority in the Senate due to the tie-breaking vote of the VP

- **Appropriations**

- Congress is reviewing the Biden Administration's \$6 trillion budget request for Fiscal Year 2022 and will likely make adjustments
  - Budget includes DOE & EPA Increases
- Upcoming Hearings and September 30 deadline

- **2021 Priorities:**

- Covid Recovery and Economic Relief – completed!
- Infrastructure Proposals
  - Bipartisan efforts
- Climate Change

# State and Local Outlook and Targeting Outreach



- States are receiving federal COVID relief funding, some of which may be directed towards improving building systems and IAQ
- Billions of Federal dollars are being distributed to schools through State Education Agencies; some funding can be used for HVAC upgrades – **Government outreach opportunities exist and are welcomed!**
- Legislation on reopening buildings, including prevention of legionella
  - Opportunity to advocate for Standard 188!
- Many states and cities are focusing on their climate goals, including specific goals for buildings
  - This is an opportunity for ASHRAE to provide technical expertise and build working relationships with state and local officials
  - As more jurisdictions establish or update their climate goals, look for articles in the biweekly Government Affairs Update for specific opportunities in your regions!



[GovAffairs@ashrae.org](mailto:GovAffairs@ashrae.org)



# ASHRAE's COVID-19 Resources: Relevance and Importance for Effective Government Policy

Report to the GAC – Annual Meeting  
June 16, 2021

# ETF and Government Advocacy: Lessons Learned

- ASHRAE's technical guidance produced by the ETF filled a crucial void in government policy and regulations
- Government at all levels – and across the globe – was in need of solid, unbiased technical guidance to minimize the spread of the coronavirus in buildings; this need for unbiased guidance and standards continues
- Guidance produced by the ETF was made available at the “speed of need” with the caveat that it was continually being refined and updated as new data and scientific understanding became available
- Indoor environmental quality generally remains a lesser policy focus: ASHRAE should continue to share its technical information with policy makers on this subject, even as the coronavirus subsides



# Government Outreach Summary

- More meetings and policy briefings with government officials were held this year than any other:
  - Over 30 briefings and meetings, including legislative testimony
  - 20 Government Outreach Events
  - 20 ASHRAE Letters
- 24 U.S. States and Localities have referenced ETF Guidance in their policies, regulations and statutes
- EPA, DHS, U.S. ACOE, CDC, and OSHA are referencing ASHRAE resources
- Several countries outside the U.S. are using ASHRAE's Coronavirus Guidance in their regulations and guidelines



# States Referencing ASHRAE Guidance in Policies

- Virginia Labor Standards
- California Schools Program (AB 841)
- Minnesota Preparedness Plans
- Wisconsin Guidance for Businesses
- Connecticut Sector Rules and Schools Guidance
- South Carolina – Schools
- Kentucky – Reopening Schools
- New Jersey Dept. of Education
- New York Guidelines
- Ohio Construction Commission – HVAC and Plumbing Industry Guidelines
- Vermont – School Indoor Air Quality Grant Program
- Multnomah County, Oregon – HVAC Systems
- Gwinnett County Board of Education, Georgia
- San Antonio, Texas-Schools
- Pennsylvania bill on Legionella prevention





# ASHRAE Guidance Referenced by Federal Agencies

- White House – requested technical assistance from Dr. Bahnfleth
- U.S. Department of Education – June 2021 School Reopening Guide references CDC ventilation guidance that references ASHRAE
- EPA – references ASHRAE standards and guidance
- CDC – multiple references to ASHRAE guidance
- USACE – joint development of “Alternate Care Site HVAC Guidebook”
- DHS Science and Technology Directorate – seeking technical assistance
- OSHA – references ASHRAE in its “COVID-19 Guidance on Ventilation in the Workplace”



# Global Use of ASHRAE's ETF Guidance

- Countries using ASHRAE's Coronavirus Guidance in their regulations and guidelines:

India

Saudi Arabia

United Arab

Sri Lanka

Egypt

Emirates

Pakistan

Canada

- In **March 2021**, the World Health Organization issued a “roadmap” to improve **good indoor ventilation** in the context of COVID-19; this position followed a petition from several scientists, including members of the ETF in **July 2020**



# Looking Ahead: Broader Policy Implications

- Infection control needs to be taken into consideration in non-healthcare building design
- Increased attention on indoor environmental quality and health, educational, and productivity benefits
- Coordination between energy and indoor environmental quality standards
- Research, Training/Education, Building Upgrades
- Use of Technical Guidance in Investments





ASHRAE Task Force for Building Decarbonization  
Report to the GAC  
June 16, 2021

# Basic Structure and Objectives

- Formed in Spring 2021 – Initiative of President Gulledge and President-Elect Schwedler
- Recognition that ASHRAE's long-standing focus on energy efficiency needs to be expanded to building decarbonization
- 15 Members; 9 Working Groups involving over 100 volunteers
- Meets Bi-Weekly for 2 hours on Tuesdays



# Working Groups of the TFBD

1. Research / Knowledge Hub
2. Operational Carbon
3. Embodied Carbon
4. Building Performance Standards
5. Grid-Building Intersection
6. Building Standards & Codes
7. Appliance and Equipment Standards
8. Carbon Sequestration on Building Sites
9. Training and Education



# Expected Objectives

- Providing information to policy makers on how they might achieve the goals they have established
- Providing recommendations and best practices for industry stakeholders by:
  - Identifying existing portfolio of technical resources
  - Packaging these technical resources in a useful way
  - Providing tools for energy efficiency, embodied carbon, and reducing operational carbon
  - Identifying knowledge gaps and developing resources to address those gaps



Questions?



## **REPORT FROM THE INTERNATIONAL STANDARDS INTERACTION TASK FORCE**

**George Pantelidis**

The International Standards Interaction Task Force (ISI TF) is a recently established Task Force, following the formation of the Ad Hoc Committee on the Globalization of Standards. The main scope of the committee is to make the technical content of ASHRAE standards more globally applicable and to promote its adoption in ISO, CEN and other national standard bodies.

The committee has met only 2 times so far, so it is in its early stages. The main outcome of these meetings lead to the creation of 4 task groups to get things working. These groups, which point to where this task force is aiming, are:

1. Interacting and outreach with Chapters Globally
2. Outreach to Technical Committees
3. Outreach to Project Committees
4. Tracking of Emerging Standards that Affect ASHRAE

In our last meeting, I have described that there are possible synergies and we all agreed that the cooperation with GAC is important for the TF mission. Being member of both committees, I was assigned by ISI TF as the GAC liaison.

## Status Update on GAC MBOs SY2020- 2021

**Last Updated: June 15, 2021**

MBO	Subcommittee Assigned	Status
1. Develop a 2030 vision statement for the GAC, accompanied with goals and objectives.	Executive Subcommittee	<p>An Ad-Hoc subcommittee for this MBO has been formed (list below) that identified several goals the plan should include; however, a final plan was not completed, and this MBO will be carried forward.</p> <p style="text-align: center;">Chad Smith (Team Lead)            Meghan McNulty            Colin-Laisure Pool            Nannette Lockwood            Gian Modgil            Terry Townsend</p> <p><b><i>This MBO will continue through SY21-22.</i></b></p>
2. Establish a GAC Advisory Board made up of senior staff from various government bodies; this group would advise ASHRAE on what technical resources they need.	Executive Subcommittee	<p>Tim Ashby was appointed to lead a 3-member team to address this MBO. A draft of objectives for the Advisory Panel was developed and nominations to serve in an advisory capacity have been solicited from all Chapter Chairs through the RVCs. Significant progress was made on this MBO.</p> <p><b><i>This MBO will continue through SY21-22.</i></b></p>
3. Develop a Government Affairs Training webinar and/or event for members outside the committee to increase participation. Develop chapter-to-chapter training to learn from exemplary chapters who have been successful in their government outreach, including sharing why it is beneficial for the ASHRAE members involved.	Member Mobilization	<p>The first “Office Hours” event was held in April and was a success, and an outreach “GAC Roundtable” session has been planned for the Annual Conference (June 29). MMSC recommends that “Office Hours” training be regularly scheduled through the next Society Year.</p> <p><b><i>MBO is complete, though this effort will need ongoing maintenance and development.</i></b></p>
4. Develop a general training for code officials, which could be used by chapters globally.	Executive Subcommittee	<p>Roger Jones was appointed to lead an implementation team that would hold discussions with Code Officials to determine how ASHRAE can assist them in their daily activities. A series of questions have been developed for use in these listening sessions.</p> <p><b><i>MBO is complete.</i></b></p>

MBO	Subcommittee Assigned	Status
<p>5. Identify events attended by government officials at which ASHRAE members can attend for the purpose of outreach and advocacy.</p>	<p>Global Affairs</p>	<ul style="list-style-type: none"> <li>• The Subcommittee has received a list of government officials that attended training and webinars hosted by the Global Training Center (GTC) and a generic email/introduction was drafted and can be sent to contact these officials for outreach.</li> <li>• The Subcommittee will work to get a similar list going forward from other trainings (in Europe and South America).</li> <li>• A list of relevant international organizations and events of interest to ASHRAE members has been prepared to identify more opportunities.</li> </ul>
<p>6. Identify ASHRAE resources and develop advocacy materials that can help state, provincial, federal, and global governmental entities reach their 2030/2050 goals</p>	<p>Policy &amp; Programs</p>	<ul style="list-style-type: none"> <li>• Subcommittee members have identified at least one goal for their region. Goals need to be reviewed before materials or positions are developed.</li> <li>• A list of goals has been compiled by ASHRAE staff in a spreadsheet. Subcommittee members will add to the list by end of October, focusing on elements where ASHRAE resources can help.</li> <li>• Based on a review of goals, it was decided, ASHRAE should provide more information and materials on Decarbonization. ASHRAE is creating a PPIB on Decarbonization and the subcommittee has recommended the development of a PD.</li> </ul>
<p>7. Further develop communication tools using FiscalNote software to improve information between Society and Chapters.</p>	<p>Member Mobilization</p>	<p>Several FiscalNote reports have been created, and have been shared with RVCs and the GAC committee, as well as Chapter Chairs planning outreach events. The reports and/or legislator profiles generated from FiscalNote for Arizona, Texas, Wisconsin, Minnesota, Utah, and Nebraska have been well-received as useful tools to support outreach events.</p> <p><b><i>MBO is complete and can be closed out.</i></b></p>
<p>8. Identify in which countries outside the U.S. ASHRAE Standards have been adopted or used as guidance; document 2-3 examples of how</p>	<p>Global Affairs</p>	<p>The GTC will now include a question in their post-training survey that asks attendees if they use ASHRAE standards and if so, which one. This will help fill in the list of standards</p>

MBO	Subcommittee Assigned	Status
<p>ASHRAE standards have been used globally and what types of advocacy were used which could help with such efforts in other locations.</p>		<p>used and help identify potential opportunities for outreach. Some examples of countries using ASHRAE standards have been identified and more collaboration will be developed with the new ASHRAE Task Force on International Standards.</p>
<p>9. Identify any issue for which a Position Document should be developed or for which an existing ASHRAE PD should be revised per the ROB (1.300.002) in order to be responsive to government inquiries and needs for which ASHRAE currently doesn't have the relevant information. Before any issue or addition is recommended, work with pertinent ASHRAE GAC Council representative(s) and/or liaison(s) to confirm the information isn't already being developed, potentially as a different type of resource such as a guidance document.</p>	<p>Policy &amp; Programs</p>	<ul style="list-style-type: none"> <li>• Subcommittee members have identified several areas for new PDs and updated PDs. Subcommittee is also looking at this from an international perspective</li> <li>• Recommends a PD on Decarbonization.</li> <li>• Recommends the PD on Environmental Tobacco Smoke should be amended and expanded with regards to cannabis smoke and electronic nicotine delivery.</li> <li>• Recommends the PD on Indoor Air Quality should be amended to make further reference to natural ventilation systems in emerging economies, and provide further guidance and design guides specific to natural and traditional ventilation systems. Discussing wildfires, although EHC may be addressing that issue.</li> </ul>

## PPIBs

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**MOTION:** To re-approve the Public Policy Issue Brief (PPIB) on Climate Change and the Built Environment.

Motion made by Rob Hoadley.

BACKGROUND: Minor edits were made to the PPIB on Climate Change and the Built Environment by the DRSC. This included mentioning ASHRAE's Task Force for Building Decarbonization and updating the references to ASHRAE 90.1 from the 2016 version to the 2019 version since the DOE released its new positive determination.

This PPIB was originally approved unanimously by the Policy and Programs Subcommittee on January 11, 2021 via voice vote (CNV). The PPIB was approved with minor edits by the Document Review Subcommittee on May 24, 2021 via voice vote (CNV) and was re-approved by the GAC Executive Subcommittee via voice vote (CNV) on June 11, 2021.

FISCAL IMPACT: NONE.

**MOTION:** To approve the Public Policy Issue Brief (PPIB) on STEM Education & Workforce.

Motion made by Rob Hoadley.

BACKGROUND: The PPIB on STEM Education & Workforce PPIB now includes information on ASHRAE's commitment to diversity and inclusion.

This PPIB was approved unanimously by the Policy and Programs Subcommittee on May 17, 2021 via voice vote (CNV). The PPIB was approved by the Document Review Subcommittee on May 24, 2021 via voice vote (CNV) and approved by the GAC Executive Subcommittee via voice vote (CNV) on June 11, 2021.

FISCAL IMPACT: NONE.

**MOTION:** To approve the Public Policy Issue Brief (PPIB) on Consensus Standards – Expert Solutions to Meet Global Needs.

Motion made by Rob Hoadley.

BACKGROUND: The PPIB on Consensus Standards – Expert Solutions to Meet Global Needs remains mostly unchanged from the previous SY.

This PPIB was approved unanimously by the Policy and Programs Subcommittee on May 17, 2021 via voice vote (CNV). The PPIB was approved by the Document Review Subcommittee on May 24, 2021 via voice vote (CNV) and approved by the GAC Executive Subcommittee via voice vote (CNV) on June 11,2021.

FISCAL IMPACT: NONE.

**MOTION:** To approve the Public Policy Issue Brief (PPIB) on Refrigerants and their Responsible Use.

Motion made by Rob Hoadley.

BACKGROUND: The PPIB on on Refrigerants and their Responsible Use remains mostly unchanged from the previous SY.

This PPIB was approved unanimously by the Policy and Programs Subcommittee on May 17, 2021 via voice vote (CNV). The PPIB was approved by the Document Review Subcommittee on May 24, 2021 via voice vote (CNV) and approved by the GAC Executive Subcommittee via voice vote (CNV) on June 11,2021.

FISCAL IMPACT: NONE.

Indoor Air Quality

**MOTION:** To approve the Public Policy Issue Brief (PPIB) on Indoor Air Quality.

Motion made by Rob Hoadley.

BACKGROUND: The PPIB on on Indoor Air Quality is new and was drafted mostly by the Tech Council Representative Steve Emmerich.

This PPIB was approved unanimously by the Policy and Programs Subcommittee on May 17, 2021 via voice vote (CNV). The PPIB was approved by the Document Review Subcommittee on May 24, 2021 via voice vote (CNV) and approved by the GAC Executive Subcommittee via voice vote (CNV) on June 11,2021.

**MOTION:** To approve the Public Policy Issue Brief (PPIB) on Building Energy Benchmarking, Assessments, and Performance Targets.

Motion made by Rob Hoadley.

BACKGROUND: This PPIB was previously approved by the GAC, but significant changes have since been made. This includes adding several examples of cities that have started building benchmarking programs.

This PPIB was re-approved unanimously by the Policy and Programs Subcommittee on May 17, 2021 via voice vote (CNV). The PPIB was approved by the Document Review Subcommittee on May 24, 2021 via voice vote (CNV) and re- approved by the GAC Executive Subcommittee via voice vote (CNV) on June 11,2021.



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## CLIMATE CHANGE AND THE BUILT ENVIRONMENT

### THE ISSUE

Worldwide concern for changes in the global climate has escalated as scientific evidence has become more definitive, linking increased concentrations of atmospheric greenhouse gases (GHGs) with global warming. As a result, ASHRAE's policy focus on global climate change has significantly increased.

When developing policy to combat climate change, it is important to consider that buildings and their heating, ventilating, air conditioning and refrigeration (HVAC&R) systems directly and indirectly contribute to GHG emissions. Buildings are responsible for more than 35% of global final energy use and nearly 40% of energy-related CO<sub>2</sub> emissions worldwide.<sup>1</sup> These emissions are associated with construction and the energy needed to operate buildings and building systems, and to a lesser extent indirectly through the release of refrigerants, if not properly contained. According to the United Nations Intergovernmental Panel on Climate Change (IPCC), "buildings offer immediately available, highly cost-effective opportunities to reduce energy demand, while contributing to meeting other key sustainable development goals including poverty alleviation, energy security and improved employment."<sup>2</sup> Improving the energy efficiency, and the ongoing efficient performance of building systems provide a significant opportunity for climate change mitigation.

### ASHRAE's ROLE

ASHRAE is the leading source of information and research for HVAC&R systems and building performance making this issue a key area for our members. ASHRAE's members use their expertise to help policymakers promote the implementation of energy efficient design practices and sustainable technologies that can help reduce GHG emissions. This is done most notably through ASHRAE's Task Force for Building Decarbonization, Energy Conservation Standard 90.1, existing building energy efficiency Standard 100, and the International Green Construction Code Powered by ASHRAE Standard 189.1, which addresses sustainability in buildings and building sites. ASHRAE has also published Standard 105, which provides a method for determining, expressing and comparing building energy performance and greenhouse gas emissions.

ASHRAE and its partners have published several Advanced Energy Design Guides (including Zero Energy Building Guides for K-12 Schools and Offices), which are available for free download and provide educational guidance to reduce energy consumption while achieving proper IEQ conditions.<sup>3</sup>

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<sup>1</sup> 2018 Global Status Report Towards a Zero-Emission, Efficient and Resilient Buildings and Construction Sector. United Nations Environment Programme, International Energy Agency (IEA), and Global Alliance for Buildings and Construction (GlobalABC), [https://wedocs.unep.org/bitstream/handle/20.500.11822/27140/Global\\_Status\\_2018.pdf?sequence=1&isAllowed=y](https://wedocs.unep.org/bitstream/handle/20.500.11822/27140/Global_Status_2018.pdf?sequence=1&isAllowed=y).

<sup>2</sup> Lucon, Oswaldo, and Diana Ürge-Vorsatz. "AR5 Synthesis Report: Climate Change 2014." *Chapter 9: Buildings*, United Nations Intergovernmental Panel on Climate Change, 2014, [https://www.ipcc.ch/site/assets/uploads/2018/02/ipcc\\_wg3\\_ar5\\_chapter9.pdf](https://www.ipcc.ch/site/assets/uploads/2018/02/ipcc_wg3_ar5_chapter9.pdf).

<sup>3</sup> For more information, see [www.ashrae.org/technical-resources/aedgs](http://www.ashrae.org/technical-resources/aedgs).





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ASHRAE is also in the process of developing BSR/ASHRAE Standard 228P which will set requirements for evaluating whether a building or group of buildings meets a definition of “zero energy.” With respect to refrigerants, ASHRAE also advances the HVAC&R field by performing research on low GWP refrigerants and developing safety and classification standards on refrigerants.<sup>4</sup>, developing guides and a standard for designing systems that minimize energy consumption and reduce emissions of high global warming potential (GWP) refrigerants. As part of this effort, ASHRAE supports the global phasedown of the production and consumption of refrigerants that are high-GWP HFCs, including through legislation, regulations, and policy.

### **ASHRAE's VIEW**

ASHRAE is committed to a leadership role in reducing climate change contributed to by building systems and responding to climate change experienced in the built environment. ASHRAE recommends:

- States adopt the most recent version of ANSI/ASHRAE/IES 100 for existing buildings and ANSI/ASHRAE/IES 90.1, which has been a benchmark for new commercial building energy performance in the United States and a key basis for codes and standards around the world for more than 40 years. The 2019 version of the standard is about 4.3% more energy efficient than the 2016 version.
- A full evaluation of new and existing buildings' climate impacts, carbon balance, and energy performance.
- Funding for research that improves energy efficiency/utilization in HVAC&R technology to minimize GHG emissions.
- Funding for building science research leading to advanced equipment and systems, grid-interactive designs and ability to load-shift, integration of the Internet of Things (IoT), net metering, and building based energy storage systems capable of providing dispatchable energy systems.
- Promotion of carbon and energy life-cycle- analysis to building owners to encourage sustainable building construction, operation and renewal.

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<sup>4</sup> For more information, see: <https://www.ashrae.org/technical-resources/bookstore/standards-15-34>



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## STEM EDUCATION & WORKFORCE

### THE ISSUE

Strong education in science, technology, engineering and mathematics (STEM) to develop the future supply of technicians, engineers and scientists is critical to our future well-being and standard of living. Even students pursuing non-STEM specialties need basic knowledge of scientific and technological applications for effective participation in the workforce, success in their personal lives and responsible citizenship.

Moreover, there has been increased growth in jobs related to STEM that need to be filled. The U.S. Bureau of Labor Statistics projected that 65,000 new engineering jobs will be created from 2014 to 2024.<sup>1</sup> If you include retirees, the number of new engineering job openings in the U.S. rises to 500,000.<sup>2</sup>

The engineering workforce in North America remains a male-dominated employment sector, and the share of female workers in engineering and architecture has remained relatively constant since 1990. Additionally, people of color remain under-represented in the engineering and architectural sector.

### ASHRAE's ROLE

As professionals focused on design, construction, operation and maintenance of the nation's buildings and infrastructure, and as educators of future generations of engineers, our members also recognize the importance of mentoring and helping students learn about STEM careers, which is why our members are active in their local communities and in national programs, bringing exciting science and engineering programs to students. ASHRAE is actively engaged in the Solar Decathlon, National Engineers Week and other STEM education efforts worldwide, including through its 440 active student branches.

ASHRAE is also a member of the National STEM Education Coalition, which supports new and innovative initiatives that will help improve the content, knowledge, skills and professional development of the K-12 STEM teacher workforce and informal educators. ASHRAE is dedicated to ensuring quality STEM programs for teachers and students all around the world by encouraging its members to get involved with their local school systems.<sup>3</sup>

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<sup>1</sup> Fayer, Stella, et al. *STEM Occupations: Past, Present, And Future*. U.S. Bureau of Labor Statistics, Jan. 2017, [www.bls.gov/spotlight/2017/science-technology-engineering-and-mathematics-stem-occupations-past-present-and-future/pdf/science-technology-engineering-and-mathematics-stem-occupations-past-present-and-future.pdf](http://www.bls.gov/spotlight/2017/science-technology-engineering-and-mathematics-stem-occupations-past-present-and-future/pdf/science-technology-engineering-and-mathematics-stem-occupations-past-present-and-future.pdf).

<sup>2</sup> Fayer, Stella, et al. *STEM Occupations: Past, Present, And Future*. U.S. Bureau of Labor Statistics.

<sup>3</sup> For more information, see <https://www.ashrae.org/communities/student-zone/k-12-activities>.



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ASHRAE's Board of Directors has committed to promoting diversity and inclusion in all levels of the society. This effort will include efforts to promote STEM education and training to children, schools, and educators, in a way that will attract, train, and retain more women, disabled, LGBTQ, and people of all socioeconomic and ethnic backgrounds to engineering education and employment.

### **ASHRAE's VIEW**

Future generations need to possess the skills and critical competencies necessary to be successful in a highly competitive, global and technologically sophisticated economy. We must work cooperatively to ensure that students receive the STEM training essential for future success. ASHRAE encourages policymakers to implement the following recommendations:

- Increase government funded research to improve teaching and learning of STEM concepts and critical thinking skills.
- Recruit, train and retain qualified STEM teachers through the development of programs recognizing educators who excel in STEM education and incentives that encourage the best and brightest scientists and engineers to teach.
- Foster partnerships among educational institutions, industry and non-profit organizations and their members to introduce students of all backgrounds to STEM career opportunities.
- Encourage the adoption of curriculum standards that cultivate high student performance; the development of curricula that foster creativity, experiential problem solving and critical thinking; and the development of assessments aligned with these standards and curricula.
- Create opportunities and incentives for women to pursue STEM coursework and careers.
- Encourage diversity in STEM education and the engineering workforce.



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## **CONSENSUS STANDARDS: EXPERT SOLUTIONS TO MEET GLOBAL NEEDS**

### **THE ISSUE**

Voluntary consensus standards developed by private organizations are essential for a sound global economy and to facilitate global commerce. Standards foster building technology innovation by providing a transparent baseline and needed metrics for assessing how that technology can impact building design and performance. They are necessary for comparing technologies in the expanding global marketplace. U.S. Federal policy recognizes the value of voluntary consensus standards by requiring their use in regulations when consistent with agency policy and appropriate for agency purposes.<sup>1</sup>

Voluntary consensus standards are developed through the participation of any and all interested and affected stakeholders including manufacturers, users, advocacy organizations and representatives of government and academia. Standards accreditors such as the American National Standards Institute (ANSI), the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) follow several principles such as including consensus, openness, balance, transparency and due process, and ensure that designated standards development organizations follow these principles and processes.

Copyright protection of voluntary consensus standards is critical to the continuation of the development and maintenance of standards. Without copyright protection for standards, resource-limited government agencies would have to undertake the difficult and expensive task of replicating the system of standards development organizations, or the standards-development process would be put into the hands of regulated parties with uncertain outcomes.

### **ASHRAE's ROLE**

ASHRAE develops and publishes robust standards; many of which are adopted into building codes. ASHRAE standards establish recommended practice in the areas of indoor air quality, energy conservation and management, building water systems, high-performance buildings and others. ASHRAE's standard development process is rigorous, and it is one of only six standards-developing organizations in the U.S. that can self-certify that its standards have followed ANSI's procedures. ASHRAE also serves on U.S. Technical Advisory Groups (TAGS) for ISO Committees and in the role of international secretariat for ISO Technical Committees to help ensure that ASHRAE views are represented. These standards are supported by technical

committees that develop publications and educational materials to assist in the application of

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<sup>1</sup> The National Technology Transfer and Advancement Act of 1995 (P.L. 104-113) (NTTAA) and OMB Circular A-119



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ASHRAE standards. ASHRAE standards are developed by volunteers from around the globe under strict ethical and non-commercialism guidelines.

### **ASHRAE's VIEW**

Use of voluntary consensus standards at all levels of government are a benefit to society. For this reason:

- Government entities should continue to support voluntary consensus standards in laws and regulations, which will protect public health and safety, improve commerce and save taxpayers money.
- Agencies should work with standards developers and industry to identify situations where societal interests could be addressed through the use of voluntary consensus standards and work together for common solutions.
- Governments should continue to foster and support the unique character and strengths of the public-private partnership in standards development as they pursue trade and other international agreements, regulatory harmonization and legislative and regulatory approaches.
- Governments should support policies, both domestically and internationally, which ensure the continued ownership and control of the copyrights and trademarks of standards developers.
- Government agencies should increase participation in the development of voluntary consensus standards, by encouraging government experts to participate, through release time and expenses incurred.
- Governments should update legislation and regulations to reference the latest versions of standards since they reflect the latest technical advances.



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## REFRIGERANTS AND THEIR RESPONSIBLE USE

### THE ISSUE

ASHRAE promotes the responsible use of refrigerants during the processes of design, manufacturing, operation and servicing of systems, as well as proper management at the end of equipment life. However, choosing a refrigerant for a given HVAC&R application has become increasingly complex due to their direct and indirect environmental impacts in addition to societal implications they may have based on performance, cost-effectiveness and safety of employees and the public.

Since the implementation of the 1987 Montreal Protocol, and the Kigali Amendment to the Protocol in 2016, transitions to lower global warming potential (GWP) refrigerants are on the rise. This has led to an increase in the development and utilization of flammable refrigerant options that have low-GWP characteristics to meet targets. As a result, safety standards need to be reassessed and updated to reflect the increasing interest in flammable or mildly flammable working fluids.

### ASHRAE's ROLE

With its technical expertise, ASHRAE plays a key role in guiding the choices that must be made for the management of new refrigerants due to the environmental and societal consequences posed by refrigerant management. ASHRAE contributed to the successful effort to phase out ozone depleting refrigerants, and it has a significant role in encouraging the proper and safe use of refrigerants going forward. ASHRAE develops voluntary standards and guidelines governing the application and use of all types of refrigerants. These technical requirements are being adopted into various codes and regulations.

As governments commit to using lower GWP refrigerants, ASHRAE wants to ensure the safe application of these refrigerants, including through the adoption of ASHRAE Standard 15 – 2019, *Safety Standard for Refrigeration Systems*, and Standard 34 – 2019, *Designation and Classification of Refrigerants*. Recent updates to these standards were made following a \$5.2 million research program, with financial contributions from DOE (\$3 million), ASHRAE (\$1.2 million) and AHRI (\$1 million), as part of an ongoing global effort to phase out the use of high-GWP refrigerants and identify appropriate climate-friendly alternatives.

### ASHRAE's VIEW

ASHRAE believes the selection of refrigerants and their operating systems should be based on a holistic analysis of multiple criteria. These criteria include energy efficiency and performance attributes, environmental impacts, employee and public safety and economic considerations.

To limit impacts on the environment, emissions of refrigerants must be reduced through research, education, improved design, manufacturing/construction of equipment, field commissioning,

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maintenance procedures, decommissioning and enforcement of applicable standards and regulations.

ASHRAE is committed to a leadership role in reducing climate change contributed to by building systems and responding to climate change experienced in the built environment. As part of this effort, ASHRAE supports the global phasedown of the production and consumption of refrigerants that are high-GWP HFCs, including through legislation, regulations, and policy.

Where possible, refrigerants should be safely recovered for reuse, recycle, reclamation or destruction during service or at the end of the life of the equipment. Refrigerant inventory and management programs should be implemented to closely track refrigerant use.

ASHRAE encourages and supports ongoing efforts to develop new refrigerants and improve the application of existing refrigerants to meet these criteria.





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## INDOOR AIR QUALITY

### THE ISSUE

Indoor air quality (IAQ) refers to the types and concentrations of airborne contaminants found in buildings. Indoor air is a dominant pathway for exposure to airborne contaminants given that people spend the majority of their time indoors and indoor air commonly contains numerous contaminants originating from both indoor and outdoor sources. Many of the contaminants impact health, comfort, well-being, learning, sleep, and work performance.

For these reasons, it is important that IAQ is considered in the design, construction and operation of buildings and HVAC systems. Cost-benefit analyses have estimated that the health and economic benefits of improved IAQ are far greater than the costs of implementing these improvements. There are three widely accepted approaches to improving IAQ – Source Control, Ventilation, and Air Cleaning. Many strategies exist within these approaches that can help achieve good IAQ with lower energy impacts while still maintaining thermal comfort.

### ASHRAE's ROLE

IAQ has long been a critical issue for ASHRAE and its members because of the connection to ventilation and other HVAC systems in buildings. ASHRAE provides technical resources, coordinates and funds research, organizes conferences, and educates practitioners about IAQ.

ASHRAE has developed and continues to support standards, guidelines, and other resources related to improving IAQ. For example, ASHRAE promulgates the following standards and guides that specifically address IAQ:

- *ANSI/ASHRAE Standard 62.1, Ventilation for Acceptable Indoor Air Quality.* This Standard establishes ventilation and other IAQ related requirements for buildings other than residential and health care. Its outdoor air ventilation rate requirements have been adopted into the International Mechanical Code and Uniform Mechanical Code, the two most common model building codes in the US. The standard is also referenced by most green commercial building programs including LEED.
- *ANSI/ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings.* This Standard covers residential buildings. Ventilation requirements from this standard have been adopted into codes, including California's Title 24, and into LEED for Homes and the U.S. Environmental Protection Agency's (EPA) Indoor airPlus program.
- *ANSI/ASHRAE/ASHE Standard 170, Ventilation of Health Care Facilities.* Standard 170 brought together several documents used throughout North America into a single standard. It is now widely used in building codes for ventilation requirements in hospitals and other health care facilities.

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- ANSI/ASHRAE/ICC/USGBC/IES *Standard 189.1, Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings*. Developed in conjunction with USBGC, the International Code Council and Illuminating Engineering Society (IES), this standard provides IAQ requirements beyond those in Standard 62.1.
- *ASHRAE Indoor Air Quality Guide – Best Practices for Design, Construction, and Commissioning* and *ASHRAE Residential Indoor Air Quality Guide: Best Practices for Acquisition, Design, Construction, Maintenance and Operation*. These Guides present best practices for design, construction, commissioning, operation and maintenance that have proven successful in building projects to achieve good IAQ.
- 2017 ASHRAE Handbook Fundamentals – covers basic principles and data used in the HVAC&R industry including indoor air quality. The ASHRAE Technical Committees that prepare these chapters provide new information, clarify existing content, delete obsolete materials, and reorganize chapters to make the Handbook more understandable and easier to use.
- [Damp Buildings, Human Health, and HVAC Design](#) – This report provides a summary of what is understood about dampness-related health risks in buildings as well as suggestions for HVAC system designers that can help avoid such risks.

### ASHRAE's VIEW

ASHRAE's view is that achieving and maintaining good IAQ should be included in all decisions that affect the design and operation of buildings and HVAC systems, including efforts to improve building energy efficiency, sustainability and resiliency. ASHRAE's IAQ standards should be adopted by building codes and regulations to enhance building purpose and improve occupant health, productivity and well-being.

ASHRAE recommends fundamental and applied IAQ research and standards development in the following areas:

- The relationship of ventilation rates and contaminant concentrations to occupant health, comfort, well-being, learning outcomes and work performance.
- Approaches to improving IAQ beyond dilution ventilation, e.g., air cleaning and source control.
- Development of tools to allow economic valuation of IAQ benefits for individual buildings and groups of buildings.
- Development of monitoring and HVAC equipment to automatically control IAQ by measurement of contaminants.
- Development of diagnostics for commissioning and maintenance of ventilation and related IAQ systems.
- The role of IAQ in building sustainability and resilience.
- Development of IAQ control systems and solutions that contribute to other building goals including reducing energy use and greenhouse gas emissions and supporting grid integration.

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One year after approval



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- Research on new contaminants of concern and development of technologies and approaches to address them.



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## **BUILDING ENERGY BENCHMARKING, ASSESSMENTS, AND PERFORMANCE TARGETS**

### **THE ISSUE**

Heating, ventilation, air conditioning, and refrigerating (HVAC&R) account for about 61% of commercial building site energy use.<sup>1</sup> While new buildings have realized improved energy performance, existing buildings represent the greatest opportunity for energy use performance improvement within the sector. Improving the energy performance of existing buildings requires the availability of a robust database of building energy data. Without understanding how a building is performing, it is impossible to improve the building's energy footprint.

To address this concern, building energy benchmarking has become a critical tool for quantifying and evaluating building operational energy use patterns in order to develop the most effective ways to reduce energy use in a city or state's building stock. In addition, better understanding of true energy performance is needed; a building may be designed as energy efficient, but its operations may prove otherwise.

Over 30 US and Canadian cities have building energy benchmarking programs.<sup>2</sup> Some jurisdictions require actions beyond benchmarking, from performing energy assessments (audits, tune-ups, or retrocommissioning) to meeting performance targets (maximum energy use or carbon emissions). Municipalities such as Montréal, Dallas, Atlanta, and New York City have set aggressive carbon reduction goals for existing buildings that will require accurate benchmarking to determine emissions and energy savings.

### **ASHRAE's ROLE**

ASHRAE disseminates credible evidence-based practices and technical information to professionals across the building sector by developing standards, guidance and educational resources informed by robust data on the actual energy performance of buildings. ASHRAE's tools and resources include:

- Benchmarking:
  - **ASHRAE Standard 105** provides a method for determining and comparing building energy performance and greenhouse gas emissions.
  - **ASHRAE Standard 214** provides uniformity in the building energy labeling and disclosure process.

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<sup>1</sup> Includes water heating; *2012 Commercial Building Energy Consumption Survey: Energy Usage Summary*. U.S. Energy Information Administration, 18 March 2016, <https://www.eia.gov/consumption/commercial/reports/2012/energyusage/>

<sup>2</sup> *Comparison of U.S. Commercial Building Energy Benchmarking and Transparency Policies*. Institute for Market Transformation, September 2020, <https://www.imt.org/resources/comparison-of-u-s-building-performance-standards/>



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**ASHRAE Standard 228P:** *Standard Method of Evaluating Zero Energy Building Performance* provides a consistent method of expressing qualifications for zero net energy and zero net carbon buildings associated with the design of new buildings and the operation of existing buildings.

- Energy Assessments:
  - **ASHRAE Standard 211** establishes consistent practices for conducting and reporting energy audits for commercial buildings. *Referenced by ordinances in Atlanta, GA; Boulder, CO; Los Angeles, CA; New York, NY; and San Francisco, CA.*
- Building performance targets:
  - **ASHRAE Standard 100** sets energy use intensity (EUI) benchmarks for existing buildings in the commercial and residential sector and establishes methods for determining opportunities for improvement in EUI leading to compliance with the standard benchmarks. *Referenced by Washington State's Clean Buildings Act of 2019.*
  - **ASHRAE's Building EQ<sup>3</sup>** program, a building performance tool, calculates a building's energy performance in relation to other similar buildings, identifies the gap between "as designed" potential and actual performance in operation, and provides recommendations to reduce energy use. Building EQ can be used to publicly display building energy use and comply with disclosure requirements.

ASHRAE certification programs were developed to meet the industry needs of today and provide value to thousands of built-environment professionals, employers, and building owners. Certifications like Building Commissioning Professional (BCxP) and Building Energy Assessment Professional (BEAP) are recognized by the U.S. Department of Energy (DOE) as meeting the Better Buildings Workforce Guidelines (BBWG) and are used frequently by local jurisdictions to designate who is qualified to perform benchmarking and energy assessments.

### **ASHRAE's VIEW**

Energy metrics that are widely accepted, robust, and validated, are critical to achieving desired policy objectives including benchmarking, code compliance and investment decisions. Standardized procedures for energy performance assessments ensure an appropriate level of rigor and scope of work. Within a building owner's portfolio or across a city's building stock, decision-makers need consistent language, metrics, and procedures to effectively communicate goals, evaluate potential investments, and measure success. ASHRAE remains dedicated to sharing technical resources with policymakers to support legislative and regulatory solutions that improve building energy efficiency.

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<sup>3</sup> For more information, see <https://www.ashrae.org/technical-resources/building-eq>

**MOTION:** To amend the Public Policy Issue Brief (PPIB) on Environmental Tobacco Smoke by removing the following paragraph:

“There are three general cases of space-use and smoking activity in sequence from most to least effective in controlling ETS exposure: 1) allowing smoking only in isolated rooms; 2) allowing smoking in separate, but not isolated spaces; and 3) totally mixing occupancy of smokers and nonsmokers. These approaches do not necessarily account for all circumstances.”

Motion made by Rob Hoadley.

BACKGROUND: Minor edits are being suggested following comments by Larry Schoen, who was the Chair for ASHRAE’s Environmental Tobacco Smoke Position Document.

This PPIB was originally approved unanimously by the Policy and Programs Subcommittee on January 11, 2021 via voice vote (CNV). The PPIB was approved by the Document Review Subcommittee on May 24, 2021 via voice vote (CNV).

FISCAL IMPACT: NONE.



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## ENVIRONMENTAL TOBACCO SMOKE

### THE ISSUE

While indoor smoking has become less common in recent years in many countries, exposure to Environmental Tobacco Smoke (ETS) continues to have significant health and cost impacts. Researchers have investigated the health and irritant effects among non-smokers exposed to tobacco smoke in indoor environments. Such exposure is also known as passive smoking and as involuntary exposure to secondhand smoke. A number of national and global health research groups and agencies have concluded, based on the preponderance of evidence, that exposure of non-smokers to tobacco smoke causes specific diseases and other adverse effects to human health, most significantly cardiovascular disease and lung cancer. No cognizant authorities have identified an acceptable level of ETS exposure to non-smokers, nor is there any expectation that further research will identify such a level.

Despite extensive evidence of such harm and the well-documented benefits of smoking bans, many locations worldwide still lack laws and policies that provide sufficient protection. In many locations, laws and policies are only partially protective, permitting smoking in certain areas of buildings or specific building types including casino, entertainment and multifamily housing.

### ASHRAE's ROLE

Providing healthy and comfortable indoor environments through the management of indoor air quality is a fundamental goal of building and HVAC design and operation. ASHRAE has long been active in providing engineering technology, standards and design guidance in support of this goal. For example, ANSI/ASHRAE Standards 62.1 and 62.2 are standards that specify minimum ventilation rates and other measures in order to minimize adverse health effects for occupants. Therefore, the health effects of indoor exposure to emissions from cigarettes, cigars, pipes and other tobacco products are relevant to ASHRAE.

### ASHRAE's VIEW

Exposure to ETS can be reduced through a variety of strategies, but they do not completely eliminate exposure to ETS. Only an indoor smoking ban, leading to near zero exposure, provides effective control, and only such bans have been recognized as effective by health authorities. While there are no engineering design issues related to this approach, the existence of outdoor smoking areas near the building and their potential impacts on entryway exposure and outdoor air intake need to be considered.

~~There are three general cases of space-use and smoking activity in sequence from most to least~~

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~~effective in controlling ETS exposure: 1) allowing smoking only in isolated rooms; 2) allowing smoking in separate, but not isolated spaces; and 3) totally mixing occupancy of smokers and nonsmokers. These approaches do not necessarily account for all circumstances.~~

Because of ASHRAE's mission to act for the benefit of the public, it encourages lawmakers, policymakers and others who exercise control over buildings, to eliminate smoking inside and near buildings. ASHRAE also recommends:

- That building design practitioners work with their clients to define their intent, where smoking is still permitted, for addressing ETS exposure in their building and educate and inform their clients of the limits of engineering controls in regard to ETS.
- That multifamily buildings have complete smoking bans inside and near them in order to protect nonsmoking adults and children.
- That further research be conducted by cognizant health authorities on the health effects of involuntary exposure in the indoor environment from smoking cannabis, using hookahs, using Electronic Nicotine Delivery Systems (ENDS), and engaging in other activities commonly referred to as vaping or using e-cigarettes.

TRACKING GOVERNMENT OUTREACH DAYS SY2020-2021

**PROGRESS CHART**

	Target	Held	Scheduled	Planned	Delta
City/Local	22	16	1	1	-4
State	25	17	2	3	-3
U.S. Congressional	16	7	0	17	8
Global	15	28	0	1	14
In-Person	33	21	1	13	2
Virtual	45	47	2	9	13
<b>Total</b>	<b>78</b>	<b>68</b>	<b>3</b>	<b>22</b>	<b>15</b>

Note: Delta assumes that ALL planned and scheduled events are held (negative indicates that we are behind the goal).

SY20-21 SUMMARY TOTALS (as reported to date):	Number of Attendees (ASHRAE Members)	Number of Meetings	Number of Events
Local	78	16	16
State	56	33	17
Federal	14	7	7
Global	138	55	28
<b>TOTAL:</b>	<b>286</b>	<b>111</b>	<b>68</b>

*In Comparison*

PREVIOUS YEAR (SY 2019-2020)	Number of Attendees (ASHRAE Members)	Number of Meetings	Number of Events
State and Local	191	138	27
Federal	32	10	10
Global	48	17	13
<b>TOTAL:</b>	<b>271</b>	<b>165</b>	<b>50</b>



# Government Outreach Days (SY20-21)

## PROGRESS CHART

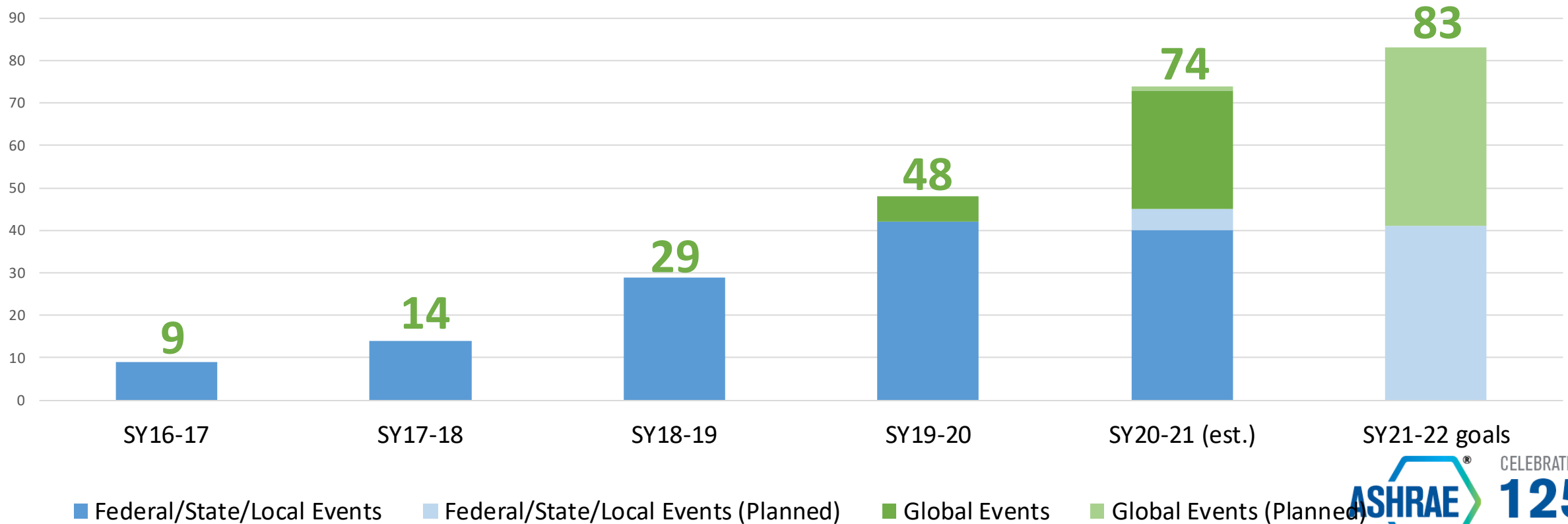
	Goal	Held	Scheduled	Planned	Delta
<b>City/Local</b>	22	16	1	1	-4
<b>State</b>	25	17	2	3	-3
<b>U.S. Congressional</b>	16	7	0	17	8
<b>Global</b>	15	28	0	1	14
<b>Total</b>	<b>78</b>	<b>68</b>	<b>3</b>	<b>22</b>	<b>15</b>

\*Total to date, as of June 4, 2021.



# Government Outreach Events: Trending UP!

\*This includes the total SY20-21 events and a portion of the planned events to date as of June 4, 2021, and the total goals for SY21-22, as submitted by each region.



SUMMARY OF GOVERNMENT OUTREACH EVENTS SY2020-2021								
LOCAL	Location	Date	Region	Number of Attendees (ASHRAE Members)	Number of Meetings	Govt Outreach Form Submitted?	Note if Virtual	Comments
<b>Held</b>	St. Paul Public Schools	8/10/2020	6	1	1	yes	virtual	Epidemic Task Force, Educational Facilities Building Readiness
	Gwinnett County Board of Education, Georgia	8/20/2020	4	1	1	yes	virtual	Testimony before the School Board
	Johnson County Building Officials Group meeting	September	9	1	1	no	virtual	Kansas City Chapter of ASHRAE has become a trusted partner to their code official group and attends the monthly meetings
	Houston	9/10/2020	8	50	1	yes	virtual	meeting with Houston Building officials and AIA re: energy code enforcement
	Atlanta Regional Commission	9/29/2020	4	1	1	yes	virtual	meeting with the Atlanta Regional Commission
	Johnson County Building Officials Group meeting	October	9	1	1	no	virtual	Kansas City Chapter of ASHRAE has become a trusted partner to their code official group and attends the monthly meetings
	City of St. Paul	10/20/2020	6	11	1	yes	virtual	meeting with City of St. Paul's Chief Resilience Officer
	Johnson County Building Officials Group meeting	November	9	1	1	no	virtual	Kansas City Chapter of ASHRAE has become a trusted partner to their code official group and attends the monthly meetings
	Johnson County Building Officials Group meeting	December	9	1	1	no	virtual	Kansas City Chapter of ASHRAE has become a trusted partner to their code official group and attends the monthly meetings
	Johnson County Building Officials Group meeting	January	9	1	1	no	virtual	Kansas City Chapter of ASHRAE has become a trusted partner to their code official group and attends the monthly meetings
	Johnson County Building Officials Group meeting	February	9	1	1	no	virtual	Kansas City Chapter of ASHRAE has become a trusted partner to their code official group and attends the monthly meetings
	City of Milwaukee	2/3/2021	6	2	1	yes	virtual	conversation about how ASHRAE can help the City of Milwaukee
	City of Seattle	2/22/2021	11	3	1	yes	virtual	met with energy code official for City of Seattle to introduce students to building codes and ASHRAE Standards
	Johnson County Building Officials Group meeting	March	9	1	1	no	virtual	Kansas City Chapter of ASHRAE has become a trusted partner to their code official group and attends the monthly meetings
	Johnson County Building Officials Group meeting	April	9	1	1	no	virtual	Kansas City Chapter of ASHRAE has become a trusted partner to their code official group and attends the monthly meetings
	Johnson County Building Officials Group meeting	May	9	1	1	no	virtual	Kansas City Chapter of ASHRAE has become a trusted partner to their code official group and attends the monthly meetings
	<b>Total Local Held:</b>	<b>16</b>		<b>78</b>	<b>16</b>		<b>16</b>	
<b>Scheduled</b>	Johnson County Building Officials Group Meeting	June	9	1	1		virtual	Kansas City Chapter of ASHRAE has become a trusted partner to their code official group and attends the monthly meetings
	<b>Total Local Scheduled:</b>	<b>1</b>		<b>1</b>	<b>1</b>		<b>1</b>	
<b>Planned</b>	Course for Southeast Wisconsin Utilities	upcoming	6	1	1	no	yes	COVID-related training for SE Wisconsin utilities- the expected audience is 50-100 facility operations and maintenance personnel
	<b>Total Local Planned:</b>	<b>1</b>		<b>1</b>	<b>1</b>		<b>1</b>	
<b>STATE</b>								
<b>Held</b>	Michigan State Dept. of Education	8/11/2020	5	1	1	yes	virtual	met with education officials re: ASHRAE's COVID-19 guidance
	Program Managers of Minnesota State Facilities	8/13/2020	6	1	1	yes	virtual	shared ASHRAE Building Readiness Guide for Schools
	Michigan State Dept. of Education	8/25/2020	5	3	1	yes	virtual	met with education officials re: ASHRAE's COVID-19 guidance
	Oklahoma Sen. Dave Rader	11/30/2020	8	3	1	yes		discussed ASHRAE 90.1 standards for Oklahoma energy code inclusion and ETF guidance for school reopenings
	Virginia Del. Dawn Adams, District 68	1/7/2021	3	2	1	no	virtual	Richmond Chapter member met with Del. Adams to introduce ASHRAE and share our COVID-19 resources.

	Virginia Sen. Hashmi, District 10	1/11/2021	3	1	1	no	virtual	Richmond Chapter member will meet with Sen. Hashmi to introduce ASHRAE and share our COVID-19 resources.
	Minnesota Rep. Long	2/24/2021	6	3	1	yes	virtual	Interested in preliminary determination on 90.1-2019
	Oklahoma Uniform Building Code Commission	2/24/2021	8	9	1	yes	virtual	Update of Oklahoma energy code and incorporation of ASHRAE 90.1 standards for energy code adoption
	Nebraska state senators	2/25/2021	9	5	6	yes	virtual	Discussed various proposed bills
	Oklahoma state legislators	3/3/2021	8	5	5	yes		Quickly/briefly educating our congressmen/women on ASHRAE; also discussed SB148, OUBCC and HB1818
	Maryland Commission on Climate Change meeting	3/18/2021	3	2	1	no	virtual	ASHRAE members invited to participate in Buildings Work Group
	Wisconsin Department of Health Services	3/22/2021	6	2	1	yes	virtual	Discussed IAQ and ASHRAE's COVID-19 schools guidance
	Oklahoma state legislators	3/23/2021	8	10	8	yes	some virtual, some in person	discussed ETF guidance, along with SB 148 and HB 1818
	Minnesota Rep. Reyer	4/7/2021	6	2	1	yes	virtual	her constituents have been asking about climate adaptation
	Minnesota Sen. Pappas	4/16/2021	6	3	1	yes	virtual	interested in equity, education, STEM
	Maryland Commission on Climate Change meeting	4/28/2021	3	3	1	no	virtual	ASHRAE members invited to participate in Buildings Work Group
	Minnesota State Decarbonization Resilience Meeting	4/30/2021	6	1	1	yes	virtual	reached out to MN chapter about building decarbonization
	<b>Total State Held:</b>	<b>17</b>		<b>56</b>	<b>33</b>		<b>15</b>	
<b>Scheduled</b>								
	Arkansas	TBD	8 (possibly 7)				virtual	meetings with State Engineer and Code Inspectors re: COVID guidance
	Oklahoma	March	8					
	<b>Total State Scheduled:</b>	<b>2</b>		<b>0</b>	<b>0</b>		<b>1</b>	
<b>Planned</b>								
	Saskatchewan Provincial Government	early 2021						
	West Virginia	early 2021					virtual	
	Arkansas	TBD	8 (maybe 7)				virtual	meetings with code officials
	<b>Total State Planned:</b>	<b>3</b>		<b>0</b>	<b>0</b>		<b>2</b>	
<b>FEDERAL</b>								
<b>Held</b>	Sen. Martin Heinrich, New Mexico	8/11/2020	9	4	1	no	virtual	
	Sen. Joe Manchin, West Virginia	10/30/2020		1	1	no	virtual	Held with other orgs
	Sen. Tina Smith, Minnesota	12/4/2020		1	1	yes	virtual	
	Rep. Carolyn Bourdeaux	2/16/2021		2	1	no	virtual	
	Sen. Joni Ernst	4/1/2021		2	1			
	Rep. Cindy Axne	4/1/2021		2	1			
	Sen. Tina Smith, Minnesota	5/11/2021		2	1		virtual	
	<b>Total Federal Held:</b>	<b>7</b>		<b>14</b>	<b>7</b>		<b>5</b>	
<b>Scheduled</b>								
	<b>Total Federal Scheduled:</b>	<b>0</b>		<b>0</b>	<b>0</b>		<b>0</b>	
<b>Planned</b>	Rep. Ilhan Omar	March		1	1		1	
	Rep. Hinson (IA)	March		1	1			
	Rep. Rush (IL)	March		1	1			
	Rep. Cindy Axne	March		1	1			
	Senator Ernst	March		1	1			
	Senator Mark Kelly	March		1	1		1	
	Senator Richard Burr	April		1	1		1	
	Rep. John Katko	April		1	1		1	
	Senator James Lankford	March		4	1		1	
	Rep. Kurt Schrader	June		1	1			
	Senator John Hickenlooper	April		1	1			
	Senator Raphael Warnock	March		1	1			
	Rep. Carolyn Bourdeaux	March		1	1			
	Senator Alex Padilla	June		1	1			
	Rep. Sam Graves	April		1	1			
	Sen. Shelley Capito	April		1	1			
	Rep. Rosa DeLauro	April		1	1			
	<b>Total Federal Planned:</b>	<b>17</b>		<b>20</b>	<b>17</b>		<b>5</b>	
<b>GLOBAL</b>								
<b>Held</b>	Halton District School Board, Toronto, Canada	8/13/2020	2	5	1	yes	Virtual	answered questions from school board about Filtration, Ventilation, CO2 levels
	India (Chandigarh Chapter) - Panel Discussion on "Energy Efficiency in Commercial & Residential Buildings"	8/14/2020	RAL	3	1	No	Virtual	Panelists represented several government agencies and municipalities. The event was attended by more than 250 professionals.

	York Catholic District School Board, Toronto, Canada	8/26/2020	2	1	1	yes	Virtual	Discussion about ASHRAE reopening guidelines, filtration, Humidity, Temp , CO2, Air Changes
	Ontario School Boards, Canada	9/2/2020	2	6	1	yes	Virtual	130 total participants; a follow up document was sent with Chapter's responses to 55 questions
	New Brunswick/PEI	9/21/2020	2	1	1	yes	Virtual	Member of Parliament Atwin was very interested to discuss building energy efficiency.
	Government of Goa, India	9/26/2020	RAL	1	1	no		received thank you note from government officials from Windsor-Essex as well as London and its surrounding areas
	Windsor and London	10/20/2020	14	46	1	yes	virtual	Met with Greening Health Care Climate Challenge Network re: Operating rooms, anterooms, other adjacent rooms, with respect to differential pressures.
	Toronto Chapter	10/27/2020	2	4	1	yes	Virtual	Met with Toronto District School Board UHN, University Health Network, Toronto Community Housing, 3 Universities.
	Toronto Chapter	11/6/2020	2	2	1	yes	Virtual	Meti with Ministry of Production and UNIDO
	Ecuador	11/6/2020	12	6	1	no		Met with Member of Parliament Paul Manly. Meeting was an introduction to ASHRAE and the ETF.
	Vancouver, Canada	11/10/2020	11	1	1	yes	virtual	Discussed reducing GHG emissions from refrigerants.
	Paraguay, Ministry of Sustainable Development	12/3/2020	12	4	1	yes	virtual	discussed systems for Air Treatment in Health Care Facilities
	Argentina Chapter, Buenos Aires Section	12/9/2020	12	4	1	yes	Virtual	discussed Energy Efficiency - Air Conditioners - Specifications and labeling
	Argentina Chapter, Bolivia Section	12/30/2020	12	1	1	yes	virtual	Met with MPPs. Joint outreach with HRAL
	Queens Park, Canada	2/2/2021	11	14	9	yes	virtual	met with MP David Piccini, along with HRAI and ORAC (Ontario Refrigeration and Air Conditioning Contractors)
	Toronto Chapter	2/10/2021	2	2	1	yes	Virtual	Met with Goa Chief Minister to discuss 90.1
	Goa, India	2/18/2021	RAL	3	1	no	in-person	met with Ontario Minister of Environment, Conservation and Parks, along with HRAI and ORAC; asked him to consider BEQ for existing govt buildings
	Toronto Chapter	2/19/2021	2	1	1	yes	Virtual	Met with Ministry of Economic Development and Production of the Autonomus City of Buenos Aires re: COVID-19
	Argentina Chapter	4/6/2021	12	1	1	yes	Virtual	Discussed EU Energy Performance Certificates and Building EQ
	Hellenic Chapter Meeting with European Commission and Greek Ministry of Environment and Energy	4/14/2021	14	5	1	yes	Virtual	ASHRAE NAC presented ASHRAE's position on Environmental Tobacco and Smoke (ETS)
	Northern Alberta Chapter	4/28/2021	11	3	1	yes	Virtual	Mr Rajiv Samant , Executive Engineer , Electricity Dept. Govt. of Goa.
	Goa, India - ASHRAE Mumbai Chapter	4/29/2021	RAL	2	1	no	in person	The Government of Goa on November 05, 2020 has issued Draft Goa Energy Conservation Building Code Rules, 2020 (Rules) for efficient use of energy and its conservation in the building or building complexes.
	MP Richard Bragdon, Halifax	5/4/2021	2	3	1	yes	Virtual	reached out to him with information on residential ventilation, decarbonization, and ASHRAE involvement in Canada.
	MP Richard Cannings, Vancouver	5/4/2021	11	2	1	yes	Virtual	Follow up with ASHRAE education on Standards and guidelines for building design and operation.
	MP Patrick Weiler, Vancouver	5/4/2021	11	2	1	yes	Virtual	Introduced him to Standard 90.1, 90.2, and 100
	multiple MPs, Windsor	5/4/2021	2	12	19	yes	Virtual	Along with HRAI members, met with multiple MPs
	MP Zimmer and Policy Advisor to the Minister of Environment	5/4/2021	2	1	2	yes	Virtual	Interested in Task Force on Decarbonization
	multiple MPs, Ottawa Valley/Toronto/Hamilton	5/4/2021	2	2	1	yes	Virtual	included HRAI
	<b>Total Global Held:</b>	<b>28</b>		<b>138</b>	<b>55</b>		<b>26</b>	
<b>Scheduled</b>								
	<b>Total Global Scheduled:</b>	<b>0</b>		<b>0</b>	<b>0</b>		<b>0</b>	
							<b>1</b>	
<b>Planned</b>	Chief Minister( Head of State ), Govt. of Goa	November?	RAL	1	1		1	
	<b>Total Global Planned:</b>	<b>1</b>		<b>1</b>	<b>1</b>		<b>1</b>	

**Motion (Revisions to the GAC Resource Manual): That GAC approve updates to the Resource Manual, proposed by the Rules Subcommittee.**

**BACKGROUND:** The Rules Subcommittee, in a discussion in its meeting on May 19 and a subsequent discussion and vote during its meeting on June 9, considered multiple proposed updates to the GAC Resource Manual. These included adding items to the RVC and Chapter Chair calendars, removing obsolete references to sections of the Rules of the Board and other GAC and/or Society documents, adding a section regarding the new Dave Palty Award administered by GAC, and adding a section with information on financial assistance for international government outreach events. There were also multiple non-substantive grammatical and formatting changes throughout. The Subcommittee approved unanimously a motion to advance these proposed changes for approval by the GAC.

**FISCAL IMPACT:** NONE.



**GOVERNMENT AFFAIRS  
COMMITTEE (GAC)**

**RESOURCE MANUAL**

**Proposed Updates for Government Affairs Committee  
Approval: 06-16-2021**

**Approved by Government Affairs Committee: 06-09-2020**

# GOVERNMENT AFFAIRS COMMITTEE RESOURCE MANUAL

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## **PURPOSE**

The Government Affairs Committee Resource Manual is a reference for guidelines, forms, procedures, sample documents and other tools that the Committee uses in its day-to-day operations. It ensures consistency in the operation of the Committee and serves as an educational tool for new members. The Government Affairs Committee Resource Manual is an internal document of the Committee and requires the approval of the Committee only.

## **A: COMMITTEE OBJECTIVES (MBOs)**

Prior to the Society annual meeting, the incoming committee chair will prepare objectives for the committee for the next year and present these objectives to the committee for review during the Society annual meeting. The objectives will be included in the committee's report to the council at the annual meeting as an information item, and a copy of the objectives will be sent to ASHRAE headquarters staff, Assistant to the BOD.

- A. If any committee does not submit its objectives to the council at the annual meeting, the assigned BOD Ex-Officio is responsible for contacting the incoming committee chair and working with him/her to complete these objectives.
- B. ASHRAE headquarters staff Assistant to the BOD will send copies of objectives to the BOD Ex-Officio, committee staff liaison and council staff liaison. Staff liaisons will send objectives to committee and council members.
- C. Each objective should be measurable and should include a projected completion date, fiscal impact (if any) and other information that would clarify the intent of the objective. If an objective is to be assigned to a specific member or subcommittee of the committee, this should also be included.
- D. A status report of the objectives will be included in the committee report submitted to the council at the Society winter meeting, and a copy of the objectives will be sent to ASHRAE headquarters staff, Assistant to the BOD
- E. A final report of the objectives will be included in the committee report submitted to the council at the Society annual meeting, and a copy of the objectives will be sent to ASHRAE headquarters staff, Assistant to the BOD. The objectives prepared by the incoming committee chair for the next year (or by the individual who will be the next year's chair) will also be included in this report. These two reports on objectives will show the council what the committee accomplished during the Society year that is ending and what is planned for the upcoming year.
- F. A suggested format for committee objectives (MBOs) is included as Appendix B of the GAC Resource Manual.
- G. The Executive Subcommittee shall assist the GAC Chair in preparing the Public Policy Priorities document for each Society Year.

**B: COMMITTEE OBJECTIVES – (MBOs) TABLE**

Committee Chairman:

Society Year:

Date:

<b>ASHRAE Strategic Plan Goal and MBO-Objective</b>	<b>Committee Objective</b>	<b>Metric Planned-Completion Date</b>	<b>Strategic Plan Initiative #-Fiscal-Impact</b>	<b>Strategic Plan Goal # Responsibility</b>	<b>Cost (if any) Budgeted</b>	<b>Status</b>

- List objectives, not action items or ongoing committee activities such as updating the committee’s MOP.
- State objectives in clear, concise, measurable language. If necessary, cite sub-tasks and interim steps as a means of measuring objective completion.
- Cite both the completion date for the overall objective as well as individual sub-tasks.
- State fiscal impact in dollars, ~~man-staff~~ hours, or ~~man-staff~~ trips, if necessary. State whether the program has been approved by the council and whether its cost has been included in the budget

- State the primary responsible individual, subcommittee, or body.
  - Report a brief but complete statement of status. Cite completion date if objective is fulfilled.
-

**C: CHAPTER GAC CHAIR MBO GUIDE (WITH EXAMPLES)**

**Management by Objectives**

Society Year:

Member 1:

Member 2:

Chair:

Member 3:

Member 4:

Priority	Objective	Task/Function	Responsibility	Due Date	Status as of
		Attract committee members			
		Attend CRC for training			
		Newsletter promotion of chapter government affairs			
		Reporting of Performance			
		Monthly program evaluation			
		Monthly speakers database			
		PAOE data entering in ASHRAE website			
		Awards and recognitions			
		Government Activities			
		Government Outreach <b>Events Days</b>			

## D: HELPFUL HINTS FOR GAC REGIONAL VICE CHAIR ANNUAL SCHEDULE

### JULY

1. Obtain a list of current year's Government Affairs (GA) Chairs ~~from Director and Regional Chairman~~ by running a Chapter CIQ report (see attachment A, CIQ Instructions). If any Chapters are without a GA Chair, follow up with the Chapter President. ~~Update mailing/contact information lists as necessary.~~
2. Send introductory letter to all GA Chairs.
3. Develop newsletter or article for chapter newsletter that summarizes events at past ASHRAE Annual Meeting.
4. Begin preparation for fall CRC workshop (if appropriate). Contact those who may be of assistance at regional or Society level.
5. Confirm PAOE year-to-date totals for GA with headquarters, with a copy to the Regional Chair, no later than 30th of the month.
6. Prepare Regional Government Affairs MBOs for use at the region's planning session and the Society GGA Committee (Please use ~~format in Section B, above see Template C.~~).
7. Begin planning and scheduling Government Outreach ~~Events Days.~~
8. ~~Coordinate meeting with GAC Mentor/Mentee as needed.~~
9. ~~Encourage Chapter GAC Chair to attend Chapter planning meeting.~~
10. ~~Look at "themes" on Chapter website and request a GAC theme for one of the upcoming Chapter meetings.~~
11. ~~Start a journal with monthly to do items.~~

### AUGUST

1. In preparation for fall CRC<sup>2</sup>s, make sure there are sufficient chapter chair certificates and other materials for distribution.
2. Prepare a regional "GA Annual Report" for presentation at the first business session at the fall CRC. See *Standardized RVC Reporting Format* in **Section E below** for sample report.
3. When arriving at the fall CRC, check the location of the room for the GA Workshop and notify the ~~CRC General Chair~~ ~~hotel~~ immediately, if not satisfactory.
4. Monitor GA Chair ~~men~~ PAOE points submitted in accordance with the current PAOE guidelines. Input any PAOE points required by the RVC.
5. ~~Encourage Chapter Chairs to work with CTTC Chairs to determine whether Distinguished Lecturers are available for government outreach. Select chapter(s) to host a Distinguished Lecturer, conferring with the regional chair. Communicate with selected chapter(s) so they may incorporate in their 12-month planning schedule.~~
6. ~~Follow up with assigned liaison organizations to receive minutes and other publications.~~
6. Conduct planning sessions with chapter GAC Chairs to identify issues chapter is targeting, set goals, and award PAOE points after meeting is conducted.
7. Coordinate meeting with GAC mentor/mentee as needed.

### SEPTEMBER

1. Send out letter reminding all GA Chairs of their responsibilities.
2. Ask GA Chairs for 12-month planning schedule.
3. Monitor GA Chair PAOE points submitted in accordance with the current PAOE guidelines. Input any PAOE points required by the RVC.
4. ~~Monitor Chapter Distinguished Lecturer utilization.~~
4. Submit GAC Awards to Society for judging.
5. ~~Conduct planning sessions with chapter GAC chairs to identify issues chapter is targeting, set goals, and award PAOE points after meeting is conducted.~~

6. Coordinate meeting with GAC mentor/mentee as needed.
7. For each RVC with chapters outside the U.S., if funding is made available to reimburse transportation expenses for Government Outreach Events, a plan for this funding must be submitted to that RVC's DRC no later than September 30 of each Society Year.

## **OCTOBER**

1. Approximately October 15, notify Chapter President and GGA Chairs of submission dates for PAOE points.
2. Monitor GA Chair PAOE points submitted in accordance with the current PAOE guidelines. Input any PAOE points required by the RVC for the Presidential guidelines.
3. Work on Subcommittee assignments as assigned and by due dates set by the GAC.
- ~~4. Monitor Chapter Distinguished Lecturer utilization. Notify GA Chairs regarding November 30 deadline for scheduling of visits allocated to region. Encourage GA Chairs to apply for unused visits available through Society after November 30.~~
4. Conduct planning sessions with chapter GAC chairs to identify issues chapter is targeting, set goals, and award PAOE points after meeting is conducted.
5. Coordinate meeting with GAC mentor/mentee as needed.

## **NOVEMBER**

1. Work on subcommittee assignments as assigned and by due dates set by GAC.
2. Monitor GA Chair PAOE points submitted in accordance with the current PAOE guidelines. Input any PAOE points required by the RVC for the Presidential guidelines.
- ~~3. Monitor Chapter Distinguished Lecturer utilization. Notify GA Chairs regarding November 30 deadline for scheduling of visits allocated to region. Encourage GA Chairs to apply for unused visits available through Society after November 30.~~
3. Coordinate meeting with GAC mentor/mentee as needed.



## **DECEMBER**

1. Prepare and distribute second or third regional letter.
2. Follow up with chapters on "Chapter Program Evaluation Summary" Forms for Best Chapter Program Competition, **as applicable. (~~July through December competition~~)**.
3. Continue efforts on subcommittee assignments as applicable.
4. Approximately December 15, remind Chapter Presidents and GA Chairs of due date for PAOE point submissions.
5. Monitor GA Chair PAOE points submitted in accordance with the current Presidential PAOE guidelines. Input any PAOE points required by the RVC for the Presidential guidelines.
6. Prepare Regional RVC report, liaison overview, and updated MBO for Society meeting. Submit documentation to GAC per the criteria established by the committee (due dates and paper/electronic format).
7. Attend GA Committee RVC Training at the Winter Conference.
8. **Coordinate meeting with GAC mentor/mentee as needed.**

## **JANUARY**

1. Interface with subcommittee members and GA Chairs as they prepare progress reports.
2. Attend subcommittee meetings prior to GA Committee meeting at ASHRAE Winter Conference.
3. Attend GA Committee, and assigned subcommittee meetings at ASHRAE Winter Conference.
4. Attend other required committee/council meetings at ASHRAE Winter Conference.
5. Monitor GA Chair PAOE points submitted in accordance with the current PAOE guidelines. Input any PAOE points required by the RVC.
6. **Coordinate meeting with GAC mentor/mentee at Winter meeting to review year to date progress.**

## **FEBRUARY**

1. Begin preparations for spring CRC Workshop (if appropriate). Contact those who may be of assistance at regional or Society level.
2. Begin preparation for third quarter regional letter preparation.
3. Approximately February 15, notify Chapter Presidents and GA Chairs of due date for PAOE point submission.
4. Monitor GA Chairmen PAOE points submitted in accordance with the current PAOE guidelines. Input any PAOE points required by the RVC.
5. Follow up with assigned liaison committees to receive minutes and other publications.
6. **Coordinate meeting with GAC mentor/mentee as needed.**
7. **Encourage GA Chairs to coordinate with local Student Activities chairs as well as CTT chairs to plan events in conjunction with E-Week.**

## **MARCH**

1. Continue work on subcommittee assignments as applicable.
2. Approximately March 15, notify Chapter Presidents and GGA Chairs of due date for PAOE point submission.
3. Monitor GA Chairmen PAOE points submitted in accordance with the current PAOE guidelines. Input any PAOE points required by the RVC.
4. **Coordinate meeting with GAC mentor/mentee as needed.**

## **APRIL**

1. Add any additional materials to enhance the GA Workshop for spring CRC.

2. Continue effort on subcommittee assignments as applicable.
3. Approximately April 15, notify Chapter Presidents and GA Chairs of due date for PAOE point submission. Closely monitor PAOE reporting and work with delinquent chapters.
4. Monitor GA Chairmen PAOE points submitted in accordance with the current PAOE guidelines. Input any PAOE points required by the RVC.
5. **Coordinate meeting with GAC mentor/mentee as needed.**

## MAY

1. In preparation for spring CRC, make sure there are sufficient chapter chair certificates and other materials for distribution.
2. Prepare a regional "GA Annual Report" for presentation at the first business session at the Spring CRC. See *Standardized RVC Reporting Format* in **Section E below GAC Resource Manual** for sample report.
3. When arriving at the CRC, check the location of the room for the GA Workshop and notify the CRC Chair, if not satisfactory. Conduct the CRC Workshop, with assistance from others, as needed. Submit Workshop Evaluation Summary Forms within 30 days following the CRC to Headquarters.
4. Indicate preferred subcommittee assignment to incoming Society GA Committee Chair.
5. Approximately May 15, notify Chapter Presidents and GA Committee Chairs of due date for PAOE point submission. Push for final phase of PAOE reporting.
6. Monitor GA Chairmen PAOE points submitted in accordance with the current PAOE guidelines. Input any PAOE points required by the RVC.
7. Determine due dates for GAC awards and notify GGA Chapter Chairs.
8. **Coordinate meeting with GAC mentor/mentee as needed.**

## JUNE

1. **+** Follow up with chapters on "Chapter Program Evaluation Summary" Forms for Best Chapter Program Competition, **as applicable. (~~January through June competition~~)**.
2. Prepare for ASHRAE Annual Conference, including a regional RVC progress report.
3. As necessary, assist Society-level subcommittees in preparation of progress reports for ASHRAE Annual Meeting.
4. Attend GA Committee and assigned subcommittee meetings at ASHRAE Annual Meeting.
5. Attend other required committee/council meetings at ASHRAE Annual Meeting.
6. Attend GA Committee Training at the ASHRAE Annual Meeting.
7. Approximately June 15, notify Chapter Presidents and GA Committee Chairs of due date for final year-end PAOE point submission.
8. Monitor **FINAL** GA Chair PAOE points submitted in accordance with the current PAOE guidelines. Input any PAOE points required by the RVC Address any apparent discrepancies in reporting observed.
9. Assemble judges, judge chapter entries, and notify chapter winners of regional technology awards winners. Help winners to refine entries in preparation for society submittal.
10. **Coordinate meeting with GAC mentor/mentee at Winter meeting to review year to date progress.**
11. **10. Take time, think back over the past year and learn from the past in order to be better prepared for the future.**

**E: STANDARDIZED RVC/ REPORTING FORMAT**

The following information is compiled into a summary spreadsheet showing activity for each region. The spreadsheet is reviewed by GAC at each Society meeting.

<b>ACTIVITY</b>
<b>CRC</b>
<b>Region #</b>
Total number of chapters in region
Number of chapters present
Number of GA chapter chairs present
Percentage of participation
Percentage of GA chapter chair participation
No. of planning sessions held
<b>PAOE</b>
No. of Chapters Reporting PAOE Points:
No. of Chapters Making Society Minimum:
No. of Chapters Making Society PAR:
Highest PAOE Points by a Chapter:
Percentage of chapters reporting
Percentage of chapters making Society Minimum
Percentage of chapters making Society PAR
<b>PAOE Trending by Chapter (up or down):</b>
<b>CHAPTER VISITS</b>
No. of visits made:
No. of visits scheduled:
Percentage of chapters visited:
<b>GAC AWARDS</b>
Government Affairs Award
<b>Government Outreach Days</b>
No. of Chapters Participating
No. of government officials visited
No. of ASHRAE members participating
No. of Chapters reporting
No. of days duration



## F: STANDARDIZED ExO/CONSULTANT REPORTING FORMAT

- **Issues and Updates (ExO Report): The Executive Officer gives a report to the GAC that is developed by the Board's Executive Committee.**
- ~~Other~~

## **G: GAC CHAPTER CHAIR CALENDAR**

### **MAY-JULY**

1. Recruit the GAC chair (if not filled yet) and additional GAC committee members as needed.
2. Set up a GAC committee meeting and assign members to manage each state and local jurisdiction within the Chapter's geographical boundaries.
3. Develop an article for chapter newsletter that highlights events and overall PAOE of last year's chapter meetings.
4. Contact your GAC Regional Vice Chair (RVC). Prepare and attend Fall CRC workshop (if appropriate).
5. Attend GAC Chapter Training Workshop at the Fall CRC (if appropriate).
6. Begin planning and scheduling Government Outreach **Events Days**.
7. **Attend Chapter planning meeting, if possible.**
8. **Look at "themes on Chapter website and request a GAC theme for one of the upcoming meetings.**
9. **Start a journal with monthly to do items.**

### **AUGUST**

1. Review the current year's society PAOE GAC sheets with committee and BOG members, develop tentative goals and deadlines. Encourage joint activities with local government organizations.
2. Deliver MBO to the chapter president.

### **SEPTEMBER**

1. Announce chapter-level Government Activities deadlines, requirements for competitions at chapter, regional and society levels and actively encourage and assist submissions.
2. Schedule a planning session with RVC which is due by October 30<sup>th</sup>.
3. Report on GAC activities that have occurred since the last meeting.

### **OCTOBER**

1. Report on GAC activities that have occurred since the last meeting.
2. Schedule a planning session, **if not already completed**, with RVC which is due by October 30<sup>th</sup>.

### **NOVEMBER**

1. Report on GAC activities that have occurred since the last meeting.
2. Provide or contribute a GAC article for the next issue of chapter newsletter.

### **DECEMBER**

1. Report on GAC activities that have occurred since the last meeting.
2. Provide or contribute an article and photos for the next issue of chapter newsletter.
3. Remind BOG members, committee chairs and membership to report qualified, GAC PAOE activities, and enter these PAOE points before the end of year.
4. GAC Chapter Chairs are encouraged to attend GAC training at Winter Meeting.

### **JANUARY**

1. Report on GAC activities that have occurred since the last meeting.
2. Provide or contribute an article and photos for the next issue of chapter newsletter.
3. **Coordinate with Student Activities Chair and CTT chair on upcoming E-Week events the chapter will be involved in.**

### **FEBRUARY**

1. Contact your GAC Regional Vice Chair (RVC). Prepare and attend Spring CRC workshop (if appropriate).
2. Attend GAC Chapter Training Workshop at the Spring CRC (if appropriate).
3. Report on GAC activities that have occurred since the last meeting.
4. Provide or contribute an article and photos for the next issue of chapter newsletter.

## **MARCH**

1. Contact your GAC Regional Vice Chair (RVC). Prepare and attend Spring CRC workshop (if appropriate).
2. Attend GAC Chapter Training Workshop at the Spring CRC (if appropriate).
3. Report on GAC activities that have occurred since the last meeting.
4. Provide or contribute an article and photos for the next issue of chapter newsletter.
5. Assemble judges, judge chapter's Government Activities Award entries, and notify chapter winners. Forward first-place winner/entry in each category to RVC for regional competition.
6. Announce the date/time and topic of society web seminar to membership.

## **APRIL**

1. Report on GAC activities that have occurred since the last meeting.
2. Provide or contribute an article and photos for the next issue of chapter newsletter.

## **MAY**

1. Report on GAC activities that have occurred since the last meeting.
2. Provide or contribute an article and photos for the next issue of chapter newsletter.
3. Help chapter's Government Award first-place winners to refine entries in preparation for Regional submittal.
4. Remind chapter members in newsletter for the upcoming society annual meeting.
5. GAC Chapter Chairs are encouraged to attend GAC training at Annual Meeting.

## **JUNE**

1. Report on GAC activities that have occurred since the last meeting.
2. Remind BOG members, committee chairs and membership to report qualified, GAC PAOE activities, and enter these PAOE points before July 15<sup>th</sup>.
3. Help chapter's regional Government Activities Award first-place winners to refine entries in preparation for society submittal, ensure the submissions will be received by society by September 30<sup>st</sup>.



## H: GAC STANDING RULES

The rules regarding ASHRAE Council and Committee meetings can be found in the Rules of the Board, Section 2.104.002. The current Rules of the Board can be found at this link: <https://www.ashrae.org/about/governance/rules-of-the-board>. (An ASHRAE member login will be needed to access the document.)

~~(A) All business meetings of the Society, Board of Directors, councils, Executive Committee and other committees shall be governed by the rules of procedures contained in the current edition of *Robert's Rules of Order Newly Revised* where the same are not inconsistent with the law or the provisions of the Certificate of Consolidation, the Bylaws, or special rules of the Board of Directors.~~

~~(B) Standing committees and special committees normally have their final meeting for the Society year at the annual meeting. Reports to councils and BOD resulting from such meetings shall be rendered by the outgoing committee chairman and the appropriate BOD ex-officio on the committee.~~

~~ROB 2.104.002.1 Unless otherwise stipulated, standing bodies are expected to meet at the Winter and Annual Meetings. Meetings beyond those authorized may be called by the chair with the approval of the Society President or Coordinating Officer. Standing committees and special committees normally have their final meeting for the administrative year at the Annual Meeting.~~

~~The new members of such committees who have been appointed for the succeeding year shall be invited to attend such committee meetings as guests and without vote, but the standard transportation reimbursement shall apply to them.~~

~~(C) The following categories of committee members do not vote and do not count for a quorum unless specifically indicated: BOD ex-officio members on Committees, Consultants, Advisors and Staffmembers.~~

New ROB for (C) above

### ~~2.104.005.1~~ ~~06-06-25-18~~

~~Standing bodies may contain non-voting members. These members have all the rights and privileges of voting members, but are not allowed to cast votes. Non-voting members may include ex-officio members, staff and consultants.~~

~~(D) Each committee's actions, proceedings, findings, conclusions, and reports shall be subject to the direction and review of the BOD and the council to which the committee reports. The BOD or the council may take such steps, or see that such steps are taken by the committee, as may be appropriate to comply with the Society's Charter and Bylaws, and to make effective any resolution adopted by the Society, or any resolution, rule, or direction of the BOD or the council to which the committee reports.~~

~~(E) If any doubt or controversy should arise as to whether a particular subject or matter is within the jurisdiction of a committee, or whether any action should be taken by a committee, or in the case of a committee tie vote, the same shall be settled and determined by the BOD or by the council to which the committee reports.~~

~~(F) When a recommendation is disapproved by a council, the committee shall be informed of the action, together with a brief statement on the comments leading to the disapproval. The committee can resubmit the recommendation with any statements it desires to make relating to the negative comments or to additional supporting information which it believes could change the council voting.~~

~~In the event the council disapproves a resubmittal of an action, the submitting committee may appeal directly to the BOD. An affirmative vote of two-thirds of the appropriate committee's voting members is required to approve submitting an appeal. On such an appeal, the council shall submit its reasons for disapproval for the consideration of the BOD.~~

~~(G) Committee Manuals of Procedures (MOPs), following approval by the committees, shall be submitted to their respective council for approval.~~

~~(H) Any committee, except those specifically authorized by the Rules of the Board, requesting authority to appoint a representative to coordinate its activities or meet with other organizations or groups having interests similar to those of the committee shall make a written request initially and annually thereafter to the chairman of its council. The request shall include the reasons for the coordination activities or meeting and estimated travel costs, if required, and indicate if the travel costs are budgeted. The council chairman shall take the action deemed appropriate and report action(s) to ExCom.~~

## **I: GOVERNMENT AFFAIRS AWARD**

The Government Affairs Award recognizes an ASHRAE member who demonstrates outstanding efforts in the national, state, provincial and/or local government on technical issues important to ASHRAE.

### **Purpose**

The purpose of the award is to stimulate effective participation by ASHRAE members in national, state, provincial, and/or local government activities in connection with technical issues related to the purpose of the Society.

### *Guidelines for the Government Affairs Award Presentation*

Each year the Society recognizes exceptional performance by a member in the area of government activities. During the Society fiscal year, Chapters assemble support materials describing the member's activities in interacting with national, state, provincial and/or local governments.

A typical award application includes a standard cover page (see below), a narrative section, the Chapter's government advocacy plan, the member's government advocacy with relevant documentation, publicity, etc.

### *Eligibility Requirements*

An ASHRAE member interacting with national, state, provincial and/or local governments is eligible for nomination for this award. Applications may be submitted by a Chapter or by any ASHRAE member in good standing. The winner is selected from these entries. The Chair of the GAC Member Mobilization Subcommittee is responsible for organizing the Government Affairs Awards program, establishing submission deadlines and selecting the entry to Society programs.

Judging: A minimum of three judges will be selected by the GAC. At least one judge should have experience as a Chapter officer - preferably with involvement in a Chapter government activity. Judging guidelines for the Society award are provided in the GAC's MOP. The judging occurs in the fall immediately following the last Chapters Regional Conference.

### **Selection Schedule**

#### **1. Regional Vice Chair may select an entry for the CRC (optional):**

**Submittals due to RVC for Regional competition  
Judging completed for Regional Submittals  
Notification to Regional Winner**

**Determined by RVC  
Determined by RVC  
At CRC**

#### **2. Nominations for this award are submitted to the Regional Vice Chair, who submits all entries for Society competition no later than September 15 30 and must include:**

**Standard Cover Page, Narrative Section, the Chapter's or Chapters' Government Affairs Plan, Relevant Documentation, Publicity, etc.**

**Submit one copy electronically in pdf format to [GovAffairs@ashrae.org](mailto:GovAffairs@ashrae.org) [jscarborough@ashrae.org](mailto:jscarborough@ashrae.org)**

- 3. Staff sends regional submittals to GAC Judging Panel by October 1**
- 4. Judges deliberate and make decision by the Winter Meeting**

- a. **GAC recommends final candidate to Honors and Awards Committee for approval by Members Council at Winter Meeting**
- b. **Staff notifies first place winner**
- ~~c. **Judging Panel notifies second and third place winners and non-winners**~~
- c. **Judging Panel submits article on winner to be published in the Government Affairs Update (GAU) to editor of ASHRAE Insights**
- d. **RVC notifies individuals who were not selected and lets them know that they will receive a highlight in an upcoming GAU**

*Presentation*

The Government Affairs Award is presented at the Society's Annual Meeting. The first place winner is recognized during the Honors and Awards portion of the Plenary Session.



**GAC SUBMITTAL FORMAT FOR GOVERNMENT AFFAIRS REPORT**

**1. Cover Page**

**GOVERNMENT AFFAIRS AWARD APPLICATION**

*Society Year 20\_\_ - 20\_\_*

**Contact information for Nominee**

<b>Name of Nominee</b>	<b>ASHRAE Region</b>	<b>Chapter</b>	<b>Positions in Chapter</b>	<b>Full Mailing Address</b>	<b>Email</b>	<b>Chapter President Name, Signature and Date</b>

**Contact information for Nominator(s)**

<b>Name(s) of persons making Nomination</b>	<b>ASHRAE Region</b>	<b>Chapter</b>	<b>Positions in Chapter</b>	<b>Full Mailing Address</b>	<b>Email</b>

**Signature and Date:**

**2. Government Affairs Plan**

- Presentations to Government Groups
- Methods to Encourage ASHRAE Chapter Member Activity with Government Entities
- Non ASHRAE Member interactions with Government Entities
- Description of Activities
- Plan and Associated Accomplishments
- Formation and coordination of efforts with other Chapters (if applicable)

**3. Discussion of how Government Affairs efforts were implemented highlighting successes and failures by this nominee or team of nominees. If applicable, please note how multi-Chapter teams' activities enhanced the success of this effort.**

## **Discussion of Future Focus and Activities**

### **Appendices – Optional**

- Government Entity Identification Forms
- Liaison Interest Forms
- Chapter Involvement Survey Forms
- Correspondence
- Publicity

---

*Submit to Chair Government Activities Committee's Member Mobilization Subcommittee by sending to*  
**[GovAffairs@ashrae.org](mailto:GovAffairs@ashrae.org) ~~[jscarborough@ashrae.org](mailto:jscarborough@ashrae.org)~~**

## J. DAVE PALTY OUTSTANDING GAC SERVICE AWARD

### Dave Palty Outstanding GAC Service Award

The Dave Palty Outstanding GAC Service Award is an informal committee award that is given each year to recognize outstanding overall effort on the GAC committee. The subject award will be judged by a 3-person committee made up of the current year Chair, Vice-Chair, and GAC staff director. The individual will be recognized at the GAC committee meeting at the ASHRAE annual meeting and will receive a certificate recognizing their outstanding efforts over the course of the year to promote and advocate on behalf of ASHRAE.

## KJ: GUIDELINES FOR AWARDS

All requests or suggestions for new awards, revisions to current awards, or award deletions shall be forwarded to the Honors and Awards Committee for review and recommendation before being forwarded to Members council and the BOD for review and approval.

ASHRAE awards are grouped into the following categories, each of which has their defined forms of award:

- Personal Honors
- Personal Awards for General Society Activities
- Personal Awards for Specific Society Activities
- Paper Awards
- Society Awards to Groups or Chapters

Awards will normally carry the name of an ASHRAE activity (e.g., Distinguished Service Award, Fellow, Journal Paper Award, etc.) No business, product, or commercial name shall be used for an award. Only in very exceptional instances may consideration be given to naming an award for an individual member.

Each proposed award shall be submitted with a detailed description, including the name of the award, the suggested category for the award, the reason for establishing the award, and the proposed selection and awarding process to the Honors and Awards Committee.

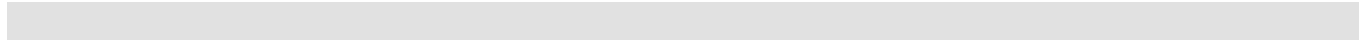
Proliferation of awards that will tend to detract from the worth of existing awards must be avoided. The award must first be considered as applying to an important field of ASHRAE related activity; the name of the award would then add prestige.

Awards may be proposed by any committee, chapter, or individual to the immediate authority but eventually must pass through the Honors and Award Committee for approval prior to submission to Members Council



and then to the Board of Directors. The Honors and Awards Committee will assist anyone wishing to submit a proposal for a new award. The proposal should be reviewed early in the process to allow determination for the appropriate nature of the anticipated award and meeting all necessary criteria for acceptance.

~~(Revision Approved by Members Council January 30, 2007 for addition to Volume 2, Standing Rules, General Rules, Board, Councils and Committees)~~



## **LK: CONTENT, FORMAT AND HANDLING OF MOTIONS**

### **INTRODUCTION**

A motion is an important tool for conducting business within the Society and for proposing action on an important issue. A motion should be written in succinct language. If a motion is expected to move through several levels of approval (for example from a subcommittee to a committee, then to a council and ultimately to the Board), state what is recommended but omit references as to which body must approve it. The committee can then pass the motion along to the council (and to the Board, if required) as it is written without having to rephrase it. If a rule or policy already exists, a motion to re-affirm the rule or policy is out of order.

### **CONTENT**

When a motion is made recommending that a higher body approve it, the following should be included: Motion (request action)  
Background (reason for action)  
Fiscal impact (estimated cost of action)

### **FORMAT**

The body of a motion should contain as completely as possible the following information:

1. State the action that is being recommended. For example, "I move that \$75,000 be allocated..."
2. Qualify elements of the motion so that they are not open for interpretation, debate or negotiation. For example, "I move that \$75,000 be allocated to develop a certification course on fan design..."
3. Include the time frame for completing the action if a time is desired. For example, "I move that \$75,000 be allocated to develop a certification course on fan design to be completed by June 2007."
4. If a motion is anticipated to become a Rule of the Board (ROB) it should be worded as a rule. A rule number should also be suggested. Existing related rules may be included in the background. If a motion is to amend an existing ROB, deletions should be shown as ~~striketroughs~~ and additions should be shown as double underlines. See examples below.

#### **New ROB:**

"I move that a new ROB be added to ROB Volume 2, 2.105.003, to read as follows:

*A reference manual should contain reference documents, white papers, guides etc. that the council or committee uses in conducting its work but that are not appropriately a part of the Rules of the Board or the council's or committee's Manual of Procedures.*

#### **Amendment to existing ROB:**

"I move that the proposed change to the Election and Appointment Procedures be approved as follows (strike ~~through~~ = deletion; double underline = addition):

Rev. 2006.09.17

1. Unless otherwise provided, the committee members and the respective chairs thereof shall be selected by the President-Elect in advance of the annual meeting and be confirmed by the President-Elect when he/she takes office as President, with the approval of the Board of Directors at the first meeting called after the report on the election. (SBL

7.2)

2. The selection procedure for each standing committee which is not directly elected by the Board of Directors is as follows: At least two months prior to the Annual Meeting, the President-Elect shall submit recommended appointments of standing committees and their respective chairmen and vice-chairmen to the Board of Directors. ~~With approval of the Board, these designated shall, at least 30 days prior to the annual meeting.~~ Appointees shall be invited to attend any meetings of their committees that may be called during the Annual Meeting. Committee appointments shall be approved by the Board of Directors as required by the Society Bylaws (65-07-04-23/95-01-29-05).

## **BACKGROUND**

Provide progression of events, the reason (what the action would accomplish) or other information that would help the approving body to debate and decide on the issue. The more thorough the background, the more convincing the arguments, the more complete the research, the more beneficial the request is to the betterment of the Society, the more likely the motion will be approved. Include the recommending body's vote count to assist the approving body in determining the level of support or controversy.

When a motion is made, it must be seconded unless it is from a committee or subcommittee. Once the motion is moved and seconded, the chair then states the motion unless it is presented in writing and all members have copies.

## **FISCAL IMPACT**

Include an estimate of the cost to take the action requested. State whether this amount has been included in the budget for the year in which the expense will be incurred. If the expense will be incurred in a future year, request that the amount be included in that year's budget. If there will be no fiscal impact, this should be stated.

\* \* \* \* \*

Motions will be formatted based on *Robert's Rules of Order, Newly Revised*. The Society Parliamentarian is responsible for determining the specific version for use. This requirement is included in the Rules of the Board, Section 2.101.002. A link to the Rules of the Board can be found here:

<https://www.ashrae.org/file%20library/about/governance/rules-of-the-board---volumes-1-4--july-2020-.pdf>

~~Attachment A – Summary of Motions based on *Robert's Rules of Order Newly Revised*~~

Attachment B – Example Motion (used for a motion made during a meeting)

**Attachment A**

**Summary of Motions  
Based on *Robert's Rules of Order Newly Revised***

This summary provides *At a Glance* information on handling motions that may arise during a meeting.

MOTION	PURPOSE	SECOND	DEBATABLE	AMENDABLE	MOTION	VOTE	DESCRIPTION
1. Main	Introduce business	Yes	Yes	Yes	All	Majority+	The lowest rank of motion. To Amend Rules a 2/3 vote and Previous Notice is required.
2. Postpone Indefinitely	Defer a matter or kill it	Yes	Yes (on the Main Motion as well as postpone)	No	All except 1	Majority	May be applied only to main motions including Questions of Privilege.
3. Amend*	To change or modify a pending motion	Yes	Yes (but confined to the amendment)	Yes	All except 1,2	Majority (The vote is on the amendment)	Amend by insert or add, strike out, strike out and insert, substitute (a whole paragraph or resolution).

4. Commit x	To place business in hands of a few (e.g. a committee )	Yes	Yes (as to propriety of committing only)	Yes	5,6,7,8,9	Majority	The motion- Commit adheres to the Main Motion and together they make one question.
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5. Postpone to set a time	To set a time when a matter must be considered	Yes	Yes (only as to the propriety of postponing)	As to time As to Special or General Order	6,7,8,9	Majority $\frac{2}{3}$ for Special Order	If passed the subject cannot be taken up before the set time except by a $\frac{2}{3}$ vote. General Order—a certain day. Special Order—a certain time.
6. Previous Question	To stop debate and order an immediate vote	Yes	No	No	7,8,9	$\frac{2}{3}$	To make this motion state: The Previous Question is moved on (State main motion or amendment on which vote is demanded.) Calling out question, question carries no requirement for action by the chairman.
7. Table Take from table	To lay aside a matter such that it may be considered later.	Yes	No	No	8,9	Majority	Table is not used to suppress the motion. Postpone Indefinitely should be used to suppress.

8. Orders of the Day	To force a meeting to return to the program, which is the Order of the Day	No	No	No	9	2/3	Must be called for at a time when Orders of the Day are being deviated from (Except Special Orders).
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9. Question of Privilege	To get the attention of the Chair at once	No	No	No	Adjourn	Majority	Use to Ask a Question to attend to some matter of business that cannot wait. Usually decided informally, without floor. Do not wait for recognition from the Chair.
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± A majority means more than half of those who voted for or against the motion. A  $\frac{2}{3}$  vote means  $\frac{2}{3}$  of those who voted for or against the motion.

\* There may be only one amendment to the *Main Motion* pending at one time. This 1st degree amendment may have only one amendment (2nd degree) pending at one time. As each is voted, other amendments may be offered in succession. *Previous Question* (stop debate and vote) may be applied to a motion or an amendment. A *Substitute Motion* is an *Amendment*. Amendments must be germane to the subject matter to be amended. After all amendments are voted, vote on what has become the *Main Motion as amended*.

x When a committee is to be appointed, nomination for the committee may be made from the floor. Chair puts vote; beginning with first named in succession. When the naming of the committee devolves upon the chairman, before the committee can act, the names must be announced to the assembly, unless permission is granted to the chairman to do otherwise. Whoever appoints the committee has power to appoint the chairman and fill vacancies. The committee reports to the assembly.



~~The Rules of the Board Section 2.105.002.4 describes the requirements for mentoring programs. A link to the Rules of the Board can be found here: <https://www.ashrae.org/file%20library/about/governance/rules-of-the-board-volumes-1-4-july-2020.pdf>.~~

During the final meeting of the Fiscal Year, the Board of Directors/Board of Governors, Council or Committee Chair shall appoint an incumbent to be the mentor for an incoming member. A mentor should be appointed for each new member. The mentor will be responsible for the following tasks:

- Before the next meeting of the Board of Directors/Board of Governors, council or committee meeting, the mentor should contact the new member by telephone, letter, fax or email to introduce himself/herself and explain the new relationship and its purpose.
- The mentor should make every effort to update the new member on:
  1. Board of Directors/Board of Governors, council, committee or chapter functions, focus and objectives.
  2. Review the Rules of the Board (ROB) and Manual of Procedures (MOP) with the new member.
  3. Discuss the typical meeting format and member duties and responsibilities.

The mentor should plan to meet the new member before the respective meeting is scheduled to start and introduce him/her to the chair and early arriving members. The mentor should also introduce the new member with pertinent data such as:

1. Member's field of expertise and employer
2. Chapter and city of the new member
3. Former chapter, region and Society positions previously held by the new member

The new member will be sent a copy of the group Rules of the Board (ROB), Manual of Procedures (MOP) and a copy of the most recent meeting minutes to acquaint him/her with the function and focus of the group. The new member should be encouraged to develop a rapport with other members to effectively work with fellow members to maximize productivity.

The chair of the Board of Directors/Board of Governors, council, committee or chapter shall have the following responsibilities:

1. Assign a mentor to each incoming new member of the group prior to the first meeting.
2. Assure that the time allotted at the beginning of the first meeting is sufficient for proper introduction of the new member by the assigned mentor.
3. Assess at a later meeting the effectiveness of the mentor/new member relationship.
4. Provide any assistance to enhance the mentor/new member relationship.

Completion date: The relationship terminates at the end of the new member's first year in the group.

Process of Measurement at the  
Society and Regional Level:

~~See ROB for matrix~~

Process of Measurement at the Chapter Level:

~~Focus and measurement will be accomplished using the Presidential Award of Excellence (PAOE) program. Points will be awarded based on a chapter submitting an effective plan to accomplish mentoring of new members. Short term results will be measured by PAOE compliance. Long term measurement would be completed by retention % reduction for new members who have belonged to the Society for less than two years.~~

Process of Measurement at the Society and Regional Level:

Measurement	Actual %	Tool	Responsible Party
1. Each Board of Directors/Board of Governors, council, committee will include the mentoring program in their Manual of Procedures (MOP).		MOP	Committees/Council
2. The committee Management by Objectives (MBO) should include an objective for mentoring which will be reported to the council at each meeting.		MBO	Committees/Council
3. The mentoring program will be monitored to determine its effectiveness through the MBO process.		MBO	Council
4. The councils at each Annual Meeting will include in their report to the Board of Directors the status of that Council's mentoring program.		BOD Report	Council

Process of Measurement at the Chapter Level:

Focus and measurement will be accomplished using the Presidential Award of Excellence (PAOE) program. Points will be awarded based on a chapter submitting an effective plan to accomplish mentoring of new members. Short term results will be measured by PAOE compliance. Long term measurement would be completed by retention % reduction for new members who have belonged to the Society for less than two years.

Measurement	Actual	Tool	Responsible Party
1. Percent of chapters having a mentoring program in place as reported by PAOE		PAOE Report	Membership Promotion Committee
2. Retention decrease of new members		Membership Report	Membership Promotion Committee

## **NM: TIPS FOR GAC MEMBERS FOR MAKING A CHAPTER VISIT**

### **BEFORE YOU GO:**

- Notify the Chapter President and Government Affairs Committee Chair (if you're an RVC) that you are planning a trip to visit their Chapter.
- ~~Utilize the ASHRAE GAME criteria to fly, drive, take public transportation, ride a bike or walk to the Chapter meeting, if possible.~~
- If you're an RVC, make sure the Chapter Committee Chairs and their Committee members will be at the meeting.
- Arrange with the Chapter President and Committee Chair for time to speak during the Chapter meeting.
- Arrange to attend BOG meeting – find out date/time – ask them for a “special” meeting, if they don't typically meet the same day as the Chapter meeting.
- Ask to make other local visits – school, employer, etc. or offer to conduct a work-shop
- Confirm date, get there early, confirm hotel transportation, and provide them with a summary of what you want to see/do and any audio-visual needs. Give them information on your presentation (if speaker). Send bio for their newsletter.
- Ask where they need help. –
- Prepare some information regarding ASHRAE Society news to share.
- Review their Newsletter/website, prior to your visit.

### **DURING YOUR VISIT:**

- Attend BOG meeting – actively participate, rather than observe. Some people even run the meeting or send them questions before their visit to reply to.
  - Remind them to update their ASHRAE bios.
  - Say something different from main meeting talk, but it's ok to reinforce some issues. Focus more on how to help them keep their Chapter viable.
- Meet with your Government Affairs Committee and its Chair, separately.
  - Catch up on training
  - Refresh
  - Help w/questions
  - Training their replacement – help ID or meet them
  - Review plan/MBO's
- Make local visits – school, employer, facilities, govt. office, media, church, etc.
- Check their ASHRAE literature stash and advise on sources for updating brochures.
- Speak for at least 10 minutes. You are giving up valuable personal time, ASHRAE paid for you to travel all that way, and the Chapter is paying for your hotel. Give them at least 10 good minutes of presentation with a high level of value. Prepare, practice, and deliver a high quality talk.
- Perform your “function” at their Chapter meeting (raise some \$ for RP if you're the RP RVC, sign up a member if you're MP RVC, etc.)
- Give training seminar or work-shop if you have a skill area to share.
- Invite guests to join ASHRAE.
- Invite people to make an ASHRAE Research donation.

- Meet lots of people. Model to the Chapter members how to work a room, introducing people to each other, making everyone feel welcome and engaged.
  - Read “How to work a room”.
- Invite people to attend the CRC (do this at the BOG and at the Main Meeting)
  - Ask who is going
  - Explain why you should go
  - Explain what it is, if needed.
- Try to help them understand what the Region is-how its glue between Society and Chapter.

**AFTER YOU GO:**

- Follow up on your promises to them/to do list within 2 weeks.
- Follow up report sent to DRC – within 2 weeks ~~to DRC~~, who will share with the rest of the regional executive group. Include the following in your report:
  - Any logistical warnings
  - Upcoming issues/events to be aware of
  - What you did/saw
  - Your perception of the condition of the Chapter
  - update of the Star search list
  - List who you were told is going to CRC
  - Any special successes/challenges.
- Send thank-you for hosting to Chapter President and Government Affairs Committee Chair.
  - Recognize any special assistance provided to you (airport pick-up, taken fishing, etc.)
  - Should be a US Postal note, not just an e-mail or phone call. Within 2 weeks.

**ON: PAOE INTERPRETATION GUIDLINES**

**PURPOSE:**

- To streamline PAOE interpretation throughout Chapters within all Regions and the Society. This will allow for better comparison between Chapters and between Regions.
- To avoid a too-liberal interpretation of some item(s) leading to an excessive number of points being entered.

□

**PAOE 20XX-20YY**

**PLANNING AND ADMINISTRATIVE ACTIVITIES**


**AWARDS AND SUBMISSION ACTIVITIES**


**MEETINGS, PRESENTATIONS OR EVENTS**



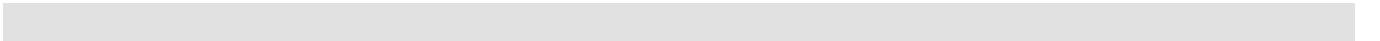


**AWARDS AND SUBMISSION ACTIVITIES**


**RVC ASSIGNS**


**ANNUAL REVIEW AND UPDATE REQUIRED:**

These Guidelines will be reviewed and updated annually before the Spring CRC season begins in order to comply with the PAOE for the incoming year.



## PO: CHANGES TO THE RULES OF THE BOARD OR MOP'S

Proposed changes to the Rules of the Board, or to any Society-wide policy or procedure, must follow the process outlined in the Rules of the Board Section 10.3.3. A link to the Rules of the Board can be found here: <https://www.ashrae.org/file%20library/about/governance/rules-of-the-board---volumes-1-4--july-2020-.pdf>.

Proposed changes including additions and deletions to MOPs should follow the same procedure as that for ROB's (see above), except that changes to a committee's MOP must be approved by the committee and by the body to which the committee reports (e.g., a council). No further approvals are required.

~~Here is proposed updated language for this section:~~

~~Changes to Rules of the Board—Proposed changes (additions and deletions) to Rules of the Board (ROBs) shall be submitted by committees, councils and Board members. Changes proposed by a committee shall be submitted through the body to which it reports; councils and Board members may submit proposed changes directly to the Board of Directors.~~

~~A.—To propose a change to an existing ROB, present the current ROB with changes marked by double underlining to designate words proposed to be added and strikethrough to designate words proposed to be deleted. A proposed change, as a minimum, shall include the complete ROB number (e.g., 2.106.001.2), the proposed change(s) marked as indicated above, and the reason(s) for the change(s).~~

~~B.—To propose a new ROB, present the wording for the new rule and include a statement indicating a recommended placement of the new rule within the ROB organization.  
Examples:~~

~~*It is recommended that this rule be placed in ROB Volume 1, Policies.*~~

~~*It is recommended that this rule be placed in ROB Volume 2, Publishing and Education Council.*~~

~~C.—To propose rescinding an existing ROB, include in the recommendation the ROB volume in which the rule is located, the rule number or other identification code, and the wording of the rule to be rescinded.~~

~~Changes to ROB's shall be issued as supplements to ROB's, BAR's and Manuals. The ROB's included in the supplements shall be incorporated in these documents as they are revised.~~

~~(90-02-14-13)~~


~~A.—Councils and committees shall annually review their Rules of the Board and recommend applicable revisions.~~

~~(90-02-14-13)~~

~~B.—Proposed changes including additions and deletions to Rules of the Board (ROBs) shall be submitted by committees, councils and Board members. Changes proposed by a committee shall be submitted through the body to which it reports; councils and Board members may submit~~

~~proposed changes directly to the Board of Directors.~~

- ~~C. To propose a change to an existing ROB, present a two-column comparison showing the current ROB number and wording and the proposed ROB wording. A proposed change, as a minimum shall include the ROB number, the proposed change, and the reasons for the change.~~
- ~~D. To propose a new ROB, present the wording for the new rule and include a statement indicating a recommended placement of the new rule within the ROB organization. Examples:
  - ~~a. It is recommended that this rule be placed in ROB Book II, Publishing Council~~
  - ~~b. It is recommended that this rule be placed in ROB Book I, Section 300, Meetings of Members.~~~~
- ~~E. To propose rescinding an existing ROB, include in the recommendation the ROB book in which the rule is located, the rule number or other identification code, and the wording of the rule.~~

- ~~F. Proposed changes to Society-wide policies and procedures (e.g., Travel Reimbursement Policy, etc.) shall follow the same procedure as for proposed changes to ROBs.~~
  - ~~G. Proposed changes including additions and deletions to ROBs and manuals (Book II documents) shall be submitted through the respective committees and councils to the Board of Directors.~~
  - ~~H. To propose a change to a ROB, present a two-column comparison showing the current ROB paragraph number and wording and the proposed ROB wording. A proposed change, as a minimum, shall include the ROB name, the ROB paragraph number, the proposed change, and the reason for the change.~~
  - ~~I. To propose an addition to a ROB, present the wording for the addition. Include a statement indicating the ROB paragraph in which the addition should be placed.~~
  - ~~J. To propose rescinding a sentence or paragraph of a ROB, include in the recommendation the ROB section or paragraph number, the wording and the reason for rescinding.~~
  - ~~K. Appendices to ROBs are considered part of the ROBs; therefore, revisions to appendices shall follow the same procedure as revisions to ROBs.~~
  - ~~L. Proposed changes including additions and deletions to MOPs should follow the same procedure as that for ROBs (see above), except that changes to a committee's MOP must be approved by the committee and by the body to which the committee reports (e.g., a council). No further approvals are required.~~
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## **QP: CHAPTERS REGIONAL CONFERENCE (CRC)**

The term "Chapters Regional Conference" (CRC) defines a meeting of all the chapters in the region. The Chapters Regional Conference Committee conducts the orientation session, caucus, executive session and business meetings. The conference also includes workshops, technical sessions, technical tours, and addresses by Society officers, regional award presentations and offers opportunities for regional fellowship. A Chapters Regional Conference (CRC) will extend for the amount of time, determined necessary by the Director and Regional Chair (DRC) to conduct the business of the region.

- A) Scope - To provide a forum for the dissemination of information pertaining to chapter and regional activities.
- B) Purpose - To provide a medium for:
  - (1) Chapters to report their activities for the previous year and establish goals for the coming year.
  - (2) Regional officers to report their activities and plans.
  - (3) Society officers to inform the region of Society plans, review chapter activities within the region and participate in workshops.
  - (4) Chapter delegates to submit motions for consideration by the region for proper review and action as it relates to Society activities.
  - (5) Chapter delegates to present nominees for Society and regional offices and candidates for honors and awards.
  - (6) Conducting chapter workshops that will educate and prepare officers and committee members to fulfill their responsibilities.
  - (7) Conducting technical sessions on subjects that will educate as well as increase attendance.
  - (8) Organizing social activities that will increase attendance and promote comradeship.
  - (9) Recognizing and presenting awards to chapter and regional members.

Attendance at meetings of the Chapters Regional Conference (CRC) is expected of all chapter delegates, alternates, regional vice chairs, regional historian and chapter committee chairs for Membership Promotion, Student Activities, Research Promotion, Government Affairs and Historical Committees and regional member and alternate to the Nominating Committee. In addition, any Society member residing in the region is encouraged to attend these meetings. The attendance of chapter officers and committee chairs, although not mandatory, is strongly encouraged.

## **RO: GAC/TECHNOLOGY COUNCIL REGULATORY REVIEW PROCESS**

The Government Affairs Committee (GAC) employs a streamlined process to review proposed legislation/regulations that concern ASHRAE standards, guidelines or other products, or key issues of interest to ASHRAE. This process:

- Reviews all actions that require a customized technical response (such as items 3 and 4 on the lists below);
- Determines if an official ASHRAE response is needed or desired;
- Identifies who should provide the necessary response information (e.g.; SPCC, TC, etc.); and
- Recommends to whom the action is sent.

There are at least three kinds of referencing of ASHRAE documents that should be distinguished from each other:

- When the legislation/regulation proposes to adopt a standard or guideline by reference
- When the legislation/regulation is referencing some other ASHRAE document as a resource
- When the legislation/regulation concerns something of interest to ASHRAE but doesn't necessarily reference an ASHRAE document

A flow chart has been created to help with the proper flow of information (See **Attached-Chart Below, page 55**). As part of that process, legislation/regulations are generally evaluated can using the following methods:

1. Does the legislation/regulation propose to adopt by reference the latest edition of an ASHRAE standard, guideline, handbook or other approved publication? If yes then there is no need to consult TC (tech council) other than report this information to Technology Department staff. A response from ASHRAE should be a letter of support based on their adoption of the subject document (**See Appendix 1: Template Letters**).
2. Does the legislation/regulation propose to adopt by reference OTHER THAN the latest edition? No need to consult TC. Response from ASHRAE should be letter of support in principle and request they adopt the latest edition of the document. Government Affairs staff should identify IF it is known if this is NOT an oversight but a deliberate 'backslide' to an earlier edition. If yes then the cognizant committee for the document could be contacted to get information to bolster the value of the later edition.
3. Does the legislation/regulation adopt by reference only A PORTION of the ASHRAE document and/or amend parts of the ASHRAE document? Government Affairs staff identifies the parts that are not adopted or are amended. Same as 2 above reinforcing the process we follow so it does not need to be amended and inviting participation in our process. Appropriate TC's or other committee should be consulted for additional input concerning why the amendments to and/or unadopted parts of the document are critical and how their legislation/regulation is deficient compared to the entire

document unamended. A template letter may not be possible for this dependent upon review of legislation/regulation.



4. Does the legislation/regulation adopt all or part of an ASHRAE document into a ‘home grown’ legislation/regulation vehicle and/or deal with a topic of interest to ASHRAE and on which we likely have a standard, guideline, handbook chapter, etc.? Same as 3.
5. Does the legislation/regulation provide for some action on a topic of interest to ASHRAE that is considered high priority and to which ASHRAE has critical expertise. Appropriate TCs or other committee(s) should be consulted for input and comments on the legislation.
6. Letters shall be signed by the President of the Society or the President’s Designee.

If the action references a standard or guideline, GAC should follow options 1-4 above, depending upon the answer to each question. Turnaround on these postings can be as little as 30 days, so the review and approval process for this work will need to be streamlined as compared to the work done by the Codes Interaction Subcommittee (CIS) under Standards Committee (which reviews code actions as they relate to ASHRAE standards).

However, if the reference is to an ASHRAE document or product (e.g.: ASHRAE Handbook, AEDGs, GreenGuide, Building EQ program) that is not a standard or guideline, these are not written in code-intended language. The legislation/regulation should be examined to determine if it is intended for some specific item such as a calculation, data, etc., and appropriate action taken.

When an official ASHRAE response is seen as necessary, staff will compile the response information (from GAC and/or other ASHRAE committees or individuals) into a unified response to be reviewed by the GAC Chair or designee. The entire process is set up to be completed in less than 30 days.

Even if an official ASHRAE response for any of these options is seen as not necessary, it may be appropriate for the action to be sent to appropriate committees or individuals within ASHRAE for their information and/or for an individual response on their own. Alternatively, it may not be possible to develop response in the available timeframe either with an existing template letter or with a custom response. In this case, ASHRAE may have to pass on the opportunity to respond.

The Administrative Assistant to the Director of Standards and Technology is the conduit used to send the information out to the identified ASHRAE committees or individuals. Specific language will be used in the emails to specify whether responses are being collected for an official ASHRAE response or if the information is being provided in case the ASHRAE members wished to make their own individual responses (**See Appendix 2: Email Format**). Appropriate Technology staff may be used to help in the process as needed – primarily with identifying whether ~~or not~~ a response was called for and which ASHRAE committees and/or members information should be sent to.

## APPENDIX 1: TEMPLATE LETTERS

~~Regardless of how an ASHRAE document is being referenced (for adoption or as a resource), a template letter can handle the first two options.~~ The GAC Advocacy Toolkit contains information, templates, and guidance for members participating in government outreach. The Advocacy Toolkit can be found at this link: <https://www.ashrae.org/about/government-affairs/member-resources-advocacy-toolkit>. (A member login will be needed to access.) Contact your RVC or ASHRAE staff to discuss further.

1. ASHRAE document referenced is the correct version – the template thanks them for referencing the ASHRAE document and voice support for that action. This is usually going to be a request for information (RFI) or notice of proposed rulemaking (NPR).
2. ASHRAE document referenced has been replaced by a later version –the template would thank them for referencing the ASHRAE document, point out that there is a more recent version of the document available and voice support for that action. This is usually going to be a request for information (RFI) or notice of proposed rulemaking (NPR).

Template letters can also serve as a starting point for options 3 and 4 above. These scenarios likely require more customization based on the specific action proposed. A TC may need to be contacted for guidance in customizing the response.

3. ASHRAE standard or guideline is referenced for adoption (this would not really apply to referral as a resource) in part only – template would likely require more customization by case but would thank them for referencing the ASHRAE standard or guideline and then argue that the entire standard or guideline should be adopted by reference rather than just a portion.
4. The action deals with a subject that is of interest to ASHRAE (and/or ASHRAE members) and for which ASHRAE members have expertise that could inform the action and for which ASHRAE may or may not have existing documents that can be referenced.

The drafts below are one page documents and are samples. There is often a word limit, so the template should be short enough to be useable in all instances. A paragraph can be developed and included where appropriate to incorporate information on who/what ASHRAE is, ASHRAE's role as a standards development organization and on the consensus process used. A possible starting point would be the final paragraph used in all ASHRAE press releases. (**See Additional ASHRAE Info below**)

**Letter Template #1: ASHRAE document referred to is the correct version**

Dear ~~Sir/Madame~~ Title and Name of Government Official;

Thank you for the opportunity to provide input on *(proposed action)*. ASHRAE supports the reference to *(ASHRAE document)* in the *(proposed action)*.

*(Insert additional ASHRAE information here as appropriate – see below)*

ASHRAE would be happy to provide a complimentary PDF copy of the *(ASHRAE document)* to you.

Please contact [GovAffairs@ashrae.org](mailto:GovAffairs@ashrae.org) to request the information above.

Thank you for your consideration of these modifications to the guidance document.

**Letter Template #2 (version 1): ASHRAE document referred to has been replaced by a later version – Option 1** (where only the document reference needs updated to a newer version)

Dear ~~Sir/Madame~~ Title and Name of Government Official;

Thank you for the opportunity to provide input on *(proposed action)*. ASHRAE is pleased that *(proposed action)* references *(ASHRAE document)*. However, the version of *(ASHRAE document)* being referenced is from *(year)* and this version has been superseded by an edition published in *(year)*. The latest version of *(ASHRAE document)* is from *(year)* and is titled: *(Full name of ASHRAE document)*.

The differences between the old and new versions of *(ASHRAE document)* are fairly significant. For example, *(note differences if applicable)*.

*(ASHRAE document)* is referenced in the following places in the document:

- Page *(XX)*, *(description)*
- Page *(XX)*, *(description)*

ASHRAE strongly suggests that these references be updated to refer specifically to *(Full name of ASHRAE document)*. ASHRAE would be happy to provide a complimentary PDF copy of the *(ASHRAE document)* to you. Please contact [GovAffairs@ashrae.org](mailto:GovAffairs@ashrae.org) to request that information.

Thank you for your consideration of these modifications to the *(proposed action)*.

**Letter Template #2 (version 2): ASHRAE document referred to has been replaced by a later version – Option 2**(where specific page numbers or table references need updated as well as the document reference)

Dear Sir/Madame;

Thank you for the opportunity to provide input on *(proposed action)*. ASHRAE is pleased that *(proposed action)* references *(ASHRAE document)*. However, the version of *(ASHRAE document)* being referenced is from *(year)* and this version has been superseded by an edition published in *(year)*. The latest version of *(ASHRAE document)* is from *(year)* and is titled: *(Full name of ASHRAE document)*.

In *(document citation, (ASHRAE document))* is referenced as follows.

*(Insert specific reference text here.)*

A newer version of *(ASHRAE document)* is now available. ASHRAE respectfully suggests updating the references as follows:

*(Insert specific reference text here.)*

There are also a number of “generic” references to the *(ASHRAE document)*. ASHRAE would suggest that all of these references also be updated to reference *(ASHRAE document)*. ASHRAE would be happy to provide a complimentary PDF copy of the *(ASHRAE document)* to you. Please contact [GovAffairs@ashrae.org](mailto:GovAffairs@ashrae.org) to request that information.

Thank you for your consideration of these modifications to the *(proposed action)*.

## APPENDIX 2: EMAIL FORMAT

The subject line of the email to follow this format: “**Type of action** by **Issuing Body** on **Subject**”

Terms: Where the type of action would be one of the following:

- **Final Rule**
- **RFI** (request for information)
- **NOPR** (notice of proposed rulemaking)
- **Intent for NOPR**
- **Support Request**(request for ASHRAE support on some action)
- **Notice** (catchall for anything that doesn't fit into the above)
- **Action** (catchall for anything that doesn't fit into the above)

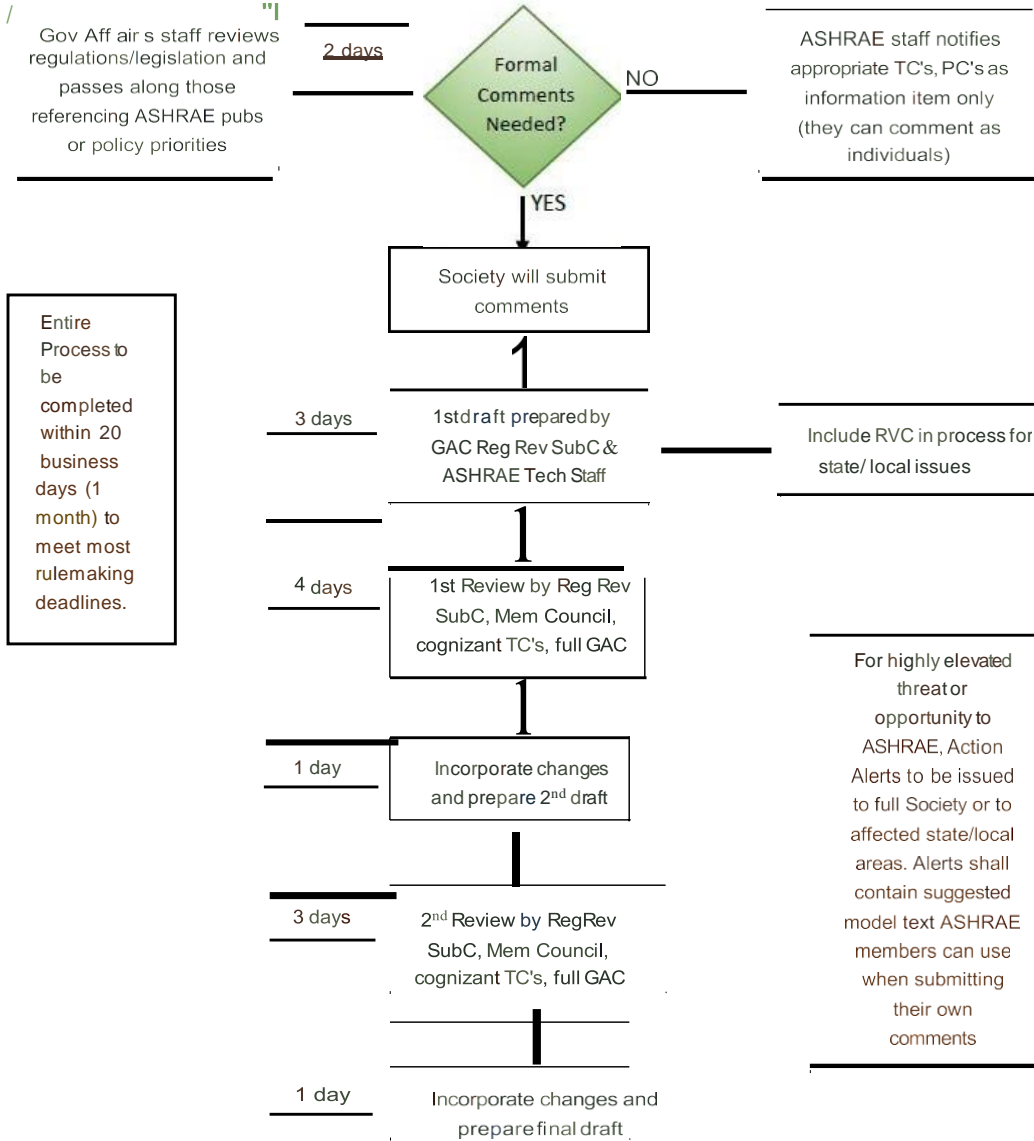
The name of the Issuing Body: DOE, EPA, NIST, GSA, etc.

The subject: “Test Procedures Air-cooled CUACs & CUHPs”

The body of the email to follow this format:

- **Type of Action:** Final Rule, RFI, NOPR, Intent for NOPR, Support Request, Notice, or Action
- **Issuing Body:** specific state or federal agency (DOE, EPA, NIST, GSA, etc.)
- **Subject:** The description of the item from the published action. It might be one or two sentences, or it might be a whole paragraph.
- **Impact on ASHRAE:** brief description of why this might be important to ASHRAE including what documents are mentioned.
- **Specific section to note:** How the ASHRAE document is mentioned (adoption by reference, resource reference, etc.) as well as the page numbers of those mentions for each document listed.
- **Link to Full Description:** this would provide the link to the full detailed information for the item.

**Government Affairs Committee (GAC) & Technology Council Regulatory Review Process**



## **SR: GOVERNMENT OUTREACH EVENT DAY REPORTING FORM**

A Government Outreach Reporting Form should be submitted for every event or meeting ASHRAE members hold with government officials. Contact your RVC or Government Affairs staff for questions or assistance with the form. The Reporting Form is in the Advocacy Toolkit on the ASHRAE website (a member login will be needed for access). A link to the Reporting Form can be found here: <https://www.ashrae.org/about/government-affairs/grassroots-advocacy/accomplishments#plan>. A document defining which events qualify as Government Outreach Events can also be found on this page.

~~GAC RVC(s)/Chair(s)/Coordinator(s):~~

~~Chapter(s) Participating:~~

~~Date of Event:~~

~~Number of ASHRAE Member Volunteers (optional: provide list of ASHRAE members participating on separate form):~~

~~Total Number of Elected/Appointed Officials~~

~~Contacted: Number of Informal/Drop-By Visits:~~

~~Number of Scheduled Meetings with Staff:~~

~~Number of Meetings with Elected/Appointed Officials:~~

~~Was the Government Outreach Day visit part of a special recognition (i.e.: Engineers Week, Building Safety Month)? If yes, then what was the special recognition?~~

~~Brief synopsis of event:~~

~~Lessons learned for next time?~~

~~What was most successful?~~

~~What was least successful?~~

~~Follow-up Actions Taken and Planned:~~

~~Other comments. Signature(s) of GAC RVC(s) and/or Chapter GAC Chair(s)~~

## T. FINANCIAL ASSISTANCE FOR INTERNATIONAL GOVERNMENT OUTREACH EVENTS

In past years, funding has been made available to each RVC with chapters outside the U.S. for reimbursing eligible transportation expenses for members of their region participating in Government Outreach Event activities. If ASHRAE Society includes this funding in the Society Budget, the following procedure should be used by RVCs in order to access these funds:

1. A budget shall be developed by the RVC detailing the use and purpose of expenditures (see Attachment C for an example budget).
2. Eligible expenditures shall only include transportation expenses.
3. The RVC's budget must be approved in writing by that RVC's Director and Regional Chair (DRC), and said written approval from the DRC shall be submitted to the Finance Committee through the GAC staff liaison.
4. The budget plan must be completed within the first quarter of the Society Year and submitted to that RVC's DRC no later than September 30 of the Society Year.



## U. ATTACHMENTS

### *Attachment A*

#### Instructions to Enter the Chapter Information Questionnaire (CIQ):

1. From the ASHRAE Homepage, login using your email address and password.
2. Click on the Communities blue tab
3. Click on the Chapters link on the drop-down menu
4. On the Chapters page, select Chapter Reports, PAOE and CIQ
5. In the left column, click on the Regional tab; the list of all Chapters in the Region will come up.
6. Click on the link of the chapter's name
7. The Members list will come up
8. There will be buttons above the Members list to:

RUN CHAPTER REPORTS

ADD CHAPTER OFFICERS

PAOE

9. To run the CIQ reports, click on the Chapter Reports icon at the top of the page
10. Click on the report you wish to run:
  - a. **Chapter Officer Roster:** this report lists the chapter positions for the current Society year
  - b. **Chapter Information Questionnaire:** when chapter positions are entered prior to the next society year, this report will list those positions for the future Society Year

*Attachment B*

**MOTION**  
**GOVERNMENT AFFAIRS**  
**COMMITTEE**

MOVED BY: \_\_\_\_\_

SECONDED BY: \_\_\_\_\_

MOTION: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

BACKGROUND: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

FISCAL IMPACT: \_\_\_\_\_

\_\_\_\_\_

Vote count: For  Against  Abstaining

Chairman voting? Yes  No

Motion passed   
Motion failed

Motion referred to:

**Attachment C**

**Example Form – Government Outreach Event Plan**

(Note this is an example only; the form and information and reimbursement plan may vary depending on Regional Needs, and Requirements of the DRC.)

Chapter Name	Type of Outreach Event	Lead Organizer (if known)	Expected Number of ASHRAE Participants	Expected Number of Meetings	Average Travel Distance (km. est.)	Expected Average Travel Cost Per Member (USD)	Total Costs (Estimate)	Costs to be Reimbursed
Chapter A	Federal Elected Official	Joe Cool	2	2	50	\$50.00	\$100.00	\$15.69
Chapter B	Multiple meetings – Government Legislative Body	Suzy Linn	15	9	1400	\$600.00	\$9,000.00	\$1,411.76
Chapter C	Federal Elected Official	Charlie Brown	3	1	350	\$400.00	\$1,200.00	\$188.24
Chapter D	Local Meeting	Lindsay Lou	5	1	22	\$50.00	\$250.00	\$39.22
Chapter E	Federal Elected Official	Jane Doe	4	3	590	\$300.00	\$1,200.00	\$188.24
Chapter F	Code Hearing	John Doe	5	1	370	\$200.00	\$1,000.00	\$156.86
<b>TOTAL REGIONAL COST:</b>							\$12,750.00	\$2,000.00*

\*Note that this amount MUST total \$2,000.00 USD

**Motion (Revisions to the GAC Manual of Procedures): That GAC recommends that Members Council approve attached updates to the GAC Manual of Procedures.**

**BACKGROUND:** The GAC Rules Subcommittee, in its meeting on June 9, 2021, discussed proposed revisions to the GAC Manual of Procedures that would make updates to the composition and membership of the Rules Subcommittee, as well as minor updates regarding membership of the Policy and Programs Subcommittee and the Member Mobilization Subcommittee, and a clarification regarding membership of the Global Affairs Subcommittee. These changes would allow for expanded membership in the Rules Subcommittee, as well as additional discretion on the part of the GAC Chair to determine whether additional members of the subcommittees referenced above may be needed in a certain Society Year. A motion to advance these proposed changes to the MOP was approved unanimously by the GAC Rules Subcommittee on June 9.

**FISCAL IMPACT:** NONE.



Shaping Tomorrow's  
Built Environment Today

Government Affairs Committee

Manual of Procedures

**Approved, as amended by Government Affairs Committee on January 27, 2021 and accepted by Members Council on February 2, 2021.**

**Approved by Government Affairs Committee on January 27, 2021**

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## **1. INTRODUCTION**

The Rules of the Board (ROB) for the Government Affairs Committee (GAC) define its scope and purpose, membership, and operation. This Manual of Procedures (MOP) details the operating procedures followed in carrying out the responsibilities of the Committee as prescribed in its ROB. This Committee is broadly responsible for organizing and conducting government activities at all levels and advising the BOD on such matters.

## **2. EXPECTATIONS OF COMMITTEE MEMBERS**

Committee members are expected to attend and actively participate in regular meetings, serve on assigned Subcommittees, quickly respond to requests from Government Affairs Office staff and Committee leadership, and engage in constructive dialogue.

## **3. DUTIES OF COMMITTEE MEMBERS**

### **a. Chair**

Duties of the Chair consist primarily of directing the operation of this Committee and reporting to the Members Council as required. Specific duties include:

1. Attend meetings of this Committee and assigned Subcommittee meetings.
2. Preside over all meetings of this Committee and its Executive Subcommittee.
3. Review and coordinate approval of the Committee minutes, as prepared by the staff liaisons, for all Committee meetings.
4. Prepare the agendas for this Committee's meetings with the assistance of the staff liaisons and Committee members.
5. Preparing written reports, including MBO status, at Society Annual and Winter Meetings, and at other times as required.
6. In consultation with the GAC Nominating Committee, shall annually appoint the Chairs of the standing Subcommittees.
7. Annually appoint each member of this Committee to one or more standing Subcommittees.
8. Periodically review the expenditures and budget allocations of the Committee and take any action deemed necessary, in cooperation with the Executive Vice President, to stay within the established budget.
9. Appoint Ad Hoc Subcommittees, or working groups from the membership of this Committee, as necessary.
10. Oversee all liaisons activities. Generate liaisons report(s) for distribution to appropriate Society, ASHRAE Regional, and Chapter groups.

### **b. Vice Chair**

Duties of the Vice Chair include the following:

1. In the absence of the Chair, the Vice Chair shall assume the Chair role at any scheduled or called meeting of this Committee.
2. In the event the Chair is unable to perform its duties, the Vice Chair shall assume all the duties of the Chair until a successor is selected.

3. Prepare recommended budgets for the operation of this Committee for the coming year, in consultation with this Committee's Executive Subcommittee, the staff liaisons, and the BOD ex-officio members, for consideration by this Committee.
4. Perform other duties which may be assigned by the Chair.
5. Serve as the Chair of the Rules Subcommittee.
6. Serve on this Committee's Executive Subcommittee.
7. Serve as GAC representative to the Members Council PAOE Subcommittee.
8. Coordinate all training activities, which include RVC training, at-large Member and Council Representative trainings held at Winter and Annual meetings, as well as throughout the year.

**c. Communications Coordinator**

Duties of the Communications Coordinator shall include working with members and staff to:

1. Work with staff to manage and update relevant ASHRAE webpages and social media outlets.
2. Produce newsletter and/or email updates on a quarterly basis, at a minimum.
3. Work with staff to manage distribution channels for government activity clearing house efforts to the membership.
4. Work with staff to solicit and publish *Journal* and *Insights* articles.
5. Serve on this Committee's Executive Subcommittee.

**d. Regional Vice Chairs**

Duties of the Regional Vice Chairs include:

1. Work closely with the Director and Regional Chair (DRC) to keep them informed regarding the Committee's activities and assist with public policy issues.
2. Attend and actively participate in full GAC committee meetings, serve on at least 1 subcommittee, prepare for and attend any special meetings, and perform other duties as directed by this Committee's Chair.
3. Attend the regular meetings of this Committee at the Winter and Annual Meetings of the Society. Additionally, attendance at Subcommittee meetings during the Winter and Annual Meetings is highly encouraged.
4. Assist Chapters in planning, coordinating and administering government activities and assist with training for such activities.
5. Monitor PAOE and enter RVC assigned points for Chapter governmental activities within the Region.
6. Prepare and conduct Governmental Activities Workshops at Chapters Regional Conference (CRC).
7. Prepare reports, as required by the Society and this Committee's Chair.
8. Coordinate communication on government activities at the Chapter and Regional levels.
9. Administer this Committee's Government Affairs Awards Program within the Region, solicit entries for each award from the Chapters, and forward qualified entries for Society consideration.
10. Transfer all relevant GAC materials, information, standards, and related information to the successor RVC.



11. Visit as many chapters as possible during the 3-year term in coordination with DRC's plans for chapter visits from region officers (though some consideration shall be given to the RVCs in Region XIII, XIV and RAL).
12. RVC responsibility to help organize Government Outreach Events.
13. Coordinate with DRC regarding President Elect Training and Regional Training.
14. Coordinate planning calls with Chapter GAC Chairs.

**e. Representative of Technology Council**

Duties of the Representative of Technology Council (TechC) include:

1. Serve as the liaison between GAC and TechC.
2. Ensure that ASHRAE's standards and other technical products are represented in public policy discussions and initiatives.
3. Serve on this Committee's Executive Subcommittee.
4. Keep GAC and subcommittees informed as to what standards, position documents, etc. are currently being discussed and/or edited to coordinate efforts with GAC Executive Subcommittee, Policy and Programs Subcommittee, or any other impacted Subcommittee.

**f. Representative of Members Council**

Duties of the Representative of Members Council include:

1. Serve as the liaison between GAC and Members Council.
2. Ensure that ASHRAE's grassroots interests are represented in public policy discussions and initiatives.
3. Serve on this Committee's Executive Subcommittee.

**g. Representative of Publishing and Education Council (PubEd)**

Duties of the Representative of PubEd Council include:

1. Serve as the liaisons between GAC and PubEd.
2. Ensure that ASHRAE's publications, training, certification, and related products are represented in public policy discussions and initiatives.
3. Serve on this Committee's Executive Subcommittee.

**h. At-Large Members**

Duties of the At-Large Members include:

1. Serve on the Committee's Subcommittees as assigned by the Chair
2. Provide support and advice as an advocate for assigned Committees in communication and interpretation of Committee's goals; guidance in fiscal planning, assistance in preparation and monitoring of annual objectives; assistance in developing and monitoring of action plans to achieve Strategic Plan Objectives; and assist in preparing recommendations to the Members Council.
3. Attend all meetings of the Committee.

4. Other duties from time to time as directed by the Committee Chair.

**i. Ex Officio Member**

Duties of the BOD *Ex-Officio* member include:

1. Serve this Committee in an advisory capacity and provide liaisons with the BOD, Councils, and other Committees.
2. Provide support to this Committee as follows:
  - (a) Guidance in fiscal planning.
  - (b) Assistance in preparation of annual objectives.
  - (c) Monitoring of progress toward completion of annual objectives.
  - (d) Assistance in developing action plans to achieve Strategic Plan Objectives.
  - (e) Monitoring of progress toward completion of Strategic Plan Objectives.
  - (f) Ongoing review of the Committee's ROB and MOP.
  - (g) Assess the Committee's scope and operation, and suggest changes as needed.
3. Attend all meetings of the Committee, except in cases of conflict with BOD meetings.
4. Serve on this Committee's Executive Subcommittee and Rules Subcommittee.

**j. Staff Liaisons**

The staff liaisons shall assist in carrying out Committee duties, including:

1. Generate, submit for approval to the Chair, and distribute meeting minutes within 10 business days after Committee meetings.
2. Distribute other supporting documents to Committee members in a timely manner.
3. Assist the Chair in preparation of timely, informative reports to the Members Council and the BOD.
4. Welcome new members appointed to this Committee and send them copies of the current Committee roster, MOP, minutes of the past Committee meetings, and other pertinent information, as applicable.
5. Assist the Vice Chair with generating the Committee's budget.
6. Maintain a copy of accounting records and financial statements for the Committee.
7. Process appropriate transportation reimbursement requests for Committee members.
8. Support the Committee in carrying out Strategic Plan Objectives (SPO's).
9. Update this Committee's MOP as directed by the Committee.
10. Update and process materials for this Committee's workshops at CRC's.
11. Assist in the preparation of materials for training incoming Committee members.
12. Assist the Vice Chair in conducting training of Committee members at the Annual Meeting and the Winter Conference, and in qualifying Committee members to provide training at CRC Workshops and Chapter events.
13. Respond to inquiries from Chapters regarding this Committee's activities.
14. Assist the Communications Coordinator, the Vice Chair, and ASHRAE IT staff with maintaining a website whereby the membership of ASHRAE can readily obtain information regarding government activities in any geographical location where ASHRAE has a presence.
15. Provide support for this Committee's Government Affairs Awards Program, coordinate notifications, transportation to the Society Meeting, and Society notification to award winners.

16. Provide information and appropriate contact with government agencies in support of Committee government activities.
17. Provide administrative support for this Committee's programs.
18. Coordinate update of website per this Committee's directives.
19. Offer public policy updates and guidance to the Committee on:
  - a. Summary of recent government activities (as informed by the Society's Public Policy Priorities).
  - b. Trends relative to such priorities at the grassroots government level.
  - c. Existing or potential collaboration with partnering policy organizations.
  - d. Summary of recent requests for input from ASHRAE's GA team, requests for ASHRAE GA action for specific issues being addressed at national, sub national, and local government levels, and the actions that were taken (or not taken) to respond to these requests.

#### 4. SUBCOMMITTEES

The Chair shall appoint Committee members to each Subcommittee annually. Subcommittee members may include voting members of this Committee and individuals with specific and relevant experience needed on each Subcommittee.

The Chair of this Committee shall form Subcommittees to conduct the business of the Committee in a practical and efficient manner. As conditions change, standing Subcommittees may be dissolved. The Chair may also form ad-hoc Subcommittees as needed.

Subcommittee Chairs must have served on the Subcommittee to which they are being appointed for at least 1 year, with the exception of the Nominating Subcommittee and the Rules Subcommittee.

Subcommittee members are appointed for a period of one year and may be reappointed by the incoming Chair.

Standing Subcommittee membership and responsibilities are assigned as follows:

##### a. Executive

The Executive Subcommittee (ES) consists of the Chair, Vice Chair, Subcommittee Chairs, Communications Coordinator, Representative of Tech Council, Representative of Members Council, Representative of PubEd Council, Consultants and the BOD ExOs.

Responsibilities of the Executive Subcommittee shall include:

1. Develop the proposed yearly Public Policy Priorities for the Society.
2. Develop and monitor the Committee's MBOs.
3. Develop budgets and monitors Committee expenses.
4. Review and approve requests for action alerts.
  - a. Action alerts are requests to the membership to support an active issue such as pending action on a bill affecting indoor environment.
  - b. Requests for action alerts may be initiated by individuals or groups within or outside GAC.
  - c. When a request for an action alert is received, ES shall make a preliminary judgment as to whether it is necessary and supported by an approved positions of the Society.

- d. If an action alert request is deemed necessary and supported by approved positions of ASHRAE, and if ES agrees that an alert should be issued, timely concurrence from Society Executive Committee will be sought by the Coordinating Officer.
  - e. If an action alert is found to lack support in approved ASHRAE positions and if ES believes an alert should be issued, the Coordinating Officer shall, in a timely manner, seek a supporting position from Society Executive Committee and report it to ES for further consideration.
5. Review and approve requests for input and/or support for specific issues being addressed at national, sub national, and local government levels.
- a. Requests for input and/or support for specific issues being addressed at national, sub national, and local government levels are initiated by those outside of the GAC. Requests for support often are asking ASHRAE to publicly express an opinion on issues that are considered to be related to ASHRAE's interests.
  - b. Requests for input and/or support may be proposed or initiated by individuals or groups within or outside GAC or ASHRAE.
  - c. When a request for input and/or support is received, if time allows, ES shall make a preliminary judgment as to whether it is supported by an approved position of the Society.
  - d. If an input and/or support request is deemed relevant and supported by approved positions of ASHRAE, and if ES agrees that the input and/or support should be provided, timely concurrence from Society Executive Committee will be sought by the Coordinating Officer.
  - e. If a request for input and/or support is found to lack support in approved ASHRAE positions and if ES believes the input and/or support should be provided, the Coordinating Officer shall, in a timely manner, seek a supporting position from Society Executive Committee and report it to ES for further consideration.
  - f. ASHRAE GA staff should inform the GAC chair when requests are received and advise the chair as to whether or not the request aligns well with existing ASHRAE priorities and documented positions. If time allows, the chair then determines whether to bring the issue to the ES for discussion or authorize staff to address the issue directly.
  - g. For requests received by staff that do not allow time to be considered by the GAC ES and/or GAC ES chair, staff may recommend action directly of the Society Executive Committee and/or Society President. Staff should inform the GAC chair of these time-sensitive requests and recommendations, along with the action taken.
6. Review, comment, and approve Public Policy Issue Briefs (PPIBs) developed by the Policy and Programs Subcommittee.
- a. Recommendations, if any, for new PPIBs shall be provided to the Policy and Programs Subcommittee.
  - b. Recommendations, if any, for the retirement of PPIBs shall be provided to the Policy and Programs Subcommittee.
  - c. PPIBs approved by the Executive Subcommittee shall be sent to the full Government Affairs Committee for approval.

**b. Policy and Programs**

The members of the Policy and Programs Subcommittee are appointed annually by the Chair of the GAC and consist of approximately half of the RVCs on the GAC, **and any additional members at the discretion of the Chair**. Members of the Executive Subcommittee may, at their discretion, serve as *Ex Officio* members of the Policy and Programs Subcommittee.

Responsibilities of the Policy and Programs Subcommittee shall include:

1. Develop and oversee implementation of public policy goals and initiatives, as drawn from the Society's Public Policy Priorities.
2. Provide regular reports to the GAC on the status of public policy initiatives and goals. These reports shall include recommendations for improving the effectiveness of the Society's public policy operations.
3. Seek opportunities in conjunction with Member Mobilization Subcommittee efforts for influencing public policy through active outreach with governmental and non-governmental organizations.
4. When deemed necessary, prepare and submit requests for action alerts to the Executive Subcommittee.
5. Review and recommend revisions to the PAOE criteria.
6. Review annually existing PPIBs and make recommendations to the Executive Subcommittee to retire or update the PPIBs. If an update is recommended, the Policy and Programs Subcommittee shall develop the PPIB and submit to the Executive Subcommittee for review and approval.
7. Recommend and develop any new PPIBs, as needed.

### **c. Member Mobilization**

The members of the Member Mobilization Subcommittee are appointed annually by the Chair of the GAC and consist of approximately half of the RVCs on the GAC, **and any additional members at the discretion of the Chair**. Members of the Executive Subcommittee may, at their discretion, serve as *Ex Officio* members of the Member Mobilization Subcommittee.

Responsibilities of the Member Mobilization Subcommittee shall include:

1. Monitor and respond to public policy-related requests from government officials and non-governmental organizations on public policy issues deemed important by the Society, including, but not limited to those issues identified in the Society's Public Policy Priorities. Monitor and respond to public policy-related requests from government officials and non-governmental organizations on public policy issues deemed important by the Society, including, but not limited to those issues identified in the Society's Public Policy Priorities. Refer to GAC MOP section 6.a.4 and 6.a.5.
2. When deemed necessary, prepare and submit requests for action alerts or for providing input and/or support for specific issues being addressed at national, sub national levels to the Executive Subcommittee.
3. Provide regular reports to the GAC on the status of ongoing public policy projects. These reports shall include recommendations for improving the effectiveness of the Society's public policy operations.

4. Provide recommendations to the GAC on emerging issues that are not the current primary focus of the Society, but have the potential to become of greater interest and thus may warrant greater future attention.
5. Manage Government Affairs Awards Program.
6. Review and update training materials for chapter chairs prior to Winter Meeting. The Subcommittee must provide feedback on training materials and work with staff to update and develop the training materials for Regional and chapter training events.

#### d. Global Affairs

The members of Global Affairs Subcommittee are appointed annually by the Chair of the GAC. Membership of the Subcommittee includes the RVC's from Regions 2, 8, 11, 12, 13, 14 and the RAL and in addition, up to 3 ~~At-Large additional non-RVC Members with international experience that serve on the GAC, at the discretion of the GAC Chair from the Regions-~~ ~~involved~~. The Chair of the Subcommittee needs to be an RVC with a minimum of 1 year GAC experience and be from the Regions involved.

Responsibilities of this Subcommittee shall include:

1. Developing strategies to promote and grow activities that reflect the global nature of the Society;
2. Identifying regional best practices for government outreach outside of the U.S. so that chapters can successfully promote the Public Policy Priorities internationally and build connections with government officials, institutions, non-governmental organizations, and private parties;
3. Monitor key public policy needs of government officials and policy makers internationally concerning the built environment, and make ASHRAE recommendations for responding to these issues;
4. Provide regular reports to the GAC on global outreach activities.

#### e. Rules

1. The Vice Chair of GAC will be the chair of this Subcommittee.
2. Membership of the Subcommittee will be the GAC Vice Chair, the Communication Coordinator, the Members Council Representative, ~~the Board Ex-Officio, and if needed up to one additional member from the Executive Subcommittee up to three additional members at the GAC Chair's discretion. Need for the additional subcommittee member shall be determined by the Chair of the Rules Subcommittee.~~ At least one of the subcommittee members shall have served on the subcommittee the previous year, and at least three of the subcommittee members shall have served on the GAC the previous year.
3. Responsibilities of this Subcommittee is to conduct an annual review of the MOP, ROB, the Resource Manual, and Section 2.5 of the Manual of Chapter Operations.

##### a. **Rules of the Board (ROB):**

The rules of the board for the GAC define its scope and purpose, membership and operation. Specifically, section 2.402.001 of Volume 2 covers the scope and purpose of the committee, section 2.402.002 Membership, and 2.402.003 Operation. Changes to this document must be preliminary reviewed by the Society Rules Committee, then passed as a motion to Members Council for approval, and lastly passed to the Board for Final approval. The content of these sections should be high level and identify the "who", "what" and "why". The "how" should be described in the Manual of Procedures.

**b. Manual of Procedures (MOP):**

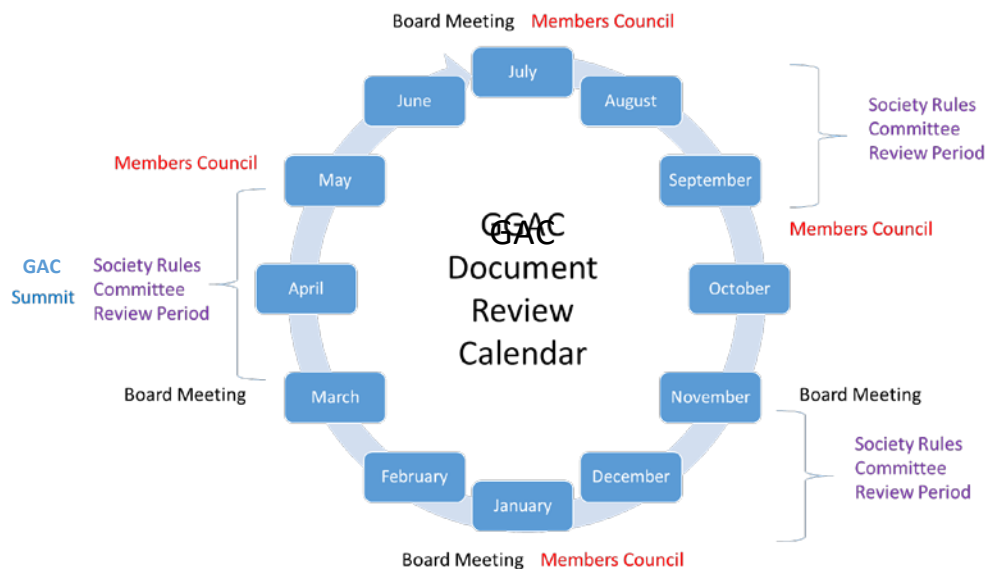
This manual details the operating procedures followed in carrying out the responsibilities of the committee as prescribed in its ROB. For example, this document contains the expectations of Committee members, their duties, a description and make-up of the GAC working subcommittees, the requirements for developing annual objectives, and the awards that the GAC committee is empowered to distribute. Changes to the MOP must be approved by Members Council, but do not require Board approval.

**c. GAC Resource Manual (RM):**

The Government Affairs Committee Resource Manual is a reference for guidelines, forms, procedures, sample documents and other tools that the Committee uses in its day-to-day operations. It ensures consistency in the operation of the Committee at the Society, Region, and Chapter level and serves as an educational tool for new members. The Government Affairs Committee Resource Manual is an internal document of the Committee and changes require the approval of the GAC Committee, only.

**d. Section 2.5 of the Manual of Chapter Operations (MCO):**

This section of the Manual of Chapter Operations describes the duties of the Chapter level GAC organizations and rules procedures for disseminating information from the Society GAC and when and how to engage local government officials. The MCO is owned and maintained by Members Council. Changes made to this document must be presented and approved by that entity. Members Council meets 4 times a year and proposed changes must have background information and justification for changes.



**f. Nominating**

1. Membership of this Subcommittee shall be the Chair, Vice Chair, a Presidential Member, the Communication Coordinator, the GAC ExO and up to one additional member, if needed. Need for an additional subcommittee member or members shall be determined by the GAC Chair.
2. The Subcommittee shall select a Vice Chair to serve in the absence of the Chair.
3. Responsibility of this Subcommittee is to make recommendations to the Society Appointments Roadmap Committee through the Board ExO for the next year's GAC Committee Chair and Vice Chair.
4. The Subcommittee shall seek input from Chairs of Subcommittees on their recommendations regarding nominations.
5. This Subcommittee shall also submit recommendations for the next year's Chairs of the various GAC Subcommittees to the newly appointed GAC Committee Chair and Vice Chair.
6. This Subcommittee shall meet at the Winter Meeting and at other times during the year as needed. Meetings shall be held in Executive Session and the staff liaison will be tasked with disposal of any worksheets at the end of each meeting.
7. All nominations should be submitted by the nominating subcommittee within a maximum of two weeks' time after the Winter Meeting.

**5. Committee Objectives (MBOs)**

Prior to the Society Annual Meeting, the incoming Committee Chair, in consultation with the Executive Subcommittee, will prepare objectives for the Committee for the next Society Year and present these objectives to the Committee for review during the Society's Annual Meeting. The objectives will be included in the Committee's report to the Members Council at the Annual Meeting as an information item, and a copy of the objectives will be sent to ASHRAE Headquarters staff, Assistant to the BOD.

1. If any Committee does not submit its objectives to the BOD at the Annual Meeting, an assigned BOD Ex-Officio is responsible for contacting the incoming Committee Chair and working with him/her to complete these objectives.
2. ASHRAE Headquarters staff Director of Member Services will send copies of objectives to the BOD Ex-Officio, Committee staff liaisons and council staff liaisons. Staff liaisons will send objectives to Committee members.
3. Each objective should be measurable and should include a projected completion date, fiscal impact (if any) and other information that would clarify the intent of the objective. If an objective is to be assigned to a specific member or Subcommittee of the Committee, this should also be included.
4. A status report of the objectives will be included in the Committee report submitted to the Members Council at the Society's Winter Meeting, and a copy of the objectives will be sent to ASHRAE Headquarters staff, Director of Member Services.



5. A final report of the objectives will be included in the Committee report submitted to the Members Council at the Society Annual Meeting, and a copy of the objectives will be sent to ASHRAE Headquarters staff, Director of Member Services. The objectives prepared by the incoming Committee Chair for the next Society Year (or by the individual who will be the next year's Chair) will also be included in this report. These two reports on objectives will show the Members Council what the Committee accomplished during the Society Year that is ending and what is planned for the upcoming year.

## **6. AWARDS PROGRAM**

### **a. Government Affairs Award**

The Government Affairs Award was established to recognize an individual for outstanding effort and achievement in national, sub-national, and local government activities in connection with technical issues related to the activities of the Society.

- Recognition is in the form of a plaque for first place winner.
- One awarded per year.
- The Government Affairs Committee makes recommendations for the award to the Honors and Awards Committee at the Winter Meeting.

**Motion (Revisions to the Rules of the Board): That GAC recommends to Members Council that Members Council recommends that the Board of Directors approve the attached changes to Section 2.402 of the ASHRAE Rules of the Board.**

**BACKGROUND:** The GAC Rules Subcommittee discussed proposed changes to the Rules of the Board regarding Section 2.402 Government Affairs Committee. This discussion took place at the Rules Subcommittee meeting on April 5, 2021. Changes regarding Section 2.402.002.2 Qualifications were proposed, as well as other minor grammatical changes throughout the section. These changes would allow greater flexibility in GAC membership regarding the required Presidential Member, Executive Committee, and member with professional background in government affairs or advocacy. These qualifications would no longer be required for a specific GAC member, such as the Chair or Vice Chair, but could be fulfilled by any of the 4 At-Large members, as well as the Chair or Vice Chair. On April 5, 2021, the Rules Subcommittee voted unanimously to approve the motion to advance the proposed changes for approval by the GAC.

**FISCAL IMPACT: NONE.**

## 2.402 GOVERNMENT AFFAIRS COMMITTEE

### 2.402.001 SCOPE AND PURPOSE

(18-01-24-03/17-09-06-01/15-01-28-18/05-02-06-15)

The Government Affairs Committee shall be responsible: 1) Organizing ASHRAE members at the grassroots level to influence and educate government bodies and officials from local to national level in areas of interest to ASHRAE members, to promote effective cooperation between ASHRAE members and government and 2) Developing the extent and the manner in which ASHRAE implements and pursues actions to influence government affairs and public policy. (See below)

The purpose of these activities is to benefit the public by providing responsible and balanced input and advice to policymakers in our area of expertise.

ASHRAE shall not operate a Political Action Committee (PAC) or make contributions to politicians, political candidates, or other government officials.

All efforts of the committee will be in accordance with applicable laws and the ASHRAE Rules of the Board, Certificate of Consolidation, and Bylaws.

The Government Affairs Committee shall report to the Members Council.

### 2.402.002 MEMBERSHIP

(18-01-24-03/17-09-06-01/15-01-28-18/1/-3-09-19)

#### 2.402.02.1 Composition

The members of this committee are as follows:

A. Voting members, including a Chair and one Vice chair, a Communications Coordinator, one representative from each Region who serves as Regional Vice Chair, one representative from each Council (Technology Council, Members Council, Publishing and Education Council) and four (4) at-large members.

B. Non-voting members including the Treasurer of the Society, who shall serve as Coordinating Officer, a Board Ex Officio member and the staff of the Government Affairs Office.

C. At least one of the Chair, Vice Chair, Sub Committee Chairs, or the Communications Coordinator should be from a non-U.S. governed state or territory.

#### 2.402.02.2 Qualifications

~~A. Among the Chair, Vice Chair, and 4 at-large members, at least 1 shall be a Presidential Member, at least 2 shall have ASHRAE Executive Committee experience, and at least 1 shall have a professional background in government affairs or advocacy.~~

~~A. Either the chair or the Vice Chair of the committee shall have ASHRAE Executive Committee experience.~~

~~B. One at-large member shall have professional background in government affairs or advocacy. At least one at-large members shall be a Presidential Member.~~

~~C. B. All members of the committee shall hold Member grade or higher in ASHRAE.~~

~~D. C. Committee members should have broad knowledge and experience with the organization, activities, and policies of both ASHRAE and government.~~

#### 2.402.002.3 Term of Service (17-01-29-1/15-01-28-18/70-07-01-02/76-02-04-16/78-02-01-27/88-05-21-49)

The term of service for The Chair and Vice Chairs shall be one year. The term of service for the other voting members shall be three years, subject to ROB 3.300 *Election and Appointment Procedures*.

### 2.402.003 OPERATION

(15-01-28-18)

2.402.03.1 This Committee shall support grassroots-level governmental activities by:

A. Working with the Chapters to promote ASHRAE standards, products, and services with local, provincial, state, and national governments.

- B. Seeking the appointment of Chapter members to local, provincial, state and national governmental bodies.

2.402.03.2 The Committee shall inform and motivate ASHRAE membership about grassroots activities and public policy issues by:

- A. Providing a conduit for grassroots members globally to keep their Chapters, Regions, and the Society Government Affairs staff informed on government affairs activities of interest to ASHRAE.
- B. Liaising Chapters with educational and programs-related groups within ASHRAE.
- C. Providing tools to train and enable Chapters and Chapter members to effect positive interactions with government **and other public entities**.
- D. Serving as a clearinghouse for government adoptions of ASHRAE standards, products and services.
- E. Tracking and reporting on legislation and regulations of interest to ASHRAE.
- F. Apprising government entities and representatives of the public policy priorities of ASHRAE for the purpose of providing technical assistance in drafting legislative and regulatory language. The Committee will reach out to ASHRAE members and others in the HVAC&R field to provide the requested assistance.

2.402.03.3 The Committee annually will seek input from members and the Executive Committee on issues to be addressed. The Committee annually will develop a list of proposed public policy priorities addressing significant current issues and will submit to ExCom and the Board of Directors for approval and as an information item to Members Council. (19-11-16-16)

2.402.03.4 The Committee shall review ASHRAE documents on relevant government affairs issues annually. Where new or additional ASHRAE Position Documents or Public Policy Issues Briefs may be helpful, the Committee will request they be considered using existing procedures (in Volume 1 of the Rules of the Board) and will review them prior to final approval.

On matters in which a clear ASHRAE position does not exist or for which a timely response is required, the Committee will seek a position from ExCom.

This Committee shall support the development of ~~CRC Grassroots~~ government affairs activities sessions at the CRCs by:

- A. Providing materials and qualified trainers for ~~CRC Grassroots Public Policy Government Affairs~~ Workshops.
- B. Reporting of PAOE.

# **GAC RVC REPORTS**

**For Annual Meeting (Virtual)**

**June 16, 2021**



# Region 1 RVC Report - Summer

Artorius M. Reyes

# Society Mission & Vision

## MISSION

- To serve humanity by advancing the arts and sciences of heating, ventilation, air conditioning, refrigeration and their allied fields.

## VISION

- A healthy and sustainable built environment for all.

## CORE VALUES





## Regional Goals – SY 2020-2021

### Primary Goals

- Understand climate goals & policies of all States within Region 1
- Identify City/State priorities and where ASHRAE can provide support.
- Establish City/State points of contact with GAC Chairs
- Support active ASHRAE initiatives wherever possible

### Member States of Region 1

New York

New Jersey

Connecticut

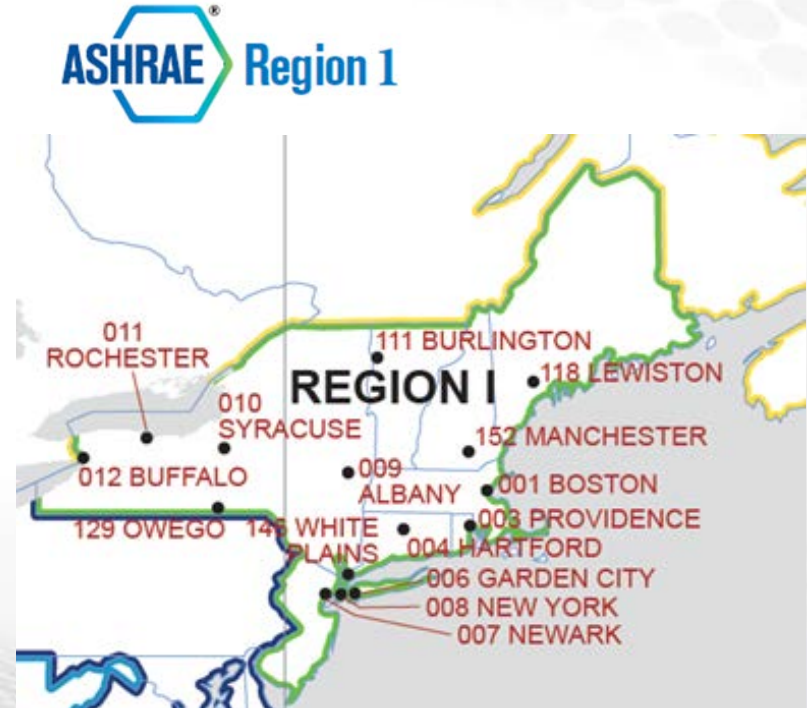
Massachusetts

New Hampshire

Rhode Island

Vermont

Maine



## RVC Goals – SY 2020-2021

### Primary Goals

- Get to know each GAC Chair and their Chapters
- Gauge guidance & support levels needed for each Chair
- Provide necessary support and guidance where needed leveraging broader GAC team and Staff
- Establish template for government

### Member States of Region 1

New York

New Jersey

Connecticut

Massachusetts

New Hampshire

Rhode Island

Vermont

Maine





# Regional Progress Highlights

## New York State

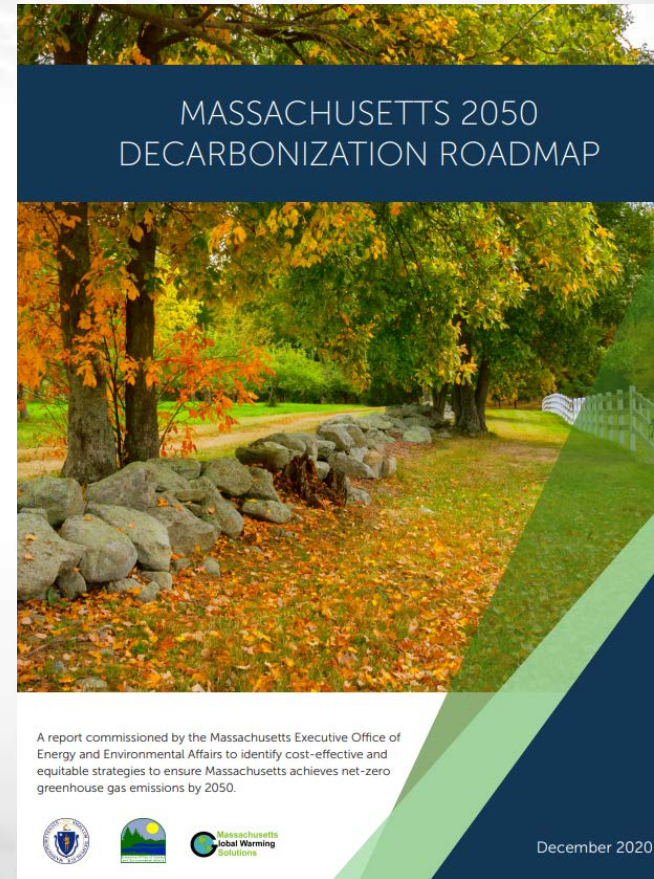
- NYSERDA & ASHRAE Chapter Engagement Plan Established
  - Forum for all (8) NY State Chapters to interface with Government
  - 1<sup>st</sup> Meeting held on Thursday 6/3
  - 7 of 8 chapters represented with full engagement.

## Connecticut

- CT GAC Chair Hank Cullinane – Nominated to Connecticut Codes & Standards Committee
  - Working closely with state code officials regularly.
  - Next step is to establish working platform for CT and focus on succession planning

## Massachusetts

- Worked with Boston GAC Chair and established key contact list of officials that are involved in climate policy at the State level and also in Boston.
- 2021-2022 Planning to build working partnerships with these contacts will begin over summer.
- Targeting 2050 Decarbonization Roadmap



## Regional Challenges

- COVID-19
- 100% Virtual Environment – No In-Person Meetings
- Fast Changing Political Landscape
  - Decarbonization
  - IAQ focus for schools
  - NYC Mayor & 68% of City Council in final terms
- Active But Disconnected Members
  - ❖ Members on City/State Advisory Boards
  - ❖ Chapters in NY moving at different paces
  - ❖ Varying government relationships across the region
- Definition of Government Outreach Changing
  - ❖ What do we do when relationships exist and work to be done?
  - ❖ How to stay aligned as to not duplicate efforts?







## Regional Accomplishments

- **Brendan Hall** – Received Society GAC Award  
GAC Chair – Central NY Chapter SY 2020-2021
- **Jin Jin Huang** – Nominated to NY State Climate Action Council Working Group – “Energy Efficiency & Housing”  
Past President, NY Chapter SY 2019-2020
- **Charlie Marino** – Nominated to LL-97 Advisory Board Working Group – “Commercial Buildings”  
Past President, NY Chapter SY 2014-2015
- **Benjamin Rodney** – Nominated to LL-97 Advisory Board Working Group – “Multi-Family”  
President Elect, NY Chapter SY 2020-2021
- **Ed Bricker** – Nominated to LL-97 Advisory Board Working Group – “Multi-Family”  
Sustainability Chair, NY Chapter SY 2020-2021
- **Hank Cullinane** – Nominated to Connecticut Codes & Standards Committee  
GAC Chair, Connecticut Chapter SY 2020-2021



State	Chapter Name	Active Chair	PAOE Points (to date)	Chapter Visits	CRC Attendance
New York	Bi-State	Yes	950	0	No
	Central New York	Yes	950	0	Yes
	Long Island	No	650	0	Yes
	New York	Yes	1050	N/A – Home Chapter	Yes
	Niagara Frontier	Yes	650	0	No
	Northeast	No	300	0	No
	Rochester	Yes	700	0	No
	Twin Tiers	Yes	1200	0	Yes
New Jersey	New Jersey	Yes	1400	0	No
Connecticut	Connecticut	Yes	1250	0	Yes
Massachusetts	Boston	Yes	850	0	Yes
New Hampshire	Granite State	Yes	500	0	Yes
Rhode Island	Rhode Island	No	0	0	No
Vermont	Champlain Valley	Yes	2150	0	Yes
Maine	Maine	Yes	0	0	No



# Key Events SY 2020-2021

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Massachusetts 2050 Decarbonization Roadmap  
Released (Dec – 2020)

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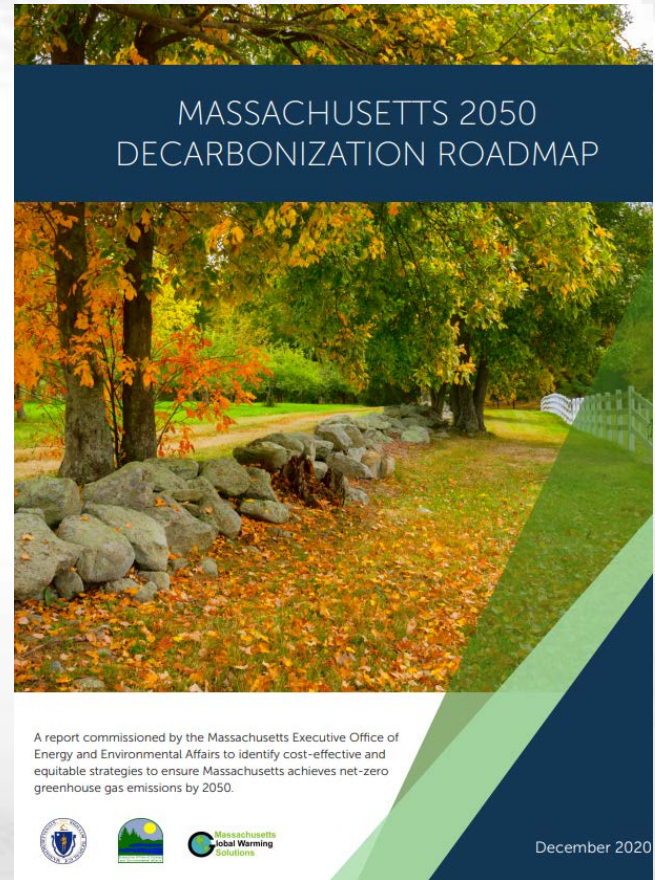
Vermont Global Warming Solutions Act of 2020  
Passes (Sept – 2020)


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ASHRAE/NYSERDA Memorandum of  
Understanding Signed (July – 2020)

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NY State Climate Action Council Formed  
(Aug – 2020)



A large black circle with a white double-line border, containing white text.

2021 -2022  
Outlook  
"Things In  
The Works"



Continued work on NY Advisory Panels (CLCPA & LL-97)



Continued Chapter Engagement w/NYSERDA



Continued work on Connecticut Code Council



Technical Support & Training for Vermont Global  
Warming Solutions Act & Massachusetts 2050  
Decarbonization Roadmap



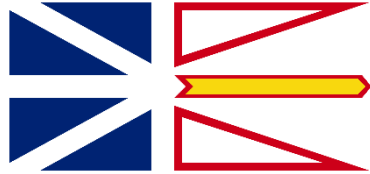


# GAC RVC Report Region II

ASHRAE 2021 Virtual Summer Conference  
Fredericton, New Brunswick, Canada

*Robert Hoadley, P. Eng., HFDP  
GAC RVC 2018-2021, Region II*

# Region II – Eastern Canada



Windsor (Ontario)  
London (Ontario)  
Hamilton (Ontario)  
Toronto (Ontario)  
Ottawa Valley (Ontario)  
Montréal (Québec)  
Ville de Québec (Québec)  
NB/PEI (New Brunswick and Prince Edward Island)  
Halifax (Nova Scotia and Newfoundland and Labrador)



# Chapter Engagement

5/9 at Par, 4/9 below Minimum

CHAPTER	GGAC CHAIR (PAOE to date)
Windsor	Paul Greff ☆ (1400)
London	Adrian Bruijns (350)
Hamilton	Mustafa Morsy (650)
Toronto	John Cusato ☆ (1450)
Ottawa Valley	Adrienne Mitani ☆ (1450)
Montréal	Jean-Sébastien Trudel (450)
Ville de Québec	Jean Bundock (700)
NB/PEI	(empty chair) (150)
Halifax	Tom Kendell (200)

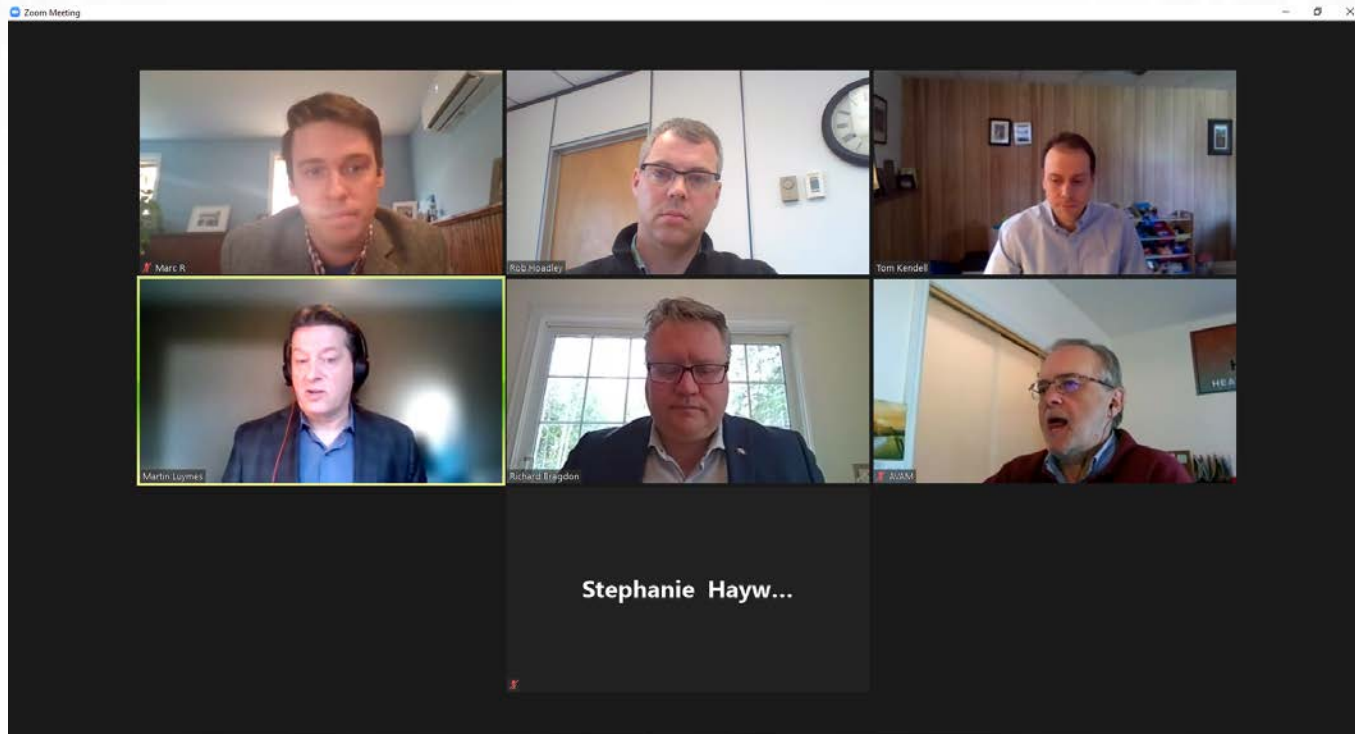
**Virtual 2021 Region II CRC to occur in August 2021**

# Region II Success Stories

Toronto Chapter helped organize joint Ontario provincial government outreach efforts with HRAI. Chapters across Ontario joined to virtually meet 11 Members of Provincial Parliament on February 2, 2021.

Relationship with HRAI allowed both parties to organize joint Federal Government Outreach on May 4, 2021. ASHRAE members from across Canada (Regions II and XI) met with 16 Members of Parliament as well as Parliamentary assistants and staff.

# Virtual Government Outreach



HRAI and ASHRAE members meeting with New Brunswick MP Richard Bragdon (Conservative MP for Tobique-Mactaquac)



# The Next Level of Outreach

***“We want to become the go-to resource for government officials...”***

Infrastructure Canada contacted ASHRAE for information on COVID-related ventilation improvements. Arranged Presidential Member Bill Bahnfleth and Rob Hoadley to meet with Ministry staff to discuss ability of ASHRAE to assist with resources

Environment and Climate Change Canada (ECCC) contacted ASHRAE for resources and suggested participant on refrigerant phase-out panel. Canadian ASHRAE group met to recommend contact, and Wayne Borrowman of Toronto will sit as Technical Expert on Canada Federal GHG Offset Protocol Development

Adrienne Mitani, GAC Chair for Ottawa Valley Chapter met with MP Bob Zimmer during our federal government outreach, who then asks for ASHRAE to bring Decarbonization information to the House of Commons Natural Resources Committee. Further action to come!

# GAC Lessons Learned

- Virtual meetings allow easy access to government officials in distant capitals, but in-person meetings allow greater ability to build relationships. We need to return to face-to-face meetings once we can.
- Some Chapter chairs are self-motivated, some need a push, some may never show up. The Meat Loaf Strategy where Two out of Three Ain't Bad applies.
- Government officials, especially facility manager level staff, are desperate for information and resources. We need to target them as well as Members of Parliament or Chiefs of Staff.





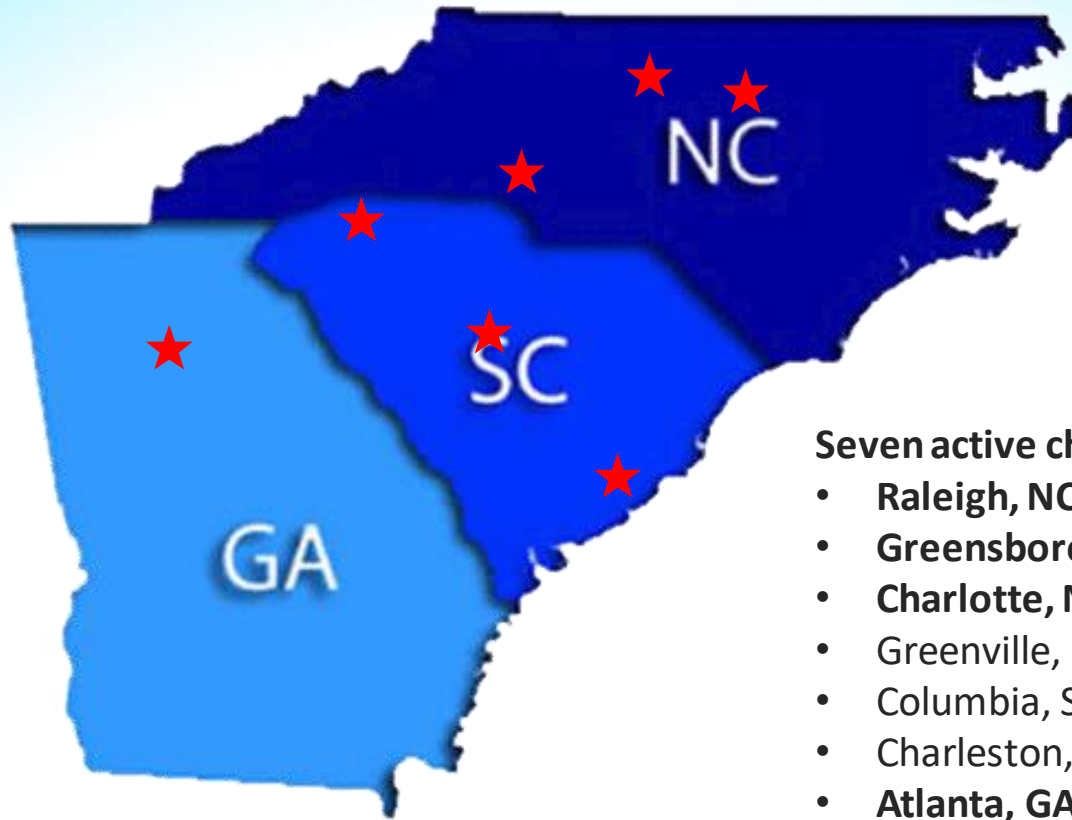


Government  
Affairs  
Committee:  
Region IV Report

**2021 Summer Conference:  
Tim Ashby, ASHRAE RVC-  
Region IV**



# Region IV Overview – Challenging



## Seven active chapters:

- Raleigh, NC (Triangle)
- Greensboro, NC (North Piedmont)
- Charlotte, NC (Southern Piedmont)
- Greenville, SC
- Columbia, SC
- Charleston, SC
- Atlanta, GA



# Special Mention Activities



- **Government Outreach Day: Georgia January Virtual Event.**
- Engineers Week Proclamations – Cary & Charlotte NC
- COVID 19 Reopening Schools Outreach – Atlanta, GA; Raleigh Durham, NC; Columbia SC.
- Engagement with Georgia Department of Health Task Force for Legionella.
- NC HB 909 – Legionnaires Disease Prevention Act Engagement by all NC State Chapters.



# Positive Activities



## Highlights

- All seven chapters reported POAE points.
- Three Chapters made POAE PAR (650): Highest 1730
- All of the Chapter Chairs are past presidents and/or past chairs.
- 86% Chapter attendance at CRC GAC Training.
- Numerous Elected Officials Engaged Virtually throughout Region.



# 2022 OUTLOOK



## Opportunities

- **Building back the GOD Outreach Events.**
- Continue to Develop Meaningful Local Level Contacts: State and Local.
- Encourage participation in State Boards and Commissions.
- Increase Chapter Level Engagement







# ASHRAE Region VI 2020-21 Year End Report

Matt Jesson, RVC



Region VI

# Chapter Chair Training



- Held on April 28<sup>th</sup>
- Joint session with Region XI
- 8 of 11 RVI Chapters attended
- Discussed:
  - Different ways to advocate
  - What counts as a Govt Outreach Event
  - Tips on how to conduct a meeting
  - Looking forward to 2021-22 (Beth)





# Numbers



- **14** Government Outreach Events Reported
  - **3** Chapters reporting, should have 2-3 more
- **4** Chapters in Wisconsin collaborating and coordinating activities
- **9** Chapters Region VI activities have been featured in the bi-weekly newsletter this year



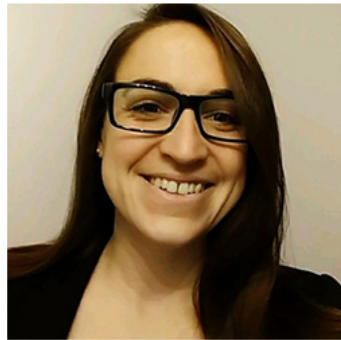
# Local Engagement



## ASHRAE Member to Participate in Milwaukee, Wisconsin Climate Task Force



Victor Nino, GAC Chair, Milwaukee Chapter



Kathleen Ellis, Vice President, Milwaukee Chapter

Kathleen Ellis, Vice President of the ASHRAE Milwaukee Chapter, and Victor Nino, Government Affairs Chair of the Milwaukee Chapter, met recently with officials from the Environmental Collaboration Office of the City of Milwaukee. The city's City-County Task Force on Climate and Economic Equity was created in 2019 to reduce greenhouse gas emissions by 45% by the year 2030 and achieve net zero greenhouse gas emissions by 2050. The Environmental Collaboration Office, which is leading the Climate and Equity Plan, asked Victor Nino to participate in ongoing meetings with the Task Force's Green Building Working Group. The city is interested in utilizing ASHRAE's technical support to help meet their goal to reduce building energy consumption. More on the Milwaukee Climate and Equity Plan can be [found here](#).

## ASHRAE Participating in La Crosse, Wisconsin Climate Action Committee



Susanna Hanson, ASHRAE La Crosse Chapter



Chris Hsieh, ASHRAE La Crosse Chapter

ASHRAE members in the La Crosse, Wisconsin Chapter, Susanna Hanson and Government Affairs Chair Chris Hsieh, recently participated in a stakeholder's kick-off meeting for La Crosse's new Climate Action Committee. The purpose of the Committee is to create a new 10-year strategic plan, taking over from the previous plan, which was aimed at sustainability. The new plan will focus on renewable energy and efficiency improvements and identify a roadmap to carbon neutrality by 2050. La Crosse is the 3<sup>rd</sup> city in Wisconsin participating in a complementary program by Xcel Energy. Participants in the introductory meeting learned about the current state of energy use and demographics, with breakout sessions related to residential, commercial and municipal brainstorming. The committee will hold additional stakeholder meetings in the future, in which ASHRAE members will also be participating.

# Looking Forward



- Incoming RVC Beth Tomlinson
- Most Chapter GAC Chairs are remaining
- More statewide collaboration
- More local engagement
- More outreach events!



Now I ride off into the sunset...





**Thank you!**



Region VI









**Government Affairs Report  
2021 Region IX  
Summer Meeting**

Andrea Phillips

# GAC RVC Report



- SY 2020 – 2021 Data (as of June, 2021)
  - 9 chapters reporting PAOE
    - 5 chapters achieving Society PAR
    - 5 Chapters above Society Min.
    - Highest point total is 3750 by Nebraska
    - Total due by end of June for End of Summer CRC
  - 10 of 13 chapters have a GAC Chair. Remaining chapters are hard pressed to fulfil BOG Positions
  - 9 Chapters present at CRC training
  - 9 chapter chairs sent written goals for the year
  - Four Virtual Chapter Visits this year and virtual attendance at other chapter's Monthly meetings and presentations

Chapter Number	Chapter Name	Members	GAC PAOE Points	PAR 650	MIN 500	GAC Chair
53	Kansas City	661	1700	X	X	Y
72	El Paso	49	0			N
73	Rocky Mountain	953	1800	X	X	Y
74	Utah	321	650	X	X	Y
75	Nebraska	375	3750	X	X	Y
76	Wichita	139	0			N
77	New Mexico	151	350			Y
93	South Dakota	125	350			Y
127	Black Hills	51	0			N
131	Big Sky	122	0			Y
135	Idaho	166	350			Y
148	Pikes Peak	127	700	X	X	Y
150	Ozarks	73	250			Y



# GAC RVC Report



- 2020-2021 Government Outreach Days
  - New Mexico Chapter virtual outreach roundtable regarding school reentry (08/2020)
  - Kansas City (JOCOBO) virtual attendance at monthly meetings regarding building code adoptions and ongoing discussions about code application. (10 total local outreach events 2020-2021)
  - Nebraska Chapter Outreach Event – 2 days of virtual meetings including DRC and RVC (02/2021)
  - RVC sent Letter sent to State Legislator in North Dakota regarding indoor tobacco smoke exposure and ASHRAE Position Document.
  - Big Sky Chapter GAC Chair sent letter to Montana Legislator regarding indoor tobacco smoke exposure and ASHRAE Position Document.

- Current Hot Topics:
  - School sanitation and student and faculty safety protocols post pandemic.
- Success Stories
  - Kansas City has maintained presence on JOCOBO during pandemic, participating in every virtual session they have met.
  - Defeat of two state bills regarding allowing cigar bars with indoor smoking in North Dakota and Montana.
  - Nebraska used the Fiscal Note Outputs for a highly successful outreach event.

- Lesson Learned:
  - COVID-19 changed our idea of outreach in unexpected ways. We are seeing opportunities for short virtual outreach days with specific lawmakers. We are also seeing virtual meeting fatigue.
  - Opportunities to use Fiscal Note to help schedule targeted virtual meetings.
  - GAC Office Hours are a success and offer a great cross-region training opportunity



# GAC RVC Report



- Society Year 2020-2021 RVC Goals:

- Visit one chapter in the region other than home chapter as RVC duty. (Complete)
- Maintain presence on KC chapter of GAC committee. (Complete)
- Attend 2-3 regional government outreach events personally with the participating chapters. Planned: KS, MO, NE – (Not Complete. KS and MO outreach days fell through.)
- Have DRC Tyler Glesne attend the Nebraska outreach day. (Complete)
- Attend one outreach day with Region VI. Planned: Iowa (Not Complete)
- Encourage every chapter:
  - To have a GAC chair or a past president completing GAC activities. (Not Complete, 3 chapters don't have GAC chairs).
  - To maintain PAR or better in PAOE. (Not Complete, although PAOE is not due for our region for a few more weeks, only 5 attained PAR)
  - To host a Government Outreach Day OR a virtual visit with at least one government official. (Not Complete, 3 chapters had outreach events)

# GAC RVC Report

- SY 2021-2022 goals:
  - Visit four chapters in the region other than home chapter as RVC duty.
  - Maintain presence on KC chapter of GAC committee.
  - Attend 2-3 regional government outreach events personally with the participating chapters, virtually or in person if possible.
  - Host a hybrid CRC training with both virtual and in person options
  - Moderate one GAC Office Hours Event
  - Encourage every chapter:
    - To have a GAC chair or a past president completing GAC activities.
    - To maintain PAR or better in PAOE.
    - To host a Government Outreach Day OR a virtual visit with at least one government official.



# GAC Report – Region X

ASHRAE Annual Conference  
Virtual (Online)  
June 16th, 2021

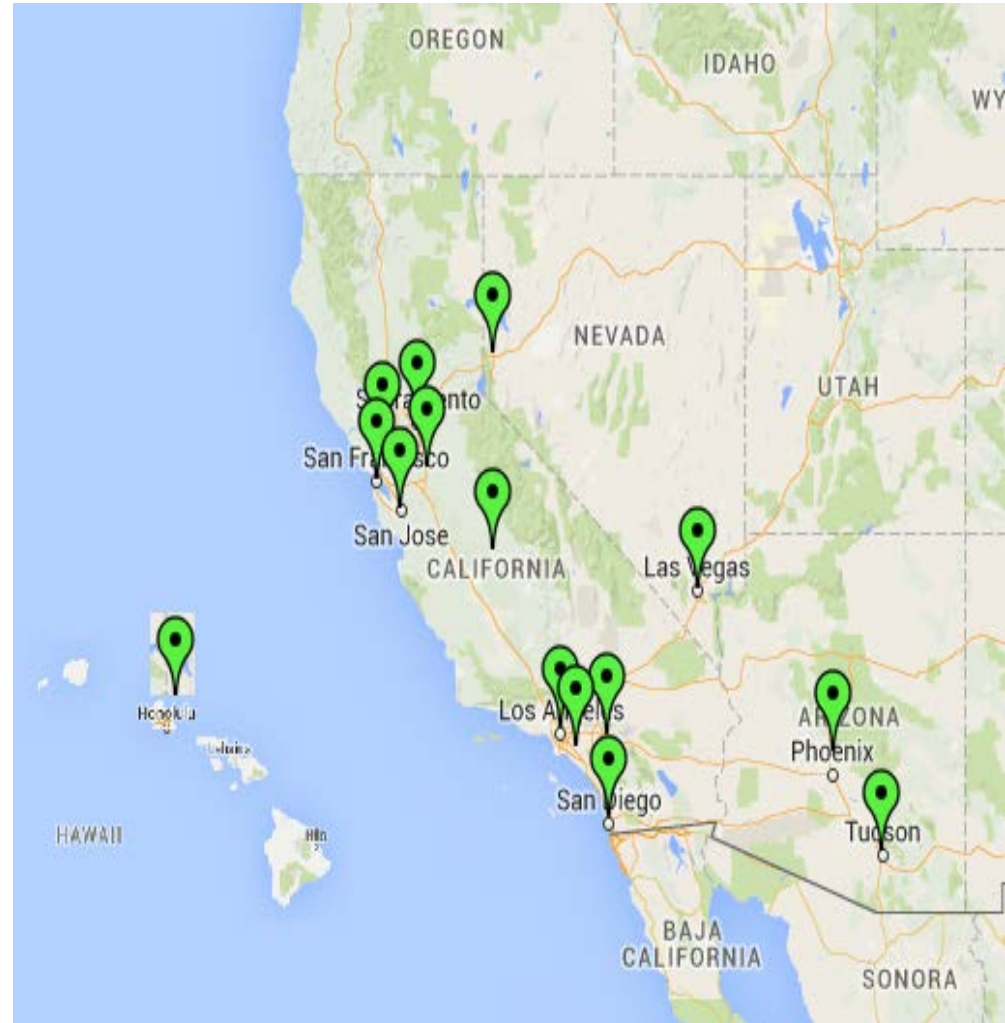
Colin E. Laisure-Pool, GAC RVC 2020-2022, Region X



# “Where the Desert Meets the Ocean”

## Region X Chapters

- 086 Central Arizona - Phoenix, AZ
- 082 Golden Gate - San Francisco, CA
- 082 Golden Gate - Napa, CA
  - Redwood Empire Section
- 108 Hawaii - Honolulu, HI
- 126 Northern Nevada - Reno, NV
- 105 Orange Empire - Anaheim, CA
- 081 Sacramento Valley - Sacramento, CA
- 085 San Diego - San Diego, CA
- 083 San Joaquin - Fresno, CA
- 101 San Jose - San Jose, CA
- 144 Sierra Delta - Stockton, CA
- 084 Southern California - Los Angeles, CA
- 084 Southern California - Santa Barbara, CA
  - Western Section
- 092 Southern Nevada - Las Vegas, NV
- 155 Tri-County - Redlands, CA
- 087 Tucson - Tucson, AZ



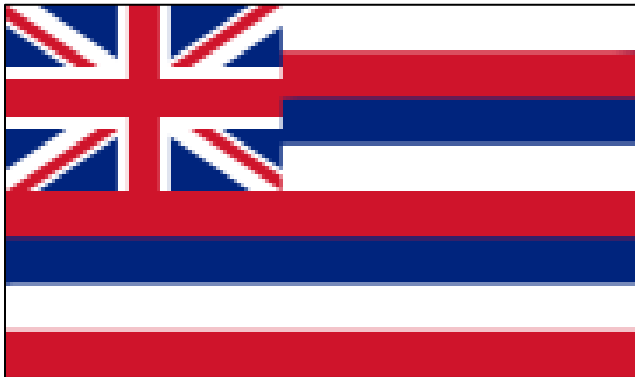
# “Where the Desert Meets the Ocean”



**Arizona**



**California**



**Hawaii**



**Nevada**

# Review (2020-2021)

## Highlights:

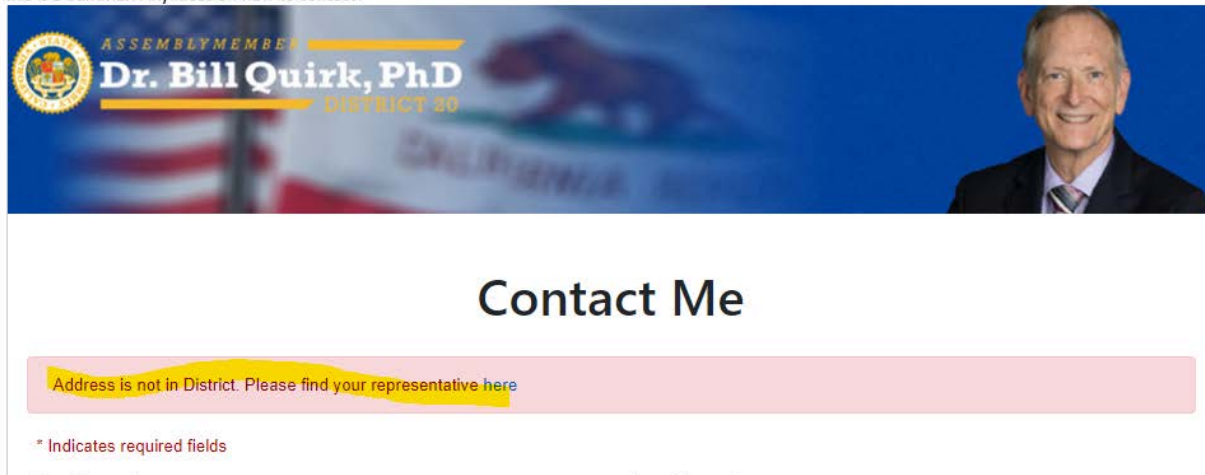
- Strong Participation at Joint Region IX/X CRC in Tucson (and Virtual)
- Planning Meetings with Key Chairs:
  - Rafi Karim and Andrew Clark (Southern California)
  - Bill Damon (Tucson)
- AB 841 (Phil Ting) – ASHRAE ETF Guidance for Re-Opening of Schools
- CARB and CA Fire Marshal – Refrigerant Safety Standards
- AZ School Board Meetings
- Robust Discussion on Decarbonization in California
- ‘GAC Office Hours’, led by Meghan McNulty- Big Success.

# Review (2020-2021)

## Challenges:

- Add'l Roadblocks Regarding Planning Spring Government Outreach Days:
  - AZ: No legislators/staff responses prior to January 11th.
  - CA: Assemblymembers no longer accepting emails; need to register on website (and have a constituent mailing address)

Well this is a bummer. Any ideas on how to contact?



ASSEMBLY MEMBER  
**Dr. Bill Quirk, PhD**  
DISTRICT 80

**Contact Me**

Address is not in District. Please find your representative [here](#)

\* Indicates required fields

- California Weather Data Updates (sponsored by SoCal Edison) delayed by CEC concentration on 2022 Reach Codes

# Chapter Engagement – CRC in San Diego

13 out of 14 Chapters Have Assigned GAC Chairs:

CHAPTER	GAC CHAIR	CRC (13/14)	Planning
CENTRAL ARIZONA	YES	CHAIR	NO
GOLDEN GATE	YES	CHAIR	YES
HAWAII	YES	CHAIR	YES
NORTHERN NEVADA	YES	CHAIR	NO
ORANGE EMPIRE	YES	CHAIR	YES
SACRAMENTO VALLEY	YES	CHAIR	YES
SAN DIEGO	YES	CHAIR	YES
SAN JOAQUIN	YES	CHAIR	YES
SAN JOSE	YES	CHAIR	YES
SIERRA DELTA	YES	CHAIR	YES
SOUTHERN CALIFORNIA	YES	CHAIR	YES
SOUTHERN NEVADA	YES	CHAIR	NO
TRI COUNTY	NO (Chapter President)	NONE	NO
TUCSON	YES	CHAIR	YES
Region X Participation	13/14	11/14	10/14

# Chapter Engagement 2020-2021

## 10 out of 14 Chapters Reporting PAOE Points Thus Far:

Chapter#	ChapterName	Chapter Members	GAC: Min 500; PAR 650	Chapter PAOE Totals	% of Total
81	SACRAMENTO VALLEY	282	0	2050	0%
82	GOLDEN GATE	866	600	3710	16%
83	SAN JOAQUIN	115	100	1095	9%
84	SOUTHERN CALIFORNIA	664	100	2800	4%
85	SAN DIEGO	356	200	3720	5%
86	CENTRAL ARIZONA	439	100	2935	3%
87	TUCSON	94	100	2025	5%
92	SOUTHERN NEVADA	144	300	3502	9%
101	SAN JOSE	322	100	4120	2%
105	ORANGE EMPIRE	392	0	2185	0%
108	HAWAII	251	100	4350	2%
126	NORTHERN NEVADA	101	0	1745	0%
144	SIERRA DELTA	46	150	1570	10%
155	TRI COUNTY	76	0	545	0%

# Chapter Visits (3 Year Term – 14 Chapters)



## 2019-2020

- **Central Arizona**
- **San Joaquin**
- **Golden Gate**
- **San Jose**
- **Sacramento**
- **Tucson**

## 2020-2021

- ~~Northern Nevada~~
- ~~Sierra Delta~~
- **Hawaii (?)**
- ~~Tri-County~~

## 2021-2022

- Southern Nevada
- Orange Empire
- San Diego
- Southern California





# ASHRAE Government Outreach Days

Arizona – ~~March 11th, April 15<sup>th</sup>~~, 2021 **CANCELLED**

~~Zehui Hong~~ – Central AZ Outreach Day Steering Committee Chair

California – ~~Dates TBD~~

**Cancelled**

Team NorCal:

Vanessa O'Connor (San Jose)

Mitch Pinsker (Golden Gate)

Ryan Porter (Sac Valley)

Team SoCal:

Arianna Nevins (San Diego)

Andrew Clark (SoCal)

Rafi Karim (SoCal)

Hawaii – Not Scheduled

Nevada – Not Scheduled





Thank you for your collaborative advocacy! GAC Rocks!







# ASHRAE Region XI

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GOVERNMENT AFFAIRS SUMMER REPORT  
2020/2021

# RVC Bio:

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**Daryl Collerman**

**Self-Employed Consulting Engineer and Commissioning Professional**

**Nanaimo, BC Canada**

**Chapter 145 Vancouver Island**

**GA Chapter Chair** *2016/2017, 2017/2018, 2018/2019*

**Chapter President** *2019/2020*

**Second Year of 3 Year GA RVC Term** *2019/2022*

# GA Chapter Synopsis 2020/2021:

11 Chapters	PAOE Points to date	Comments	Chapter Visit(s)
Vancouver Island	900	Incoming New Chair	No
British Columbia	<b>450</b>	Returning Chair (not active)	No
Southern Alberta	200	New GA Chair (not active)	No
Northern Alberta	650	Incoming New Chair	No
Regina	250	New GA Chair (not active)	No
Saskatoon	200	Returning Chair (not active)	No
Manitoba	200	Returning Chair (not active)	No
Oregon	<b>500</b>	New GA Chair	No
Puget Sound	650	New GA Chair &	No

# Regional Accomplishments:

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- ✓ Combined GA (virtual) Training workshop with Region VI, on April 28<sup>th</sup> 2021 with good attendance from both Regions.
- ✓ Secured a third GA Committee member for the 2021/2022 Puget Sound Chapter
- ✓ Recruited and secured GA Chair for 2021/2022 Vancouver Island Chapter.
- ✓ Combined Government Outreach “Day on the Hill Event” with Region II and HRAI Canada, on May 3<sup>rd</sup>
- ✓ Northern Alberta Chapter Delegate, Alternate, and former Delegate, conduct Government Outreach using ASHRAE’s Position Document on Indoor Tobacco Smoke, to help defeat an application to open a Hooka Lounges in Edmonton, Alberta

# In-the-works/On-the-go

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Ongoing efforts and strategies to encourage GA Chapter Chairs and Committee members to reach out to government officials.

Recruitment of GA Chapter Chairs and Committee members within Chapters that do not have adequate GAC representation.

Working with active GA Chapter Chairs and Committee members to establish planning sessions for the 2021/2022 season

# Lessons Learned & Outcomes of 2020/2021

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- ✓ Not having too many expectations of GA Chapter Chairs in their first year and the importance of encouraging them to take on the role for a second year and perhaps a third year. (each year they get a little better)
- ✓ The importance of fostering a relationship with each of the GA Chapter Chairs.
- ✓ The Pandemic has shown the usefulness and benefits of the electronic meeting platforms.
- ✓ Continue to encourage GA Chapter Chairs to Utilize virtual meeting platforms as a tool to engage Government Officials in Outreach sessions, when in-person meetings are not possible or logistically challenged.

# Goals and Objectives for 2021/2022

---

- ✓ Incorporate quarterly follow-up Training Workshops & Check-in's (via Go-To-Meeting) with GA Chapter Chairs
- ✓ Organize virtual Meetings with each of the GA Chapter Chairs on a monthly or bi-monthly basis
- ✓ Conduct in-person Chapter Visits (if possible)
- ✓ Foster as many Government Outreach Days as Possible at all levels of Government





# Government Affairs Annual Meeting 2021 report

## ASHRAE Region XII

Regional Vice Chair  
Eduardo Conghos  
Florida, Central America (except Mexico) and South America

Chapter / Capítulos  
034 - Jacksonville  
035 - Florida West Coast  
036 - Miami  
094 - Central Florida  
104 - Gold Coast  
109 - Space Coast  
110 - Puerto Rico  
139 - Southwest Florida  
172 - Brasil  
178 - Argentina  
190 - Colombia  
196 - Chile  
199 - Ecuador  
202 - Paraguay  
209 - ASHRAE Caricom  
213 - South Brazil

Sections / Secciones  
S1 - Tallahassee  
S2 - Sarasota  
S3 - Rep. Dominicana  
S4 - Costa Rica  
S5 - Panama  
S6 - Peru  
S7 - Bolivia



- ▶ ASHRAE Region XII
- ▶ 16 CHAPTERS
- ▶ 7 SECTIONS
- ▶ +3000 MEMBERS



No. of Chapters Reporting PAOE Points:  
 AM 2019 (11) - WM 2020 (9) - AM 2020 (13) – WM 2021 (9) – AM 2021 (14)

ChapterName	Government Affairs: Minimum 500; PAR 650	ChapterName	Government Affairs: 500; PAR 650	ChapterName	June 2020	Chapter Name	Government Affairs: 500; PAR 650	Chapter Name	Gov Aff
JACKSONVILLE	0	JACKSONVILLE	650	JACKSONVILLE	850	JACKSONVILLE	0	JACKSONVILLE	0
FLORIDA WEST COAST	3350	FLORIDA WEST COAST	1650	FLORIDA WEST COAST	1650	FLORIDA WEST COAST	100	FLORIDA WEST COAST	700
MIAMI	400	MIAMI	0	MIAMI	350	MIAMI	0	MIAMI	250
CENTRAL FLORIDA	2500	CENTRAL FLORIDA	0	CENTRAL FLORIDA	1100	CENTRAL FLORIDA	400	CENTRAL FLORIDA	900
GOLD COAST	0	GOLD COAST	150	GOLD COAST	150	GOLD COAST	0	GOLD COAST	650
SPACECOAST	1680	SPACECOAST	2100	SPACECOAST	3450	SPACECOAST	0	SPACECOAST	0
PUERTO RICO	0	PUERTO RICO	0	PUERTO RICO	0	PUERTO RICO	0	PUERTO RICO	0
SOUTHWEST FLORIDA	2250	SOUTHWEST FLORIDA	800	SOUTHWEST FLORIDA	800	SOUTHWEST FLORIDA	400	SOUTHWEST FLORIDA	800
BRASIL	1050	BRASIL	900	BRASIL	2700	BRASIL	650	BRASIL	1200
ARGENTINA	1100	ARGENTINA	1450	ARGENTINA	1850	ARGENTINA	850	ARGENTINA	1550
COLOMBIA	750	COLOMBIA	2050	COLOMBIA	2050	COLOMBIA	350	COLOMBIA	450
CHILE	50	CHILE	0	CHILE	0	CHILE	0	CHILE	200
ECUADOR	0	ECUADOR	0	ECUADOR	0	ECUADOR	0	ECUADOR	550
PARAGUAY	700	PARAGUAY	250	PARAGUAY	550	PARAGUAY	350	PARAGUAY	900
ASHRAE CARICOM	600	ASHRAE CARICOM	0	ASHRAE CARICOM	1850	ASHRAE CARICOM	300	ASHRAE CARICOM	1700
		SOUTH BRAZIL	0	SOUTH BRAZIL	1500	SOUTH BRAZIL	100	SOUTH BRAZIL	1250
						Peru	0	Peru	550



<b>ACTIVITY</b>
<b>CHAPTER VISITS</b> No. of visits made: 16 (virtual/phone)
<b>GOE</b> SY 2020-2021 (current): Region XII has had 5 events total. This includes 1 from Ecuador, 1 from Paraguay, and 3 from the Argentina Chapter. SY 2019-2020: Region XII had 6 events total, of which 4 were Space Coast Chapter, 1 Central Florida (Orlando) Chapter, 1 Sao Paulo Chapter.
<b>GAC AWARDS</b>
Government Affairs Award proposed 0

▶ ASHRAE Region XII



	Government Official(s)	Drop By or Official Meeting?	ASHRAE Volunteers Present	Issues or Bills Discussed	Notes
1	Fabricio Noriega Salazar Technical Official for Standardization 8.7 IBNORCA (Bolivian Institute for Standardization and Quality)	Official Meeting 19 Meetings	P.Eng. Joaquin Ledezma	Energy Efficiency - Air Conditioners - Specifications and labeling  - AHSRAE 169:2013 - ASHRAE 180-2008	Fabricio N. Salazar, as representative of IBNORCA, would like to be advised by ASHRAE on the development of a standard on Energy Efficiency
2	Argentine Institute for Standardization and Certification IRAM	Official Meeting Several meetings	Lic. Pablo Echevarría ASHRAE BEAP	Air Treatment Systems in Health Care Facilities  New IRAM 80400 regulation based mostly in Ashrae's Standard 170-2017	The Argentine Chapter of ASHRAE had been invited to be part of the technical advisory committee for the drafting of a standard on Air Treatment Systems in Health Care Facilities entrusted to the Argentine Institute for Standardization and Certification IRAM requested at the initiative of the University of Buenos Aires.

► ASHRAE Region XII



	Government Official(s)	Drop By or Official Meeting?	ASHRAE Volunteers Present	Issues or Bills Discussed	Notes
3	Union of Maintaining Establishments of Early Childhood Schools in the City of São Paulo, Federal Council of Chemistry, Union of the Educational Establishments of the State of São Paulo, the Brazilian Society of Contamination Control, the Epidemiological Center of the State of São Paulo and the National Council for Climatization and Refrigeration.	Official Meeting 1 webinar meeting	Brasil Chapter	School reopening procedures after pandemic	ASHRAE Barsil Chapter was mediator of the webinar 'Air Quality in Schools
4	INTN - National Institute of Technology, Standardization and Metrology y por otro lado el Ministerio de Abiente MADES .	Official Meetings	Paraguay Chapter	Ashrae Standards	
5	Environmental Ministry	Official Meetings	Paraguay Chapter	Sustentability	

► ASHRAE Region XII



	Government Official(s)	Drop By or Official Meeting?	ASHRAE Volunteers Present	Issues or Bills Discussed	Notes
6	Representative of the UNIDO program.	Official Meetings	Ecuador Chapter	Ashrae Standards Refrigeration	The main purpose of UNIDO, is to reduce the use of HCFC and HFC, according to the Montreal Protocol, and subsequent Kigali amendment. They have discussed about the importance of having an enforcing mechanism
7	Ministry of Production	Official Meetings	Ecuador Chapter	Ashrae Standards	Currently, all members for the committees for official standards are defined by the standaization agency (INEN). The ministry is in the process of signing an agreement to include private companies and associations such as us, in the committees. If and when the agreement is signed, the ministry is going to propose for us to have a chair in all committees for standards in refrigeration and air conditioning.

► ASHRAE Region XII





# Ashrae and AIA

Magazine de Refrigeración, Aire Acondicionado, Calefacción y Ventilación

Año 11 / Edición N° 61  
Septiembre / Octubre 2019

# RAC & V

» LATINOAMERICA



## Climatización en tiempos de ahorro

¿EL EDIFICIO MÁS SUSTENTABLE DEL MUNDO?  
New Logis III, en Holanda, en la cima del ranking

**SISTEMA RIACHUELO**  
La obra de saneamiento más grande de Latinoamérica

INTERNACIONAL  
ACUERDO

## Un acercamiento para seguir avanzando

La ASHRAE y el American Institute of Architects (AIA) acuerdan un Plan de Trabajo que se com...

El 22 de mayo último, se firmó un memorando de entendimiento entre ASHRAE (American Society of Heating and Air-Conditioning Engineers) y el Institute of Architects (AIA) para avanzar los intereses mutuos de sus respectivos países. Para implementar este acuerdo, AIA y ASHRAE están...

Las partes confían en que este gran paso para el trabajo en conjunto será un ejemplo para otras organizaciones prestigiosas y enfocadas hoy en día en mejorar la eficiencia energética y la sostenibilidad. Fundado en 1857, el Instituto de Arquitectos (AIA) es el líder que reúne a los arquitectos...

Verónica Roson



nar las nuevas tecnologías, tendencias y prácticas, por lo tanto se comprometen a publicar los eventos de ambas organizaciones, proveer descuentos especiales en publicaciones tarifadas, explorar nuevas oportunidades de trabajo en conjunto, entre otras.

Educación: promover oportunidades educativas tanto en arquitectura como en ingeniería, en todos sus niveles, intercambiando ideas sobre cómo promover la Ciencia, la Tecnología, la Ingeniería, la Arquitectura y las Matemáticas.

Coordinación de actividades técnicas: los miembros de ASHRAE y AIA comparten muchas áreas de interés técnico común, incluida la salud, la seguridad del medio ambiente construido, la eficiencia energética, la resiliencia y la transparencia de los materiales. Las dos organizaciones acuerdan fomentar la cooperación técnica en estas y otras áreas de interés común.



12 / Arquitectura de nuestro siglo: César Pelli  
28 / Tokio: Sistema de aire acondicionado de alta temperatura y calefacción de baja temperatura

Para cerrar, queremos destacar el Comité de Asuntos Gubernamentales (Government Affairs Committee), responsable de promover la cooperación entre los miembros de ASHRAE y los gubernamentales locales, estatales y nacionales. Este Comité es el responsable de buscar acciones e implementarlas en los asuntos de gobierno y públicas relacionadas con el medio ambiente, la eficiencia energética y la calidad del aire.

Diversidad e inclusión: ambas organizaciones se esfuerzan por defender una cultura de equidad, diversidad e inclusión en todos los aspectos de la operación y la gestión.



Equipos y Componentes para Refrigeración y Aire Acondicionado

Bv. 27 de Febrero 2439 - (0666) Rosario, Santa Fe - Telefax (0341) 433 1330 / 2067 - ventas@frigofe.com.ar

**clima**

12 / Arquitectura de nuestro siglo: César Pelli  
28 / Tokio: Sistema de aire acondicionado de alta temperatura y calefacción de baja temperatura

283  
2019 / Año 43  
ISSN N°0327-9760

Asociada por:  
Capital ASHRAE de Argentina  
Cámara Argentina de Climatización, Aire Acondicionado y Ventilación

## ASHRAE en Argentina

### ASHRAE y EL AMERICAN INSTITUTE OF ARCHITECTS (AIA)



El pasado 22 de mayo se firmó un memorando de entendimiento entre ASHRAE (American Society of Heating and Air-Conditioning Engineers) y el AIA (American Institute of Architects) para avanzar los intereses mutuos de sus respectivos miembros. Para implementar este memorando, AIA y ASHRAE están desarrollando un Plan de Trabajo que se completará a fines de este año calendario. Creemos que éste es el primer gran paso para el trabajo en conjunto de ambas organizaciones prestigiosas y enfocadas hoy en día en mejorar las tecnologías y la eficiencia energética para lograr un futuro más sustentable.

Fundado en 1857, el Instituto Americano de Arquitectos (AIA) es la asociación profesional líder que reúne a los arquitectos con licencia, profesionales emergentes y socios aliados. A través de este convenio, ambas asociaciones se comprometen a trabajar en forma conjunta para promover los intereses mutuos de todos sus miembros, avanzando las siguientes actividades y objetivos:

**Comunicación y Liderazgo:** Se reconoce la importancia de la comunicación, por lo tanto ambas organizaciones se comprometen a mantener reuniones presenciales o virtuales regulares entre sus distritos, comités, a través de sus representantes designados, con el objetivo de asegurar el avance de los distritos propios, mantener a las organizaciones informadas sobre las principales actividades y discutir nuevas oportunidades de colaboración.

**Seminarios y Conferencias:** Para el enriquecimiento de los programas técnicos, se promoverá de creación y/o panelistas en ambas organizaciones, co-organizadores o colaboradores tanto en conferencias como en seminarios locales o regionales.

**Desarrollo de los Jóvenes Profesionales:** ASHRAE y AIA se comprometen a conectar a los líderes y jóvenes profesionales (Young Engineers in ASHRAE) y (Young Architects Forum) para explorar actividades en conjunto que ayuden al desarrollo temprano de la carrera profesional.

**Divulgación Pública:** Donde sea mutuamente beneficioso y en la medida permitida por la ley y las políticas corporativas, ASHRAE y AIA acuerdan trabajar juntos en objetivos y visiones de escritos públicos comunes en publicaciones tanto impresas como electrónicas. Las publicaciones tanto impresas como electrónicas son el principal medio para diseminar las nuevas tecnologías, tendencias y prácticas, por lo tanto se comprometen a publicar los eventos de ambas organizaciones, proveer descuentos especiales en publicaciones tarifadas, explorar nuevas oportunidades de trabajo en conjunto entre otras.

**Educación:** Promover oportunidades educativas tanto en arquitectura como en ingeniería, en todos sus niveles, intercambiando ideas sobre cómo promover la Ciencia, la Tecnología, la Ingeniería, la Arquitectura y las Matemáticas.

**Coordinación de Actividades Técnicas:** Los miembros de ASHRAE y AIA comparten muchas áreas de interés técnico común, incluida la salud, la seguridad del medio ambiente construido, la eficiencia energética y la resiliencia y la transparencia de los materiales. Las dos organizaciones acuerdan fomentar la cooperación técnica en estas y otras áreas de interés común.

**Investigación:** Reconociendo que la investigación es la propiedad de la organización y sus miembros, y teniendo en cuenta la Agenda de Investigación 2019-2020 de AIA, las organizaciones se comprometen a promover o colaborar en la investigación de cada uno, incluida la investigación para la creación de proyectos conjuntos derivada de resultado de investigaciones existentes.

**Servicio a la Comunidad:** ASHRAE y AIA investigarán el trabajo conjunto en un proyecto de servicio comunitario centrado en la construcción de salud y bienestar para las comunidades.





Lecturers:

Dr. Samir Abdulghaffar (Consultant in radiologist for NHS, Surrey & Sussex)
Prof. Dr. Mahmoud Fouad (ASHRAE)
Dr. Hesham Safwat (ASHRAE Cairo)

Wednesday April 29, 2020
10:30 PM

Second Part Agenda (Engineering Perspective)

- Contamination Control Considerations
Site Selection and Services Requirements
Basic requirements and air flow patterns
Disaster planning and Emergency planning

Webinar Sponsor



Annual Platinum Sponsor



ASHRAE Argentina Chapter

WEBINAR

Ventilación en sistemas de climatización, humedad relativa e influencias en la calidad ambiental

Lunes 18/05 18hs -Arg-

INSCRIPCIÓN ONLINE

Actividad libre y gratuita sin límites de asistencia

- Colombia Monterrey Ecuador 16hs
Bolivia Paraguay Florida (EE.UU.) 17hs
Argentina Chile Brasil 18hs
España 23hs

Apertura - Presentación ASHRAE (5 minutos)
Ing. Germán Martínez (ASHRAE HBDP Certified)

Aplicación del Standard 62.1 de ASHRAE (40 minutos)
Prácticas y recomendaciones para contar con ambientes confortables y saludables
Ing. Paula Hernández (Comité de Nominación ASHRAE Argentina)

Humedad relativa y Calidad del aire (40 minutos)
Arq. Verónica Rosón (ASHRAE BEAP Certified)

Infection Control & Isolation Rooms Part 3 Free Webinar

First Part Agenda (Medical Perspective)

- Introduction on infection control from the medical side
COVID 19 and its challenges on infection control
Coordination between Hospital Engineering team with the medical team



WEBINAR HVAC DURANTE Y DESPUÉS DE COVID-19
Análisis y plan de acción para reactivar la economía

Expositor: Ing. Donald J. Hay

Director General de Grupo TECSIR, Fellow & Life ASHRAE Member

FECHA: Viernes 1 de Mayo 2020

HORA: 15:00 a 16:30 hrs. HORARIO CENTRO

REGISTRATE EN: https://attendee.gotowebinar.com/register/6995664028970890764

www.ashraemonterrey.org





# Climate Change

## The Change In The Environment



WEBINAR SERIES

# CORONAVIRUS AND YOUR INDOOR AIR QUALITY

Preparing for a Pandemic!!

PART ONE: FRIDAY 27TH MARCH, 2020  
PART TWO: THURSDAY 2ND APRIL, 2020  
PART THREE: THURSDAY 9TH APRIL, 2020

TIME: 6:30PM

Queries: [ashraecaricom@gmail.com](mailto:ashraecaricom@gmail.com)

Scan QR Code to Register

EVENTBRITE: CORONA VIRUS AND YOUR INDOOR AIR QUALITY

Registration  
\$30 USD (Non-Chapter Member Rate)  
\$20 USD (Chapter Member Rate)  
Members Check Email/Basecamp for Code



HOSTED BY ASHRAE  
COLLABORATION WITH  
AND THE F  
JOIN OUR DISTINGUISHED  
THEY SEEK TO EDUCATE  
BRING A CHANGE

VENUE: UNIVERSITY OF THE WEST  
ST. AUGUSTINE CAMPUS, B  
LECTURE THEATRE 1  
HOSTS: ASHRAE TRINIDAD STUDENT  
DATE: MARCH 26TH 2020  
TIME: 2:00PM

LIGHT REFRESHMENTS  
WILL BE SERVED



## Webinar de Refrigeración y Ventilación Jueves 07 de Mayo de 19:00 a 21:00Hs



Ing. Rodrigo Arias  
Presidente ASHRAE Paraguay  
Gerente de Operaciones Logísticas Retail S.A. Grupo Verci  
Detalle sobre el Capítulo Paraguayo ASHRAE



Javier Korenko  
Presidente Electo ASHRAE  
Gerente de Ventas Danfoss  
Actualidad de ASHRAE COVID-19



Emiliano Bauta  
Responsable Técnico Danfoss  
Utilización de la ASHRAE para el calculo de carga



Juan Pedro Arcon  
Gerente General Arcond  
La Ventilación en ASHRAE

Regístrate Gratis en:  
<https://attendee.gotowebinar.com/register/845899>

ASHRAE Paraguay

## ASHRAE South Brazil & IBPSA-Brazil Building Performance Simulation Conference

ROBERTO LAMBERTS, Ph. D.

11AM BRT Brazilian Building energy Labeling

MONTGOMERY, P.E.

02PM BRT ASHRAE "Building EQ" Building Program and Energy related programs

AWLEY, Ph. D.

11AM BRT Impacts of Climate Change and

Viendo la pantalla de Julio Gallardo

Hablando: Julio Gallardo

Zoom: 90%

Captura de pantalla

Compartir

Viendo la pantalla de Julio Gallardo

Audio

Panel de mandos

Asistentes: 3/11 de 1000 (máx.)

Asistentes (187)

Grupo de gestión (4)

NOMBRES

- Franco D'Atti (Organizador)
- German Martinez (Organizador)
- Julio Gallardo (Presentador)
- Veronica Fosson (Panelista)

Todos Todos

Sondeos (0/0)

Preguntas

Chat

Argentina Chapter Webinar: Instalación y p...

ID de seminario web: 696-191-983

Esta sesión se está grabando.

GoToWebinar

Argentina Chapter Webinar: Instalación y p...

ID de seminario web: 696-191-983

Esta sesión se está grabando.

100%

18:17

23/4/2020

ASHRAE Argentina Chapter



Jointly Organized by:



# Virtual DL Presentation

## Emotional Intelligence

Let's discuss - How to use Emotional Intelligence professionally



Pre-Registration

<https://zoo>

For any email address

ASHRAE HELLENIC CHAPTER  
**WEBINAR**



**THURSDAY 30 APRIL 2020**  
**18:00 - 20:00**  
(Eastern European Summer Time EEST)



ASHRAE POSITION DOCUMENT ON  
**Airborne Infectious Diseases**

**Prof. LJUBOMIR JANKOVIC,**  
MSc, PhD, FIAP, CEng, MCIBSE, MASHRAE

## "ASHRAE Position Document on Airborne Infectious Diseases/ASHRAE COVID-19 Preparedness Resources"

Thursday 30, April 2020

Panel Discussion on  
**COVID-19 - Opportunities for Sustainable Development?**

Panelists from eight countries will discuss on future Sustainable Development Opportunities due to this COVID-19

May 01, 2020 | 12:30 PM - 02:00 PM (GMT)

### Panel of Experts

 <b>Dr. Ahmed Alaa</b> Director & Regional Chair ASHRAE Region AI Large - UAE	 <b>Mr. Richie Mittal</b> Regional Members Council Representative ASHRAE Region AI Large - India	 <b>Prof. Essam E. Khalil</b> ASHRAE Director At Large Professor at Cairo University - Egypt	 <b>Mr. Mohammad Tassi</b> Vice Chair ASHRAE CTC SIBAC Faculty - South Arabia	 <b>Mr. Farhan A. Mehboob</b> Former ASHRAE CTC Chair Presidential Member ASHRAE Pakistan Chapter - Pakistan
 <b>Mr. Nohad Boudani</b> Past President Lebanon Green Building Council & Presidential Member ASHRAE Lebanon Chapter - Lebanon	 <b>Mr. Pankaj Dharkar</b> Chairman ASSOCIATION National Council for GEM Sustainability Green Certification Program - India	 <b>Ms. Shona O'Dea</b> VISA Jr. Vice Chair Young Engineers in ASHRAE Building Performance Analyst - USA	 <b>Mr. Hasmotuzzaman</b> Co-Chairman Bangladesh Green and Sustainable Development Council - Bangladesh	

Moderator: 

Register yourself here : <https://bit.ly/2W7ziVB>

Supported by:

Organized By: 

Supported By: Jointly Organized by-  

Webinar On  
**Insights into ASHRAE 90.1**



**27<sup>th</sup> April 2020**  
**6:00 PM (IST)**



**Sam Mason, P.E.,** Member of ASHRAE 90.1 Technical committee, BEMP, LEED® AP BD+C, is the principal at Encompass Energy LLC. He provides energy analysis, code assessment, and design assistance services for developers, contractors, architects, and engineering firms across North America, Europe, and the Middle East. He has over ten years of experience in the design and construction industry, with a focus on pragmatic approaches to energy efficiency and sustainability. His expertise includes detailed HVAC design and he is an expert in whole-building energy simulation and optimization.

Who can attend-  
Architects, Engineers, Developers,  
Govt Officials, Facility Managers,  
Building Energy Professionals

Registration Link (1000 may join)-  
<https://attendee.gotowebinar.com/register/1341061544678562320>



Conferencia vía WEB

# 05 de mayo

de 2020 / Horario: 9:00 a 11:00 am

## "ESPECIFICACIÓN DE SISTEMAS HIDRÓNICOS"

COSTO: **GRATUITO**



Ponente:  
**José Luis Frías Lavalle**

INSCRIPCIONES:  
<http://ashrae.dhimex.com>

INFORMES:  
Cel. 55 8768 9710  
correo: [asistente@ashraemx.org](mailto:asistente@ashraemx.org)

El registro se cierra el 4 de mayo a las 12hrs

gion





BOLIVIA SECTION & SANTA CRUZ STUDENT BRANCH INVITAN:

**VENTILACIÓN PARA DISMINUIR EL RIESGO DE INFECCIONES POR VÍA AÉREA APLICADA A QUIRÓFANOS**

TECH HOUR - VIRTUAL

MIÉRCOLES 13 DE MAYO  
 18:00 - 19:30 (GMT-4)  
 16 PM MEX  
 17 PM COL - ECU  
 18 PM BO - PY - FL - CARICOM  
 19 PM ARG - CL - BR

Disertante:



Ing. Gustavo Gutierrez  
 Life Member ASHRAE

Organizan:  
 Ing. Carlos Álvarez  
 ASHRAE Bolivia Section  
 Joaquin Ledezma  
 ASHRAE Santa Cruz Student Branch



# STUDENTS

webinar

## Estándares ASHRAE para la calidad de aire interior



**Cristhian Felipe Estrada Castro**

Presidente Rama Estudiantil Univalle

**Standard 62.1**  
 VENTILACIÓN PARA UNA ACEPTABLE CALIDAD DE AIRE INTERIOR



**Daniela Díaz García**

Rama estudiantil Monterrey

**Standard 55**  
 CONFORT TÉRMICO AMBIENTAL



**Germán Krawiec**

Presidente National Technological Student Branch

**Experiencia Winter Meeting 2020**



**VIERNES 15/5/2020**



Actividad libre y gratuita sin límites de asistencia

**CIERRE - Ing. Walter Lenzi**  
 Beneficios de ser estudiante ASHRAE



Colombia  
 Monterrey  
 Ecuador  
 14hs



Bolivia  
 Paraguay  
 Florida (EE.UU.)  
 15hs



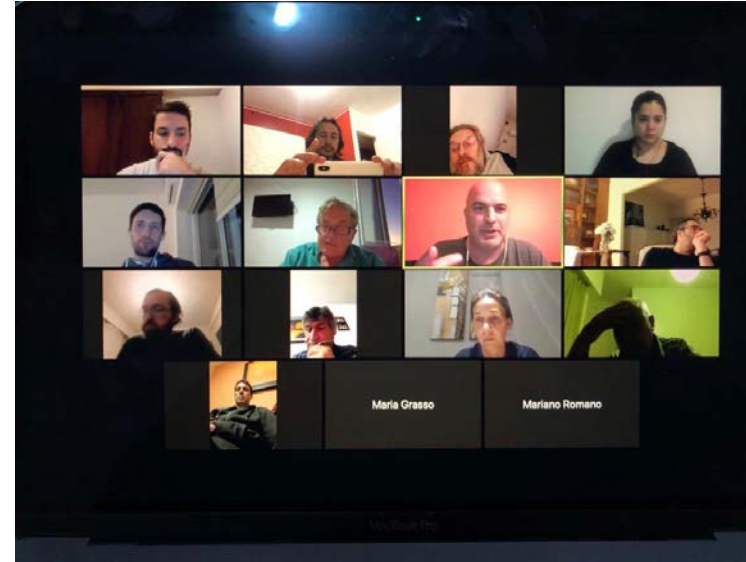
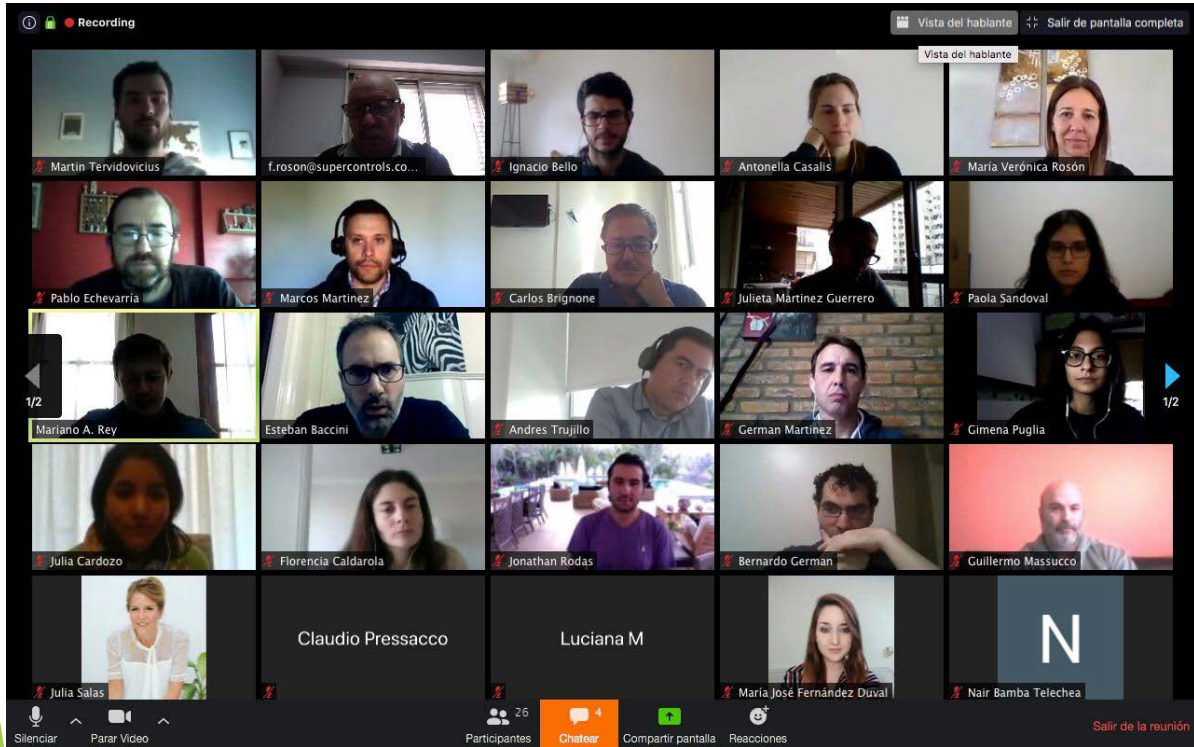
Argentina  
 Chile  
 Brasil  
 16hs



España  
 21hs

INSCRIPCIÓN ONLINE





▶ ASHRAE Region XII



▶ ASHRAE Region XII

## **E: STANDARDIZED RVC/ REPORTING FORMAT**

The following information is compiled into a summary spreadsheet showing activity for each region. The spreadsheet is reviewed by GAC at each Society meeting.

>>> For ASHRAE Region XIII (prepared by Dr. Sam C. M. Hui): [Up to 7 Jun 2021]

<b>ACTIVITY</b>	
<b>CRC</b> (1, 8, 15, 22 Aug 2020, virtual meetings)	
Total number of chapters in region	10
Number of chapters present	10
Number of GA chapter chairs present	8 GA chapters chairs + 2 chapter delegate/alternate
Percentage of participation	100%
Percentage of GA chapter chair participation	80%
No. of planning sessions held	Discussions during the GAC workshop
<b>PAOE</b> (Up to 7 Jun 2021)	
No. of Chapters Reporting PAOE Points:	10
No. of Chapters Making Society Minimum :	8
No. of Chapters Making Society PAR :	8
Highest PAOE Points by a Chapter:	3050 (Macao Chapter)
Percentage of chapters reporting	100%
Percentage of chapters making Society Minimum	80%
Percentage of chapters making Society PAR	80%
<b>CHAPTER VISITS</b> (1 Jul 2020 to 7 Jun 2021)	
No. of visits made:	Nil (travel restriction)
No. of visits scheduled:	3 nos. (Indonesia, Japan, Macau) (*postponed due to pandemic)
Percentage of chapters visited (in 2020-2021):	0%
>> Visits made in my RVC term (1 Jul 2018 to now):	5 nos. (Hong Kong, Indonesia, Malaysia, Japan, Taiwan)
<b>GAC AWARDS</b> (1 Jul 2020 to 7 Jun 2021)	
Government. Affairs Award	Nil
<b>Government Outreach Events</b>	
No. of Chapters Participating	Not applicable
No. of government officials visited	Not applicable
No. of ASHRAE members participating	Not applicable
No. of Chapters reporting	Not applicable
No. of days duration	Not applicable





# Government Affairs Committee (GAC) Region XIII Report

June 2021: ASHRAE Virtual Meeting

*Ir Dr. Sam C. M. Hui*

Regional Vice Chair --  
Government Affairs

[sam.cmhui@gmail.com](mailto:sam.cmhui@gmail.com)

Jun 2021





# Regional Vice Chair -- Government Affairs for Region XIII (2021-2024)



*Mr. Albert SIN Yew T.*

*(Singapore Chapter)*

*Land Transport Authority*

*Email: [sinyt@singnet.com.sg](mailto:sinyt@singnet.com.sg)*

# Region XIII GA Chapter Chairs (2020-2021)

- ▶ Singapore: Mr Kwong Chin LIEW
- ▶ Hong Kong: Mr Michael SUNG Ka Leung
- ▶ Malaysia: Mr Swei Keong CHEA
- ▶ Taiwan: Dr Yu-Hao Derek KANG
- ▶ Philippines: Mr Cesar Luis D L LIM
- ▶ Thailand: Mr Pachern SANGBUTSARAKUM
- ▶ Indonesia: Prof Ari Darmawan PASEK
- ▶ Japan: Dr Kitaro MIZUIDE
- ▶ South Korea: Mr Sangtaek OH
- ▶ Macao: Dr Thomas Huang



**MUCH APPRECIATED**

감사합니다 Natick  
Grazie Danke Ευχαριστίες Dalu Obrigado  
Thank You Köszönöm  
Tack  
Спасибо Dank Gracias  
谢谢 Merci Seé  
ありがとう

# PAOE-GA: 5 Jun 2021

- ▶ Hong Kong: 1900
- ▶ Indonesia: 1600
- ▶ Japan: 150
- ▶ Macao: 3050
- ▶ Malaysia: 1800
- ▶ Philippines: 2950
- ▶ Singapore: 950
- ▶ South Korea: 150
- ▶ Taiwan: 1600
- ▶ Thailand: 950

(\*PAR: 650, Min Points: 500)



# Region XIII Activities (2020-2021)

- ▶ 1, 8, 15, 22 Aug 20 (Sat) Virtual CRC
  - ▶ GAC workshop & planning discussions
- ▶ 23 Aug 20 (Sun) Virtual Regional Planning Meeting I
- ▶ 5, 12 Jun 21 (Sat) Virtual Regional Planning Meeting II
  - ▶ Meetings & President-Elect training
- ▶ 20-21 Aug 2021 (Fri-Sat) Virtual CRC
  - ▶ GAC & others virtual workshops

# ASHRAE Region XIII Virtual CRC, Aug 2020





# ASHRAE Region XIII Virtual Regional Planning Meeting II, Jun 2021

Zoom Meeting

Recording

Apichit Lumlertpo...	Yeong Jin, KING-M...	Den Low	Fu-jen Wang	Albert Sin	Minki Sung	KC Ng
Bill Wang	Ardiyansyah Yatim	Vincent Wong@ AS...	Rodel G. Simbillo, P...	Taiwan Chapter Pr...	DAPM_Chea SK	JIntana Sirisantana
Rana Yusuf Nasir	Khoo Chun Yong	ChiaChi	Hungwen Lin(TW C...	Law Kozen	Victor Bong	Chirdpun Vitoorap...
Dong Hwa Kang	Soon Jin Chew	Tracy Pang	Wenbin NG	CS Wong 的 iPhone	Yuichi Takemasa	Peter Cheng (SG C...
Jati Widiputra (WID...	Kai Sin Poh	Leong Cheng Wee	Jeffrey ENG	Jerry HUANG	Guan Hou iphone...	henry
Yongkie Dunham-...	Pidchapad Kidkird...	Fathurrahman Yud...	Rapeerat Thanyaw...	Tenny Tam	Ng Yong Kong	Mark Manuel
Dr Sam C M Hul	Indonesia - Delega...	Sung Lok Do	Truong Ngo	Herlin Herlianika -...	Manuel Belino	Patrick Huang (...)
ASHRAE						

# Highlights (2020-2021)

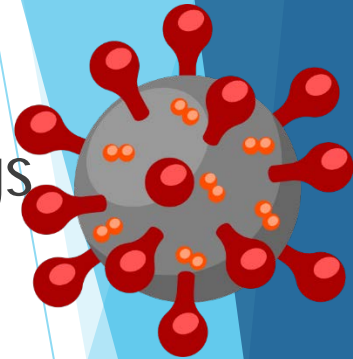
## ▶ Events:

- ▶ 18 June 2020 (Thu) ASHRAE Webinar: Managing COVID-19 and HVAC in Buildings for Emerging Economies

## ▶ Examples of Chapter GA reports:

### ▶ Malaysia Chapter

- ▶ 8 Jun 2021 Meeting for Development of JKR Standard on Indoor Environmental Quality (IEQ) for Government Office Buildings
- ▶ 5 Apr 2021 MASHRAE-IEM Memorandum of Understanding signing



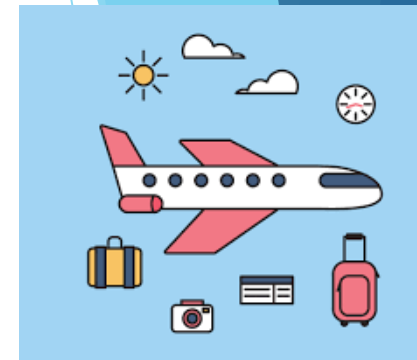
# Highlights (2020-2021)

- ▶ Examples of Chapter GA reports:
  - ▶ Philippines Chapter
    - ▶ 18 May 2021 Contribute to Department of Energy (DOE), Philippines on revised 2020 edition of the Guidelines on Energy Conserving Design of Buildings
  - ▶ Hong Kong Chapter
    - ▶ 4 May & 2 Feb 2021 Communication Meetings between ArchSD and Hong Kong Professional Institutions
    - ▶ 31 May 2021 Meeting with EMSD on New Refrigerants



# Chapter visits

- ▶ Completed in my RVC term (1 Jul 2018 to now):
  - ▶ 5 nos. (Hong Kong, Indonesia, Malaysia, Japan, Taiwan)
- ▶ Scheduled:
  - ▶ 3 nos. (Indonesia, Japan, Macau) (\*postponed due to pandemic)
- ▶ Under planning:
  - ▶ 4 nos. (Philippines, Singapore, South Korea, Thailand)







# Region XIV - GAC Report

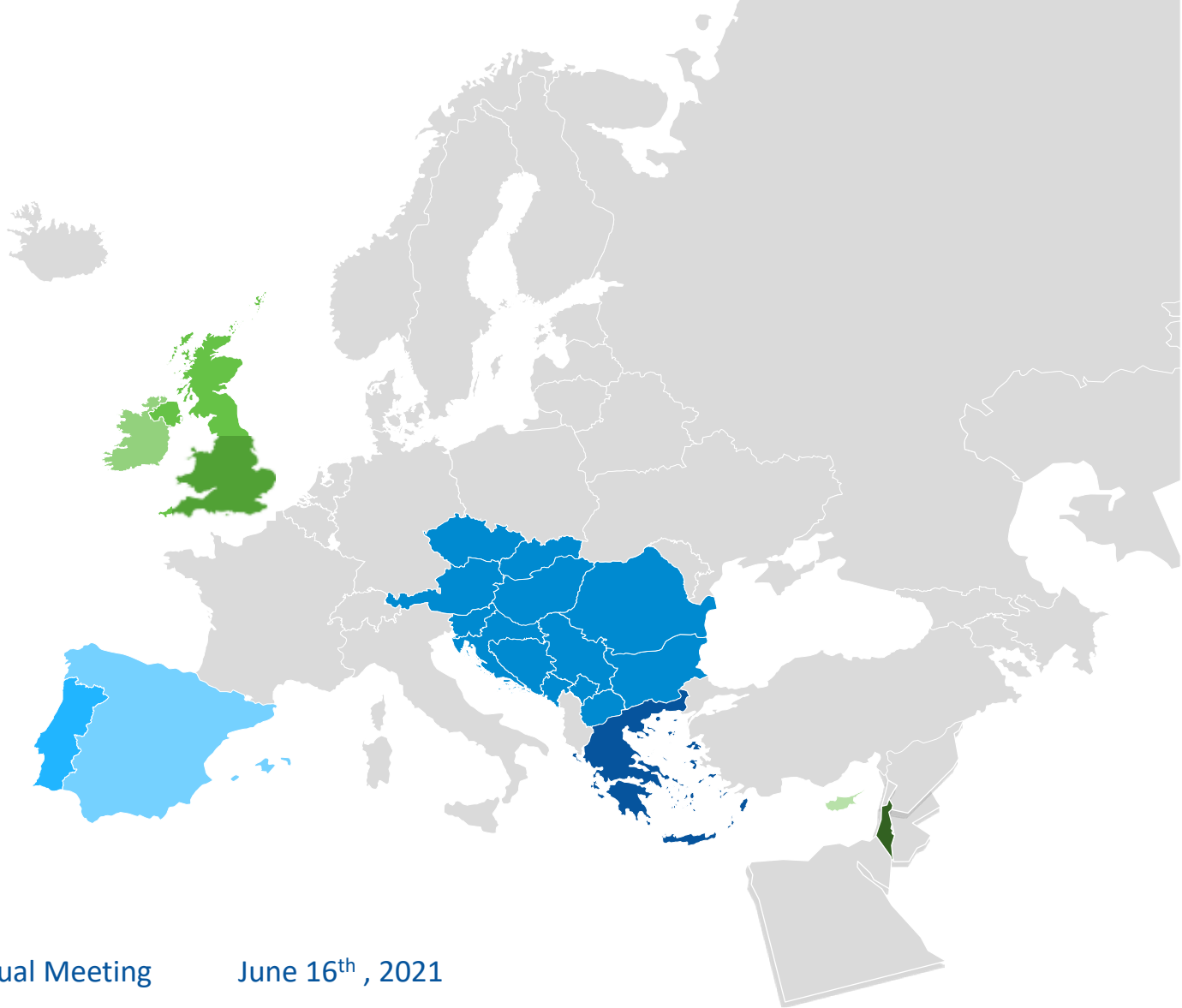
**George Pantelidis**

*RVC-GA Region XIV*

*Vice president, ASHRAE Hellenic Chapter*

# The Region

#	Chapter
168	Hellenic
176	Danube
177	Portugal
182	Spain
203	Cyprus
204	Ireland
205	UK Midlands
206	UK London
214	Israel



## **GA Workshop – Virtual CRC (2.9.2020 – 18 Participants)**

Discussion on overlapping with other organizations, which was concluded with mutual agreement that goodwill interaction should be pursued.

## **Brussels office**

**ASHRAE European Policy Update.** 1<sup>st</sup> issue released on October 21<sup>st</sup>, 2020 and is distributed to all region members monthly.

## Spanish chapter

**Catalonia Governmental Administration.** First meeting with GA chair to establish a collaboration.

## Portuguese chapter

**Energy Performance Buildings Directive update.** In progress. Jointly by Portuguese Engineers Association, Portuguese Section of REHVA and ASHRAE Portugal Chapter

## Israeli chapter

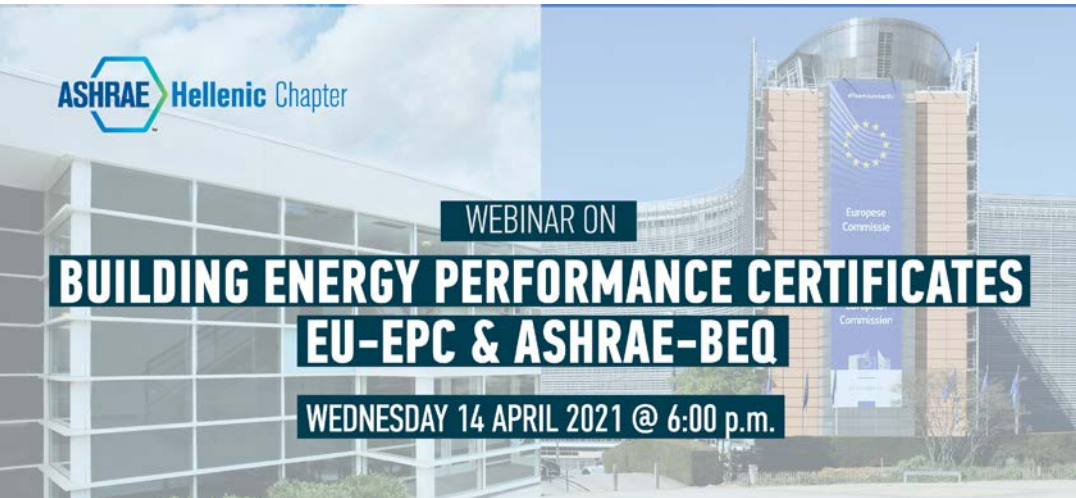
**Established relationship with ministry of Education and ministry of Health.** Not enough opportunities for communication due to Covid-19 and unstable political situation (consecutive elections)

## Hellenic chapter

- **Virtual event (8.12.2020 – over 700 Participants).** Event on an national energy efficiency subsidy program with the participation of the Head of Office, Secretariat General for Energy and Mineral Resources, Ministry of Environment and Energy
- **Virtual event (14.4.2021 – ca 200 participants).** *Building Energy Performance Certificates EU-EPC & ASHRAE Building EQ with the participation of 3 EU Policy officers and the Head of the Directorate of Energy Policies and Energy Efficiency of the Greek Ministry of Environment and Energy.*
- **Ongoing collaboration with Hellenic Navy.** MOU was renewed. The chapter was consultant for a project in Leros and Crete regarding dehumidification. The chapter has received an award from the Chief of Hellenic Navy General Staff.
- **National committee for Energy Performance Buildings Directive (EPBD).** Hellenic chapter BoD members participate in the committees. ASHRAE standards are expected to be referenced in the final documents.



# Accomplishments – Current situation









# PAOE Points

4 out of 9 chapters reporting GA PAOE Points:

Chapter	GA PAOE Points
Hellenic	300
Ireland	50
Danube	50
UK Midlands	50

# Goals for 2021

- Organize cross-regional virtual events 
- Establish communication with EU commission 
- Chapter visits (as soon as situations allow it) 
- Engage more GA chairs to participate and achieve PAOE points **Better but needs improvement**
- All chapters to have GA chairs (3 chapters with no chair) 

# GAC Report Region at Large

**GAC Summer Meeting  
Virtual (Online)  
June 16, 2021**

*Gian Modgil, Fellow ASHRAE  
RVC-RAL*



# CRC – December 4-6, 2020 - Virtual

## Total 32 Chapters in the Region at Large

### 20 Chapters in Sub Region I

### 12 Chapters in Sub Region II



		<b>Nishant Gupta</b> ...	<b>Mohammad Tas...</b>	
			<b>Muhammad O...</b>	<b>Jenson Sebastia...</b>
<b>Harshal Surange</b>	<b>Nohad Boudani...</b>	<b>Maged Fouad H...</b>	<b>Eman Abu Tale...</b>	<b>Md. Kabirul H...</b>

Leave M

Give feedback

# POAE STATUS

*Chapters reporting POAE points: 15*  
*Chapters making Society Minimum: 9*  
*No. of Chapters Making Society PAR: 9*  
*Highest POAE Points by Chapter: 2050*  
*Percentage of Chapter reporting: 48%*  
*Percentage of Chapter making Society Minimum: 29%*  
*Percentage of Chapter making Society PAR: 29%*

<i>Chapter Name</i>	<i>Government Affairs: Minimum 500; PAR 650</i>
<i>INDIA</i>	<i>950</i>
<i>SAUDI ARABIA</i>	<i>0</i>
<i>CAIRO</i>	<i>900</i>
<i>LEBANESE</i>	<i>0</i>
<i>WESTERN INDIA</i>	<i>1100</i>
<i>KUWAIT</i>	<i>0</i>
<i>ASHRAE BANGALORE</i>	<i>150</i>
<i>SRI LANKAN</i>	<i>0</i>
<i>PAKISTAN</i>	<i>0</i>
<i>ASHRAE FALCON</i>	<i>0</i>
<i>NORTHERN PAKISTAN</i>	<i>0</i>
<i>BAHRAIN</i>	<i>700</i>
<i>QATAR ORYX</i>	<i>0</i>
<i>CHENNAI</i>	<i>0</i>
<i>PUNE</i>	<i>0</i>
<i>ASHRAE NIGERIA</i>	<i>0</i>
<i>ASHRAE MUMBAI</i>	<i>1850</i>
<i>CENTRAL PAKISTAN</i>	<i>50</i>
<i>ASHRAE DECCAN</i>	<i>50</i>
<i>TURKISH</i>	<i>50</i>
<i>BANGLADESH</i>	<i>0</i>
<i>SOUTH AFRICA</i>	<i>2050</i>
<i>FAISALABAD</i>	<i>0</i>
<i>PYRAMIDS</i>	<i>2050</i>
<i>JORDAN</i>	<i>0</i>
<i>EAST INDIA</i>	<i>700</i>
<i>RAJASTHAN</i>	<i>960</i>
<i>CHANDIGARH</i>	<i>0</i>
<i>OMAN</i>	<i>200</i>
<i>LIBYA</i>	<i>0</i>
<i>Sudan</i>	<i>50</i>

A decorative graphic consisting of several hexagons. At the top left, two small white hexagons with black outlines are positioned. Below them, a larger solid black hexagon is partially overlapping a larger white hexagon with a black outline. The white hexagon is positioned to the right and slightly below the black one.

Regional Level  
Activities  
**Government  
Outreach**  
2020-2021





# Turkish Chapter

## ***GAC Workshop with Turkey Chapter - July 31, 2020***



Atilla BIYIKOGLU



Ayhan ONAT



Soner BIÇER



Mehmet Zahid Poyraz



Salih Zeki



GAC Workshop for sub region II - August 20, 2020



# ASHRAE's Chandigarh Chapter Hosts Panel Discussion on "Energy Efficiency in Commercial & Residential Buildings" August 14, 2020

Jointly Organized By:



Supported By:



## PANEL DISCUSSION

"Energy Efficiency in Commercial & Residential Buildings"



14<sup>th</sup> August 2020  
(Friday)



4:00 PM – 5:30 PM  
(India Time)



### Special Invitees from GEM



Mr. Surinder Bahga  
Chairman,  
GEM Punjab Chapter



Mr. Neeraj Arora  
Sr. Director & Head,  
ASSOCHAM GEM  
Green Building Certification Program



### PANELISTS



Mr. Saurabh Diddi  
Director,  
Bureau of Energy Efficiency



Mr. Balkar Singh  
Joint Director (EC)  
Punjab Energy Development Agency

### MODERATOR

### From ASHRAE RAL



Mr. Kushagra Juneja  
Managing Partner,  
M/s Design Occupancy  
Services LLP, Jaipur



Mr. G. C. Modgil,  
RVC-GAC (Govt. Affairs)  
ASHRAE Region-at-Large



Mr. Manav Jain  
Town Planner,  
Department of Local  
Government, Punjab



Mr. Ram Kumar  
Senior Project Officer,  
Uttar Pradesh New & Renewable  
Energy Development Agency

### Program Managers



Mr. Money Khanna  
Project Engineer,  
Punjab Energy  
Development Agency



Ar. Glory Srivastava  
Architect Consultant - UPNEDA  
Co-Chair - Communications,  
ASHRAE Chandigarh Chapter



Mr. Vikash Ranjan  
Technical Expert & Head,  
Energy Efficiency Programme, GIZ



Mr. Anurag Bajpai  
Co-Founder,  
M/s GreenTree Global

Join through Laptop / Phone  
(From your Office or Home)-

<https://tinyurl.com/buildingspanel>

For any queries, send your email at [ashrae.chd@gmail.com](mailto:ashrae.chd@gmail.com) or call +91- 96800 39127

RSVP:

Mr. Amardeep Singh  
President  
ASHRAE Chandigarh Chapter

Mr. Sunil Goyat  
Member – Govt. Affairs,  
ASHRAE Chandigarh Chapter

Mr. Sahil Kansal  
Chairman  
IPA Chandigarh Chapter

Mr. Sanjay Goel  
Chairman  
IIA Punjab Chapter

# ASHRAE Mumbai Chapter members met Honorary Corporator, of Corporation of City of Panjim, Government of Goa September 26, 2020



  
**Kishore Sastry**  
Corporator-Ward IV  
CORPORATION OF THE CITY OF PANAJI

01-10-2020

To  
The Board of Governors  
ASHRAE Mumbai Chapter  
Mumbai

Attention Mr. Mihir Sanghavi : President

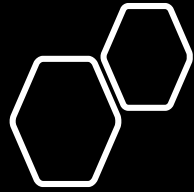
Dear Mr Sanghavi,

It was a pleasure meeting with Mr Mahesh Prabhu on behalf of ASHRAE Mumbai Team members in Goa on 26-9-2020.  
It was interesting to view the ASHRAE RAL presentation describing details about ASHRAE's objectives and core activities across the region at large and particularly about the active Mumbai Chapter.  
interesting to note that there have been recent scientific studies reporting about the role of air conditioning and ventilation in the control of the spread of this deadly virus and it is heartening to note that technical societies like ASHRAE are playing an active role in disseminating information and knowledge to the society at large by releasing Technical Guidelines, conducting webinars and panel discussions with experts from allied technical societies and medical professionals.  
Such initiatives by technical volunteer societies are need of the hour, we look forward to more exchange of ideas and meetings to further our common goals of defeating COVID 19 together. I commend The ASHRAE Mumbai Chapter for organising this informative meeting and presentation for me and look forward with assurance to assist your organisation to conduct more such presentations to Government of Goa and others.  
With best wishes to ASHRAE Mumbai Chapter

Kind regards

  
Mr Kishore Sastry

Phone: 8308031800, email: kishoresastry1969@gmail.com



**ASHRAE  
Rajasthan Chapter  
held Technical  
Talk on ASHRAE  
Standard 15 & 34  
with Rajasthan  
state officers on  
October 14, 2020**



Video conference interface showing participants: Gian Modgil (Host), CII Godrej GBC, Nisha Jayaram, Sandeep Tandon, Kiran Ananth, and Sanjeev M.

Logos: UNIDO (UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION), Sustainable Development Goal 9 (INDUSTRY, INNOVATION AND INFRASTRUCTURE), UNIDO, BEE (Energy to Life, Commerce), and gef.

## Facility for Low Carbon Technology Deployment

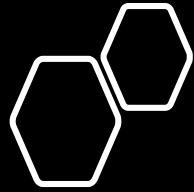
- Identify technology gap areas having scope for energy saving
- Select innovative technology solutions that address the gap
- Support demonstration and validate efficacy
- Facilitate Scale-up

INCLUSIVE AND SUSTAINABLE INDUSTRIAL DEVELOPMENT

WWW.UNIDO.ORG 2

**FLCTD Jury involvement with UNIDO and BEE for selection of Innovations November 10, 2020**





ASHRAE Falcon  
Chapter in  
process to sign  
collaboration  
MOU with CEBC  
“Clean Energy  
Business  
Council”





**Awareness Webinar on  
"Eco-Niwas Samhita"  
Energy Conservation Building Code  
for Residential Buildings  
ENS/ECBC-R**

**Date – 03<sup>rd</sup> November 2020 (Tuesday)  
Time – 03 pm to 05 pm**

**Agenda**

- ❖ Welcome address SDA      Mr. A K Jha,  
Executive Officer, EE&REM Centre
- ❖ Welcome note ASHRAE      Mr. K K Mitra,  
CTTC-Chair, ASHRAE India
- ❖ Initiatives taken by BEE      Ms. Akanksha Krishan  
Technical expert, BEE
- ❖ Initiative Taken By GIZ      Mr. Abdullah Siddiqui  
Technical Expert from GIZ
- ❖ Understanding of ENS      Mr. Siva Ram Edupuganti  
ECBC Master Trainer
- ❖ ENS Star Labelling      Mr. Akash Vajpai  
ECBC Master Trainer
- ❖ Vote of Thanks ASHRAE      Mr. Kanagaraj Ganeshan  
Vice President, ASHRAE India

Please register through the WebEx Link:-

<https://pwc-emeaec.webex.com/pwc-emeaec/onstage/g.php?MTID=e9655a05d96ac5f038f092119e8c19864>

For more information please contact

Ar. Shiva Rath, ENS Delhi Cell , EE&REM Centre, shiva.rath@pwc.com, +91 98618 69538

*An awareness programme organised  
in association with  
the Bureau of Energy Efficiency,  
Ministry of Power -Government of India  
and Energy Efficiency & Renewable Energy Management Centre*



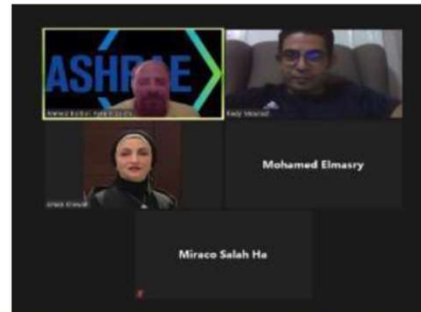
# RAL-Virtual CRC – December 4-6, 2020

A screenshot of a Zoom meeting grid showing 25 participants. The grid is arranged in 5 rows and 5 columns. Each tile contains a video feed of a participant, their name, and a mute icon. The participants are: Row 1: Alaa Eldin, Gian Chand Mo..., Nishant Gupta, Mohammad Tas..., Kim K...; Row 2: Chuck Gullledge, Bill McQuade, Osama Khayata, Richie Mittal, Ade Awujoola; Row 3: manoj chakravo..., Mihir N Sangha..., Bassel Anbari, Ahmed A.Fahim, irene Reichert; Row 4: Nitin Naik, Krishnan Visaw..., ahmed Nour, Muhammad O..., Jenson Sebastia...; Row 5: Harshal Surange, Nohad Boudani..., Maged Fouad H..., Eman Abu Tale..., Md. Kabirul H...; A red 'Leave Meeting' button is visible in the bottom right corner of the grid.

# GA Committee workshops and meetings.



## Pyramids Chapter





**ASHRAE's Participation in Jury for FLCTD by UNIDO**  
**19<sup>th</sup> January 2021**

Gian Modgil

Karthik Chandrasekar

Rajneesh Prasad

Sandeep Tandon

Aritra\_Sangam

Simmi Sareen

Sanjaya Shrestha

SaurabhChandra

**CARBON TECHNOLOGY ACCELERATOR 2020**

JOIN US FOR

**SEMI - FINALE Day 2**

JANUARY 19 | 10:00AM - 4:30PM IST

Industrial Low Carbon Tech  
 Resource Efficiency

- Pumps & Motors
- Space Conditioning

**JURY PANEL**


**Facility for  
 Low Carbon Technology  
 Deployment**

UNIDO-BEE-GEF Initiative



INNOVATION CHALLENGE LAUNCHED - AP




CMO Goa  @goacm · 11h  
Chief Minister @DrPramodPSawant held an interaction with ASHRAE MUMBAI CHAPTER on ASHRAE Standard 90.1.



  3  10 

**Hon. Chief Minister Shri Pramod Sawant of Goa on 19<sup>th</sup> February 2021 to apprise the participants :**  
They discussed ANSI/ASHRAE/IES Standard 90.1 and other technical resources. The Chief Minister's office also tweeted about ASHRAE.



CMO Goa  @goacm · 11h  
Chief Minister @DrPramodPSawant held an interaction with ASHRAE MUMBAI CHAPTER on ASHRAE Standard 90.1.



  3  10 

*ASHRAE Members Participated in World Bank Jury for Selection of Innovations in Sustainable Cooling in Indian Hospitality Sector*

# Sustainable Cooling in the Indian Hospitality Sector

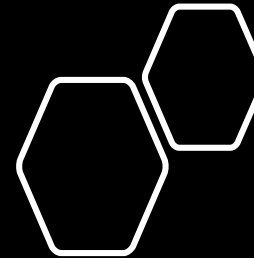


MAY 21, 2021

Re-cap: TechEmerge Advisor Network

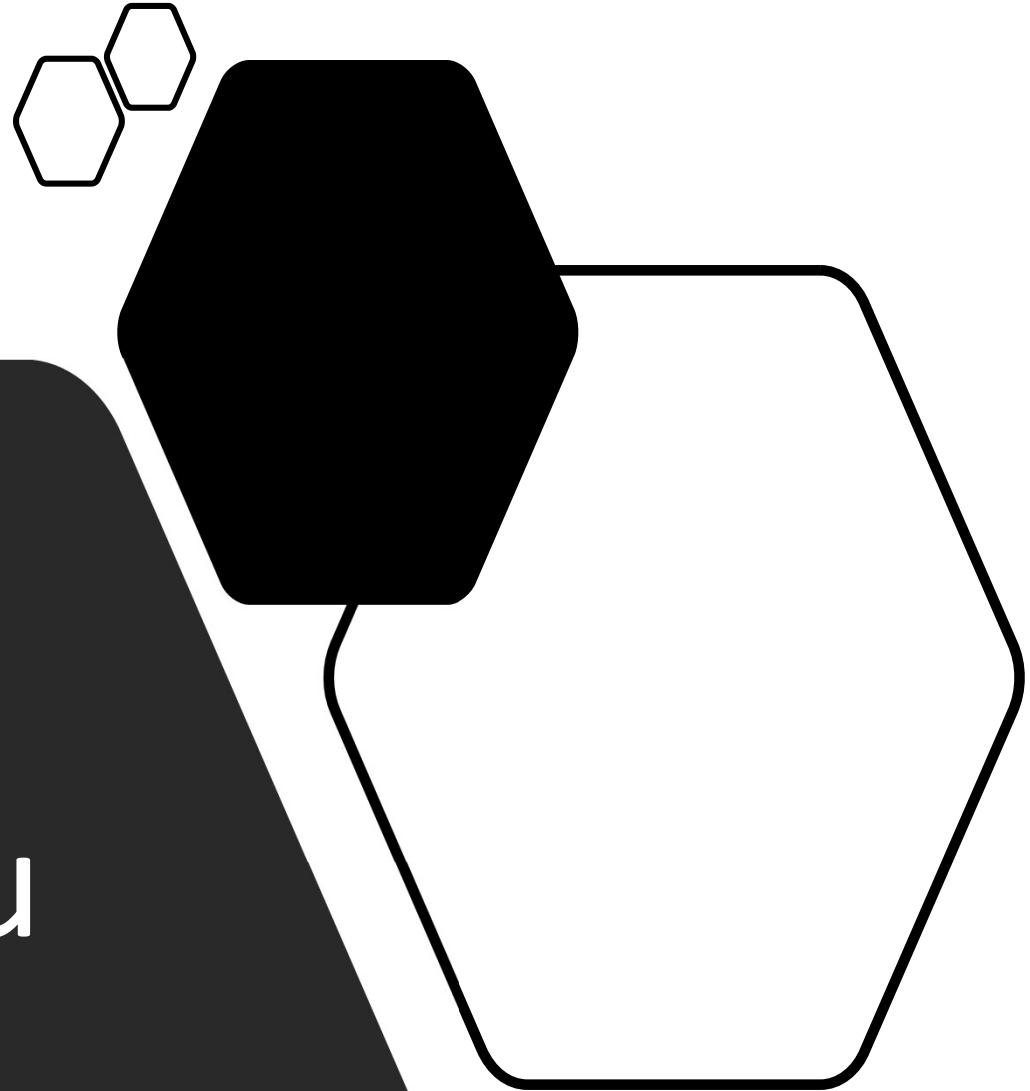


 Prof. Radhey S. Agarwal Technical Advisor Ozone Cell India	 Peter Cook Senior Investment Officer IFC	 Dr. Sukumar Devotta Expert and Technical Advisor in Sustainable Cooling Former Director, NEERI	 Pierre Jaboyedoff Co-founder & Associate Effinart	 Pooja Goel Senior Hospitality & Tourism Industry Specialist IFC
 Gian C. Modgil Senior Technical Consultant IFC	 Vijay Thacker Partner & CEO Crowe Advisory India	 Arvind Srinivasan Principal Investment Officer IFC	 Terry Townsend President Townsend Engineering	 Rajesh Kumar Miglani Senior Climate Business Specialist IFC



*ASHRAE Members  
Terry Townsend and  
Gian Modgil  
participated as Jury in  
World Bank's  
Sustainable Cooling  
Innovation  
Competition*

Thank you





# In Honor of David Andrew Palty (Dave)

December 6, 1958 – September 1, 2019



*Anyone who knew Dave knew that his passion for life was infectious and it permeated through everything he was involved with, be that work, family, ASHRAE, etc. Dave was truly one of the good guys and his ASHRAE FAMILY will miss him.*



# The Dave Palty Outstanding GAC Service Award

The Dave Palty Outstanding GAC Service Award is an informal committee award that is given each year to recognize outstanding overall effort on the GAC committee.

The individual will be recognized at the GAC committee meeting at the ASHRAE annual meeting and will receive a certificate recognizing their outstanding efforts over the course of the year to promote and advocate on behalf of ASHRAE.





# ASHRAE Leadership Presentation

Dunstan L. Macauley

June 16, 2021

ASHRAE 2021 Annual Conference (Virtual)

*-Government Activities Committee*



## Code of Ethics

“We will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment, integrity, collaboration, volunteerism and diversity, and we shall avoid all real or perceived conflicts of interest.”

## Sexual Harassment

ASHRAE is committed to educating members to eliminate all instances of sexual harassment. The Society will deploy an online training program for volunteers to help educate and protect all members, and to sustain the professional environment members deserve and expect. This training will be required prior to serving on certain standing committees and/or in leadership positions.

[ashrae.org/about/governance/ashrae-discrimination-and-harassment-policy](https://ashrae.org/about/governance/ashrae-discrimination-and-harassment-policy)

## Commercialism

**ASHRAE's Commercialism Policy** allows for Society activities that fulfill the mission of technological advancement with adherence to business plans that generate income to offset operational expenses such as AHR Exposition, ASHRAE periodicals, website, and Society conference events such as the Welcome Party, luncheons, registration kits, and receptions.

[ashrae.org/commercialism](https://ashrae.org/commercialism)

View ASHRAE Governing Documents at [ashrae.org/about/governance](https://ashrae.org/about/governance)



# Memoranda of Understanding (MOUs)



Chartered Institution of  
Building Services  
Engineers (CIBSE)  
December 2020



U.S. Department of Homeland  
Security Science and  
Technology Directorate  
February 2021



Kuwait Foundation for  
the Advancement of  
Sciences (KFAS)  
November 2020



National Air Filtration  
Association  
March 2021



Federation of  
European Heating,  
Ventilation and Air  
Conditioning  
Associations  
May 2020



National Association of  
State Energy Officials  
(NASEO)  
November 2020



United Nations  
Environment Programme  
April 2021

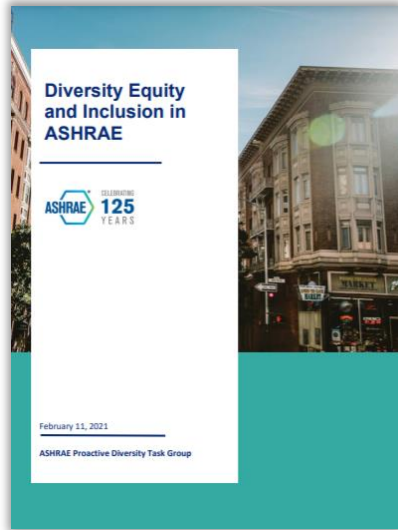


International Ultraviolet  
Association  
May 2021

Learn more at [ashrae.org/mous](https://www.ashrae.org/mous)

# Diversity, Equity, & Inclusion (DEI) in ASHRAE

*BOD Subcommittee created by the Board January 2021*



## Purpose of the BOD DEI Subcommittee:

**To advise and engage the Board of Directors on:**

- All matters relating to diversity, equity and inclusion - with a view to improving organizational awareness and performance in these areas amongst both staff and the Society membership
- The establishment of annual budgets for DEI program and ongoing initiatives
- The prioritization of inclusivity issues which have relevance to ASHRAE, together with plans for addressing these issues

**Download the Report**

**[ashrae.org/DiversityEquityInclusion](https://ashrae.org/DiversityEquityInclusion)**

**The BOD DEI Subcommittee was recently approved as a new subcommittee to the Board.**

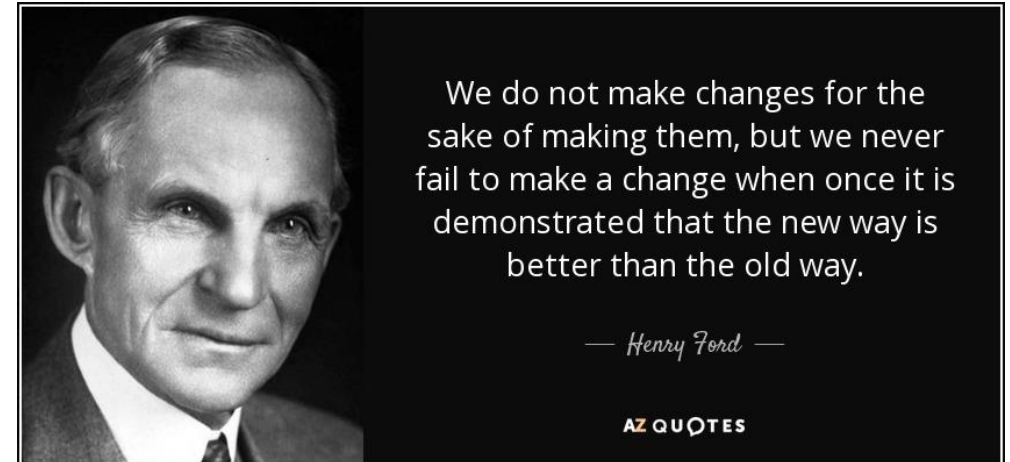
## Members of the BOD DEI Subcommittee

Andres Sepulveda (Chair); Adrienne Thomle (Vice Chair); Devin Abellon; Robin Bryant; Art Giesler; Eileen Jensen; Kishor Khankari; Tanisha Meyers-Lisle; Dunstan Macauley; Richie Mittal; Farooq Mehboob (Consultant); Steven Sill



## Goals of Transformation

- Free the BOD and ExCom for strategic activities
- Remove waste/operating cost
- De-silo ASHRAE and speed decision making
- Push decision-making lower in the organization
- Be market focused
- Expand and amplify our relevance



# Task Force for Building Decarbonization & Vision 2030



## Goal of TFBD

To develop technical resources and provide leadership and guidance in mitigating the negative carbon impact of buildings on the environment and the inhabitants of our planet.

Don Colliver, co-chair	Tom Phoenix, co-chair
Don Brandt	Bing Liu
Luke Leung	Tim McGinn
Dru Crawley	Bill McQuade
Francesca d'Ambrosio	Dan Nall
Lance Davis	Kent Peterson
Katherine Hammack	Terry Townsend
Ginger Scoggins	

**More information coming soon**

## Goal of Vision 2030

To lead, serve, and provide all professionals in the buildings industry with the resources and knowledge to continually drive the innovative and strategic improvements needed during the revolution of the built environment.

Sheila Hayter, chair	Tom Phoenix, vice chair
Bruce Branscum	Tim McGinn
Robin Bryant	Francis Mills
Jayson Bursill	Dan Nall
Michael Cooper	Lan Chi Nguyen Weekes
Dru Crawley	Joe Norowratzky
Chris Gray	Drew Perrin
William MacGowan	Chandra Sekhar
Manish Sharma	Jiri Skopek

# Nominations Needed!



## Committee Nominations

- Due mid-February. Council, RAC, TAC, Standards and Handbook nominations are due mid-September.
- Speak with your committee ExO if your current appointment ends in June and you wish to be nominated for another committee.

 [ashrae.org/committee-nominations](https://ashrae.org/committee-nominations)

## Honors & Awards Nominations

ASHRAE's awards fall into one of six categories:

- Personal Honors
- Personal Awards for General & Specific Society Activities
- Paper Awards
- Society Awards to Groups or Chapters
- Chapter and Regional Awards

[ashrae.org/honorsandawards](https://ashrae.org/honorsandawards) 

Learn about ASHRAE Technical Committees (TCs) at [ashrae.org/communities](https://ashrae.org/communities) 



# Membership & Communities



→ Your Benefits [ashrae.org/membership](https://www.ashrae.org/membership)

## New Member Benefit Selection Society Year 2021-22



Full Dues paying Members and Associate Members will be able to select from the following complimentary annual member benefits starting SY 2021-22:

- ✓ ASHRAE eLearning Course
- ✓ ASHRAE Standard (PDF)
- ✓ ASHRAE Handbook (PDF)

Members can add a Handbook Online subscription or printed copy of the Handbook for an additional fee.



**50,000+** Society Members including **5200+** Student Members



**15** Regions with **198** Chapters and **400+** Active Student Branches



## Connect-A-Colleague

Quickly invite peers to join ASHRAE and participate in committees using a pre-written email invitation at [ashrae.org/connect](https://www.ashrae.org/connect)

Your Community [ashrae.org/communities](https://www.ashrae.org/communities) ←



# 2022 ASHRAE Winter Conference & AHR Expo



We're looking forward to reconvening in-person!



**2022 ASHRAE Winter Conference**  
**January 29–February 2, 2022 | Las Vegas,**  
**Nevada**

**AHR Expo**  
**Jan. 31–Feb. 2, 2022 | Las Vegas**  
**Convention Center**

Registration opens in late April  
[ashrae.org/2022Winter](https://www.ashrae.org/2022Winter)





# Informational Items



# Financial Impact of COVID-19



- The pandemic economy and loss of the AHR Expo income has strained ASHRAE's budget significantly.
- Membership levels have been impacted but are down less than predicted at the start of SY 2020-21.
- **ASHRAE secured two Payroll Protection Program loans** to help offset some of the losses from operational income. We have received loan forgiveness for the 1<sup>st</sup> loan.
- Staff expenses have been reduced, including the downsizing staff from 120 to 110 FTE.
- Volunteer and staff travel expenses have been reduced significantly, reflecting pandemic travel restrictions.

## Member Assistance

Due to the financial impact of the COVID-19 pandemic members have experienced, ASHRAE is **not increasing member dues** for the 2020-2021 Society Year.

### **MCO 3.15 Hardship Cases and Natural Disaster Relief Action. 3.15.1 Hardship Cases**

Members Council is responsible for determining what constitutes a hardship case and providing guidance to staff for determination of special consideration with respect to dues and other member benefits. Issues not covered by this guidance shall be ruled on by the chair of Members Council in consultation with staff. For more information, contact [membership@ashrae.org](mailto:membership@ashrae.org).

Proposed Bylaws change, to be voted on Spring 2021:  
Change title of 'Member' grade to "Full Member"

## ASHRAE Bylaws

Section 2.1 Grades of Membership.  
These shall be designated as follows:

- (A) Honorary Member,
- (B) Presidential Members,
- (C) Fellow,
- (D) Life Member,
- (E) Life Associate Member,
- (F) Full Member,
- (G) Associate Member,
- (H) Affiliate Member, and
- (I) Student Member.


'Member' grade refers to individuals who have provided necessary education and professional background information to the Society in order to advance from Associate to Member grade.

This proposed Bylaws change would update the title of 'Member' to '**Full Member**'.

[ashrae.org/about/governance](https://www.ashrae.org/about/governance)

## Research Promotion (RP)

The Research Promotion campaign supports ASHRAE Research, Education, YEA programs, Scholarships, Endowed Funds, and the RP General Fund.

 **Thank You** to all the **donors and volunteers** for your support during this challenging year.

**Society Year 2019-2020** total raised: **\$2,117,677**

- **\$1,635,596** in contributions for Research
- **\$277,720** for ASHRAE Foundation
- **\$170,596** for Scholarships
- **\$33,765** for General Fund, YEA, and Education

## ASHRAE Foundation Grants & Scholarships

The ASHRAE Foundation is an endowed trust that provides funding for professional development and research programs, supplies qualified engineering students with much needed scholarship assistance, and provides grants to help support the Society's vital work.

**SY 2021-22**

**33**

**Society Scholarships totaling \$152,000**

**24**

**Chapter-Awarded Scholarships totaling \$52,000**

**Donate, Volunteer, Apply, and Learn More at**  
**[ashrae.org/support](https://ashrae.org/support)**



# New Global Headquarters



 **180 Technology Parkway NW  
Peachtree Corners, GA 30092**




ASHRAE has officially moved into a renovated 66,700 ft<sup>2</sup> building, originally built in 1978.



Over \$10.2M in monetary and in-kind support was received from generous stakeholders to support this renovation project.



*PV system design is underway with installation to be completed this spring to drive NZE performance*

See the video tour, photos, building technical features and our generous sponsors at [ashrae.org/newhq](https://www.ashrae.org/newhq) 




# Epidemic Task Force (ETF)

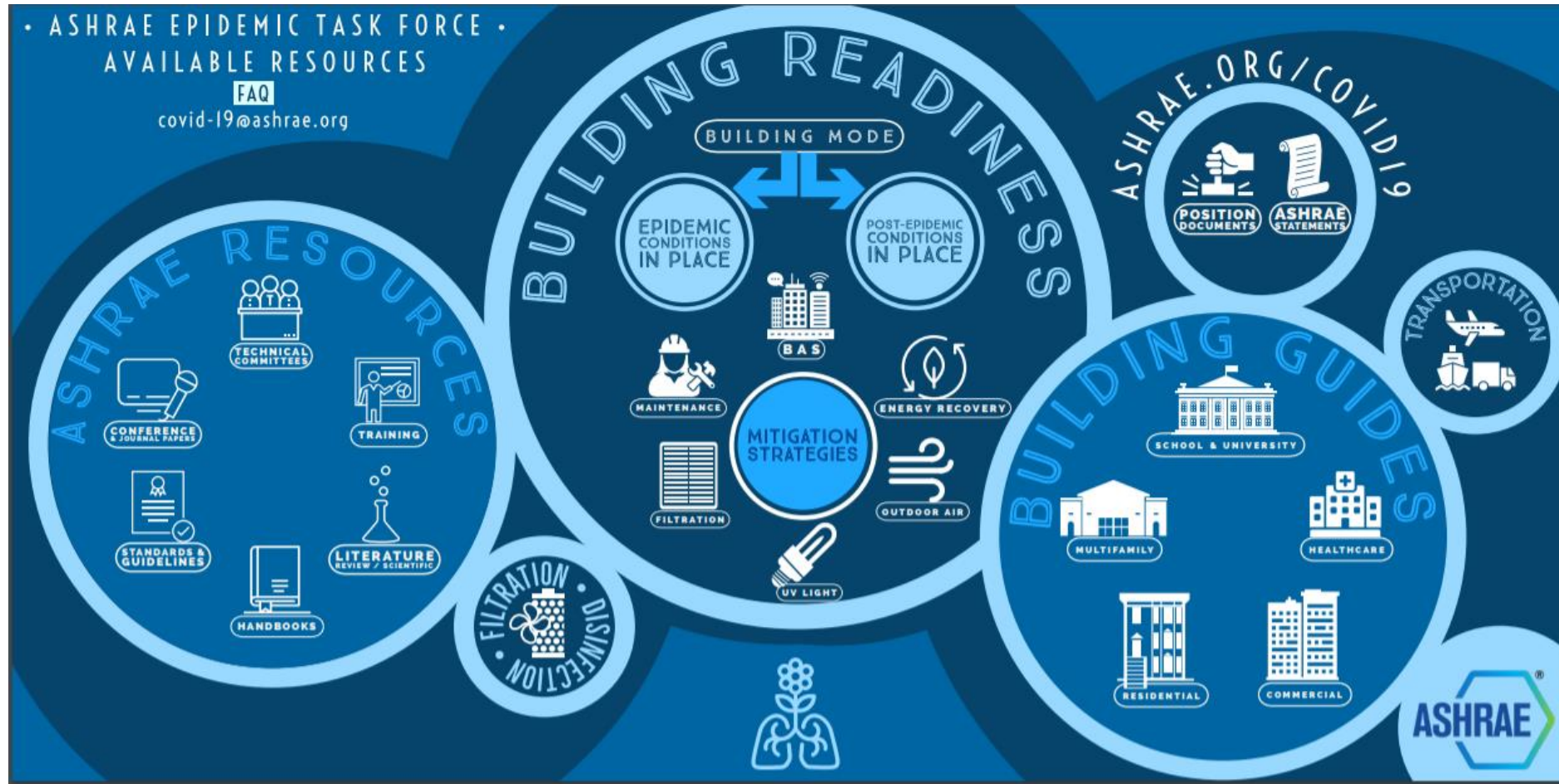


Continues to provide COVID-19 related resources, making ASHRAE a trusted source of critical guidance during the pandemic.

[ashrae.org/covid19](https://www.ashrae.org/covid19) averages more than 40,000 views per month!

 Clickable infograph for easy navigation, FAQ's and free resources

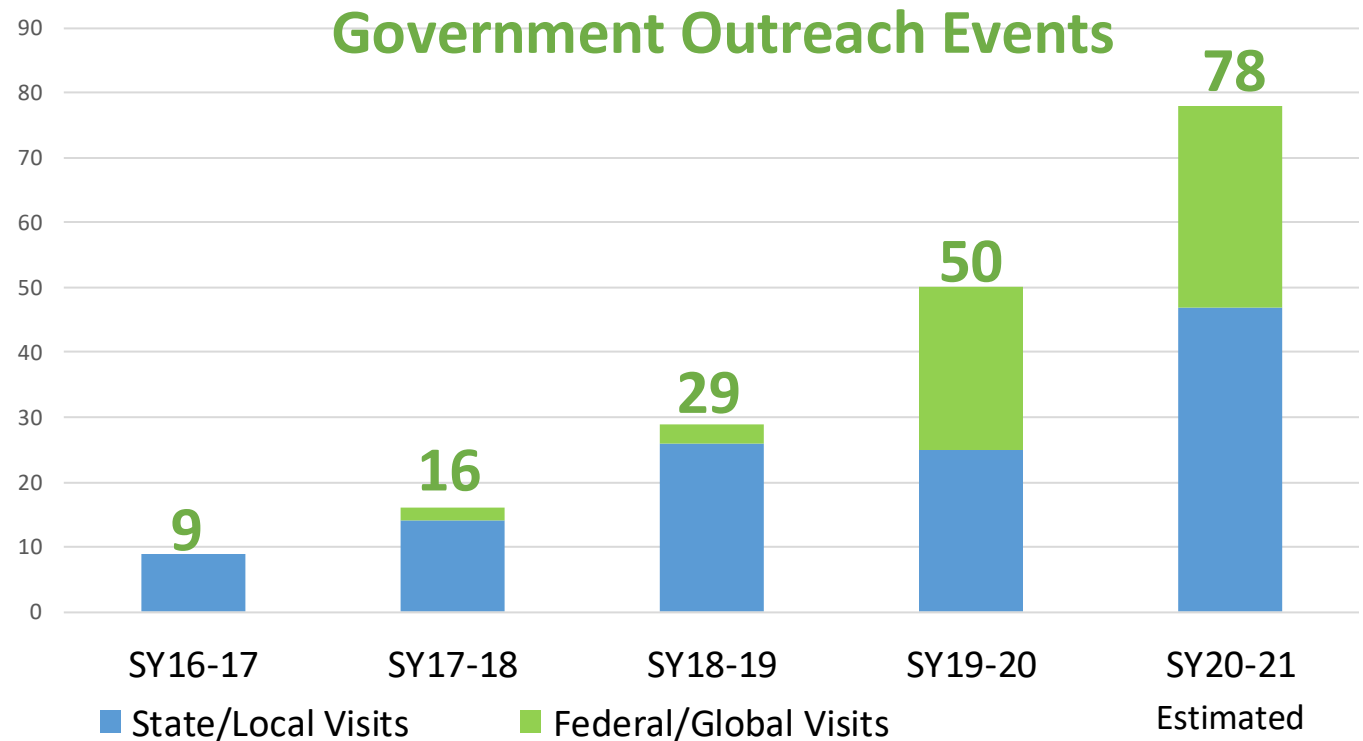
[ashrae.org/covid19](https://www.ashrae.org/covid19)





ASHRAE **Government Affairs** program works to establish ASHRAE as a leading source of trusted expertise for policy-makers in the development of legislation and regulations affecting the public and HVAC&R industry.

- **Government Affairs Update** bi-weekly newsletter provides updates on government activities. Subscribe online or by emailing [GovAffairs@ashrae.org](mailto:GovAffairs@ashrae.org).
- **Government Outreach Events** connecting ASHRAE volunteers with policy makers.
- Briefings & Testimony, Regulatory Meetings, Hearings, and Comments. **Letters** related to public policy priorities.



Get Involved + Get Resources  
[ashrae.org/government-affairs](https://www.ashrae.org/government-affairs)

# ASHRAE Conferences and Events



SEP  
2021

## AHR Mexico

Sept 21 – 23, 2021 | Monterrey, N.L. Mexico

NOV  
2021

## 2021 ASHRAE Building Performance Analysis Conference

Nov 10 – 12, 2021 | Denver, CO

SPRING  
2022

## IAQ 2020: Indoor Environmental Quality Performance Approaches

Spring 2022 | Athens, Greece

JUN  
2022

## Ventilation 2022: 13<sup>th</sup> International Industrial Ventilation Conference For Contaminant Control

Jun 22 – 24, 2022 | Toronto, Canada



[ashrae.org/conferences](https://www.ashrae.org/conferences)



# Professional Development



## eLearning

Convenient, on-demand courses for individuals or groups.

**90+** online courses starting at **\$42** for members.

### Group Rates Available

Updated Course Catalog:  
[elearningcatalog.ashrae.org](http://elearningcatalog.ashrae.org)



## ASHRAE Learning Institute (ALI)

Instructor-led courses in a variety of formats.

### New Virtual HVAC Design Courses

Live, Instructor-led

- Level I – Essentials
- Level II – Applications

### New 2021 Instructor-led Online Series

[ashrae.org/onlinecourses](http://ashrae.org/onlinecourses)

**Courses Available for ASHRAE Chapter, and In-Company Presentations.**

## Certification

Validate and promote your expertise via online examination and digital badging.

### Building Design

- Energy Modeling (BEMP)
- Healthcare Facility Design (HFDP)
- High-Performance Building Design (HBDP)
- HVAC Design (CHD)

### Building Performance

- Commissioning (BCxP)
- Energy Assessment (BEAP)

### Building Operations

- Operations & Performance Maintenance (OPMP)

[ashrae.org/professional-development](http://ashrae.org/professional-development)



# Publications and Standards



Recently published items available at [ashrae.org/bookstore](http://ashrae.org/bookstore)



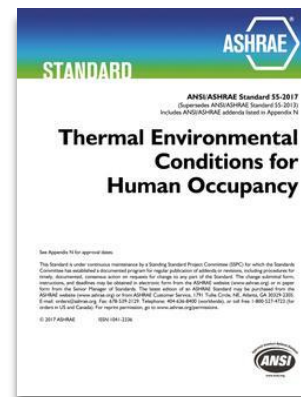
**Standard 135-2020**  
BACnet  
A Data Communication  
Protocol for Building  
Automation and Control  
Networks



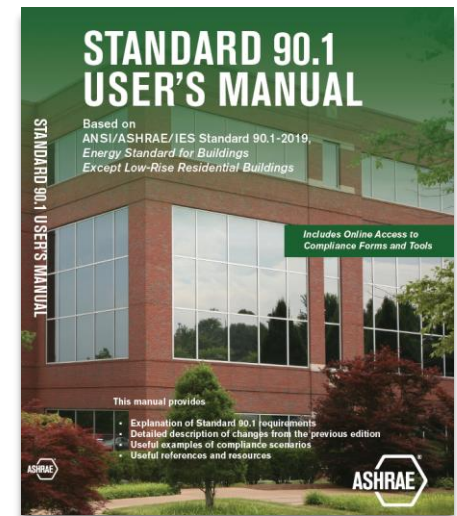
**Standard 170-2021**  
Ventilation of Health  
Care Facilities



**Guideline 41-2020**  
Design, Installation and  
Commissioning of Variable  
Refrigerant Flow (VRF)  
Systems



**Standard 55-2020**  
Thermal Environmental  
Conditions for Human  
Occupancy



**Standard 90.1  
User's Manual**  
(based on  
ANSI/ASHRAE/IES  
Standard 90.1-2019)

## ASHRAE Technology Portal

Provides a one-stop location for ASHRAE papers, articles, reports, Handbook PDFs, and seminar recordings.

## Online Standards Database

Allows access to public review drafts for standards, guidelines, and addenda to submit comments, to do online balloting, and to submit proposals to standards and guidelines.

## Zero Energy Advanced Energy Design Guides (AEDG)

Are available for free download: offices and K-12 schools.  
**Multifamily AEDG available early 2021.**

## Science and Technology for the Built Environment

Provides free online access to archival research publication offering comprehensive reporting of original research.

## ASHRAE Technical Apps

Deliver mobile design, calculation, and analysis tools to the palm of your hand.

## Free Technical Resources

Offer downloads of a variety of well-known resources to everyone.

## ASHRAE 365

Updates on all things ASHRAE, for free and year-round.

Find these resources and many more at [ashrae.org](https://www.ashrae.org)



**Communications Coordinator Report  
to the Government Affairs Committee  
June 14, 2021**

**Contents:**

- Recap of GAC Spring Meeting
- Recap of GAC Winter Meeting

**Recap of GAC Virtual Spring Meeting**

The Government Affairs Committee (GAC) met virtually on March 17<sup>th</sup>, 2021.

The approved minutes of the meeting including attachments can be found on the GAC Basecamp Docs & Files/Full Committee and Annual & Winter Meetings

**UPDATE ON ACTION ITEMS**

**Ms. Alice Yates** reported that all action items are completed with exception of #5, which is ongoing (see Attachment).

**REPORT FROM THE EPIDEMIC TASK FORCE (ETF)**

**Mr. Terry Townsend** provided a report on the work of the ETF, and asked for continuing input from the GAC, including specifics on what is still needed from the government and policy makers. Ms. Yates noted that the ETF website is continually being updated and to let her know if you have any questions with navigating the website or finding specific information.

**REPORT FROM THE TASK FORCE FOR BUILDING DECARBONIZATION (TFBD)**

Mr. Townsend reported on the work of the TFBD. He also explained that the next steps for the PPIB on Building Decarbonization are for Tech Council and then ExCom to consider and indicated that approval may come by the end of March.

The TFBD has established 12 Working Groups (WG) focused on “Key Areas of Concern.” The WGs are defining their roles, objectives, deliverables, and timeline. The WG Leads are in the process of identifying members for their groups; if you have any recommendations to participate on the WGs, send them to Terry. Alice will distribute the WG list to the GAC members.

Mr. Townsend also noted that the TFBD meetings will have an “open mic” session monthly, if you want to share anything with the task force.

**SUBCOMMITTEE REPORTS AND MBO STATUS**

A summary of the status of each of the MBOs is found as an Attachment to the minutes.

**Executive Subcommittee**

MBO #1 – Mr. Chad Smith reported that the goal is to finalize the vision statement, goals, and objectives by the annual meeting.

MBO #2 – In Mr. Ashby’s absence, Mr. Reyes noted that the work is evolving and will have a more detailed report at the annual meeting.

MBO #4 – Mr. Jones reported that the work has been challenging, and if you know of any good contacts with code officials, to send them to him. Mr. Jones will be meeting with the ICC’s Mr. Guy Tomberlin today.

### **Policy and Programs Subcommittee**

The PPSC written report is in the Attachment.

### **Member Mobilization Subcommittee**

**Ms. Andrea Phillips** reported on the status of Government Outreach Events, a summary of which is provided in the Attachment. Ms. Phillips reminded the RVCs that they should contact their Chapter Chairs and ask them to fill out the reporting form for each event. She noted the virtual events have been a “mixed bag,” with some going on very well, some not at all. It is the busy time of year for those in the states, hopefully more city, local and state events will be planned

MBO #3 – MMSC is working on several ideas, including an “office hours,” which is anticipated to be held every two months for 30-60 minutes that will be open to anyone in ASHRAE who interested in government affairs. They are also considering adding a training seminar to the annual meeting for anyone who is interested in government affairs. The status is about 60% complete.

MBO#7 – This MBO is completed. Emily has identified 2 reports from Fiscal Note that have been used effectively by the GAC. There has been a good reception for these tools for planning outreach events.

### **Global Affairs Subcommittee**

The Global Affairs Subcommittee has held 3 meetings in September, November and January.

MBO #5 - Already obtained information from training center on government officials and continuing our contacts to provide to RVC’s. Still working on updating the list of international organizations.

MBO #8 - Collected information from RVCs and trying to organize and make summaries and put on webpage – still working to collect more information from different countries.

### **Rules Subcommittee**

**Mr. Chad Smith** reported that there are no motions at this time from the Rules Subcommittee. The next steps for this subcommittee will be to review the Rules of the Board and the Resource Manual.

### **Nominating Committee**

**Ms. Sheila Hayter** reported the subcommittee has completed its duties for the society year.



#### GAC OUTSTANDING ACHIEVEMENT AWARD NAMED AFTER DAVE PALTY

Mr. Smith explained that he, Terry and other GAC members want to honor Dave Palty and remember his amazing work in ASHRAE government outreach. Dave was a member of the GAC and RVC for Region X, who unexpectedly passed away a year ago. This group believes that the best way to honor Dave would be to offer an award from the GAC itself, which would be an informal award that is given each year by the GAC to recognize outstanding overall effort on the GAC committee. It is envisioned the award would be judged by a 3-person committee made up of the Chair, Vice Chair and GAC staff director. The individual would be recognized at the GAC committee meeting during the Annual Meeting and will receive a certificate recognizing their outstanding efforts over the course of the year to promote and advocate on behalf of ASHRAE.

#### PLANNING FOR SY2021-22

Mr. Smith reported that as has been done in past years, an evaluation of the GAC's work over the past year will be conducted; surveys will be sent out in the next week or so, and **Mr. Jeremy Pollack** is coordinating those surveys.

The evaluation is an effort to try to improve the work of the committee for the upcoming year, and it will serve as significant input to the Planning Meeting of the GAC Executive Subcommittee, which is expected to take place in late April or early May.

#### REPORTS FROM REGIONAL VICE CHAIRS

The RVCs gave their Regional Reports. These reports can be found in the attachments to the approved minutes on the GAC Basecamp under Docs & Files/Full Committee and Annual & Winter Meetings.

#### COUNSEL REPRESENTATIVE REPORTS

**Technology Council Representative - Mr. Steve Emmerich's** report can be found in the Attachment.

**Members Council Representative - Ms. Eileen Jensen** reported that the Manual Subcommittee of the Regions Operations Subcommittee to Members Council met March 10th to review proposed changes to the Manual of Chapter Operations (MCO). The proposed changes from the GAC to address competing chapter and Society applications for government funding opportunities, were reviewed and accepted as proposed. The next step is for these changes to be reviewed and voted on by the full Regions Operations subcommittee at their next meeting, which is expected to take place sometime in May or June. She also reminded the GAC that any possible ROB changes that might come out of the GAC would need to be presented to Members Council.

**Pub-Ed Council Representative Mr. Larry Fisher's** report can be found in the Attachment.

#### NEW BUSINESS

**NEBB Collaboration:** Mr. Townsend wanted the GAC members to know that he is the ASHRAE liaison with NEBB and has been involved with NEBB for 17 years. If you want information about their standards or other information, please reach out to Terry.

**Michigan Grassroots Report: Ms. Sonya Pouncy** provided a wonderful presentation about her work in getting information out from the ETF. The presentation was provided on Basecamp and is also provided as an Attachment. Thank you, Sonya!

**AASA MOU:** Ms. Hayter, **Ms. Nanette Lockwood**, and **Ms. Meghan McNulty** believe that a stronger relationship with the School Superintendents Association would be beneficial to help share ETF guidance on schools and other ASHRAE technical materials. An MOU with the AASA may be the best way forward in forming this relationship. (Motion with background and fiscal impacts is provided as an attachment.)

A motion that the GAC recommends that ASHRAE leadership enter into a Memorandum of Understanding (MOU) with AASA, The School Superintendents Association passed.

\* \* \*

### **Recap of GAC Virtual Winter Meeting**

The Government Affairs Committee (GAC) met virtually on January 27<sup>th</sup>, 2021.

The approved minutes of the meeting including attachments can be found on the GAC Basecamp Docs & Files/Full Committee and Annual & Winter Meetings

### **REPORT FROM ASHRAE GOVERNMENT AFFAIRS OFFICE**

**Ms. Alice Yates** from the Government Affairs Office reviewed a report of activity including an overall Global Outlook addressing Climate Change and Covid-19, the new US Administration – implications for ASHRAE, U.S. Congressional Outlook, and State & Local Outreach targets.

### **REPORT FROM THE EPIDEMIC TASK FORCE (ETF)**

**Mr. Terry Townsend** shared highlights from the ETF, of which he is a member, including the significant outreach to government entities that has taken place due to the ETF guidance and incorporated into various government policies, regulations and statues. The full report is included in an attachment to the approved minutes.

### **STATUS OF DECARBONIZATION INITIATIVE**

**Mr. Townsend** reported that ExCom and the ASHRAE President have been engaged on the building decarbonization issues, and an announcement should be coming out soon concerning this Presidential initiative.

### **SUBCOMMITTEE REPORTS AND MBO STATUS**

#### **Executive Subcommittee**

**Mr. Townsend** asked the MBO implementation leads to report on the status of the MBOs

assigned to the subcommittee. Those summaries are included in the MBO Status Table Attachment.

### **Members Council PAOE Subcommittee Report**

**Mr. Chad Smith**, a member of the Members Council PAOE Subcommittee, reported that this subcommittee is considering some changes to the PAOEs, including giving more points for meetings with more senior staff or elected officials.

### **Policy and Programs Subcommittee**

**Mr. Rob Hoadley** reported that this subcommittee has been continually active and have held several meetings over the first half of this society year.

#### **Public Policy Issue Briefs (PPIB)**

The subcommittee focused on updating and revising the PPIBs. Mr. Hoadley asked that the PPIB on Utilizing Energy Metrics and Building Benchmarks be removed from consideration at this meeting. Mr. Hoadley also asked for any PPIBs approved at this Winter meeting to not go directly to DRSC and Technology Council because they want to hold off on approval so that the expiration date is extended.

The following motions passed:

- Approval of the following PPIBs: Resiliency in the Built Environment, Climate Change and the Built Environment, and Environmental Tobacco Smoke
- That the GAC recommend to Technology Council to develop a Position Document on Decarbonization.
- That GAC recommend to Technology Council that the ASHRAE Position Document on Environmental Tobacco Smoke shall be amended and expanded with regards to cannabis smoke and electronic nicotine delivery.
- That the GAC recommend to Technology Council that the ASHRAE Position Document on Indoor Air Quality shall be amended to make further reference to natural ventilation systems in emerging economies, and ASHRAE shall provide further guidance and design guides specific to natural and traditional ventilation systems.

Mr. Hoadley also reviewed the status of the two MBOs assigned to this subcommittee. Those updates are provided in the Attachment.

### **Member Mobilization Subcommittee**

**Ms. Andrea Phillips** reported that a total of 21 events have taken place. While it appears that the gap is significant with a goal of holding 78 such events, Ms. Phillips reminded the members that some events have taken place, but have not been recorded, and the spring is typically the time when more events are held. She also reminded the members to make sure the outreach events form is completed and submitted to staff.

Ms. Phillips also reported on the status of the two MBOs assigned to this subcommittee; those reports are provided in the MBO Table Attachment.

### **Global Affairs Subcommittee**

**Mr. Sam Hui** reported that the Global Affairs Subcommittee has focused on making progress with respect to the two MBOs to which this subcommittee was assigned; status reports for these MBOs are provided in the MBO Table Attachment.

### **Rules Subcommittee**

**Mr. Smith** reported that the subcommittee focused on reviewing the Manual of Procedures (MOP) and in the next half of the Society Year the subcommittee will focus on the Resource Manual and the Rules of the Board. The subcommittee's review of the MOP resulted in several recommended changes shown in the Attachment. Mr. Smith reported that most of these changes are "housekeeping items," to reflect what is taking place in the committee. Mr. Smith also highlighted a change in the nominations process, and some changes in assigned tasks to the chair and vice chair of the committee with the goal of making the committee operate more efficiently and effectively.

A motion that the GAC recommend to Members Council to approve updates to the GAC Manual of Procedures passed.

### **Nominating Subcommittee**

**Ms. Sheila Hayter** reported that the subcommittee has considered all positions for the 2020-2021 year, and those recommended for leadership will be contacted to ask whether they are willing to serve. She is pleased that the subcommittee has come up with great recommendations and the recommendations will be completed by 2 weeks after the Winter Meeting ends.

### **Mentor Program and Training**

**Mr. Smith** reported that the GAC has held three training sessions for RVCs, which is different from last year, with a greater number of training sessions of shorter duration, as well as training provided for the Members at Large and the Council Representatives. The sessions were reshaped to be less formal with more interaction among committee members.

The mentorship program continued to be successful. Because small groups perform better than one-on-one mentorship, the program will be further developed in the next year with an emphasis on small groups. Mr. Smith highlighted the very successful model of Sheila Hayter, who was paired with Meghan McNulty and Nanette Lockwood. Thank you, Sheila!

### **REPORTS FROM REGIONAL VICE CHAIRS**

The RVCs gave their Regional Reports. These reports can be found in the attachments to the approved minutes on the GAC Basecamp under Docs & Files/Full Committee and Annual & Winter Meetings.

#### EXO REPORT

**Mr. Dunstan Macauley** provided the ExO presentation.

#### COMMUNICATIONS COORDINATOR REPORT

**Mr. Roger Jones** provided a written report (see Attachment).

#### COUNSEL REPRESENTATIVE REPORTS

**Technology Council Representative - . Steve Emmerich** provided several updates from the Technology Council of relevance to the GAC. These are provided in the Attachment. In addition, Mr. Emmerich noted that the Refrigeration Committee is developing a vaccine transport white paper, that may be of interest to policy makers.

Decarbonization: Mr. Emmerich wanted the committee, as well as the Decarbonization group, to be aware that several activities are already underway by Society that should feed into the decarbonization initiative, including Standard 228P, which was recently revised to include a zero net carbon metric; the public review draft of 228P should be available this spring.

**Members Council Representative - Ms. Eileen Jensen's** report is available in the Attachment.

**Pub-Ed Council Representative - Mr. Larry Fisher's** report is available in the Attachment.

#### REPORTS FROM COMMITTEE LIAISONS

**Refrigeration Committee – Mr. Rajendran** reported that they are focused on partnering with other organizations focused on the coronavirus, as well as creating a working group to draft an MOU between ASHRAE and IIAR which is being finalized. The REF is being reorganized, and will have 7 subcommittees, which will open things up to more participation. The committee is also developing a vaccine transportation white paper. Mr. Rajendran will provide an update on the timeline to Ms. Yates, per a request from Rob Hoadley. Mr. Rajendran subsequently reported via email that the REF plans to have a first draft ready by March.

**Building EQ Committee – Mr. John Constantinide** provided a written report (see Attachment) and stated that the committee has prepared a standard operating procedure (SOP) document for working on government outreach and universities. Ms. Porcari noted that feedback was provided to the Building EQ Committee, and the SOP is posted online and on basecamp. Mr. Constantinide was asked if the Building EQ tool can provide a carbon metric, but he stated that it is not currently available and funding constraints will prevent this in the near term.

**Residential Building Committee – Ms. Lilas Pratt**, staff liaison to the RBC gave a short update including a Guideline concerning humidity for residential buildings, and the development of

“issue briefs” like those developed by the Environmental Health Committee. The first issue brief will be focused on wildfire smoke.

**YEA Committee – Ms. Madison Schultz** reported that there are no updates specific to the GAC. Their committee’s 3-day leadership weekend went well, and they have been conducting YEA webinars about every 6 weeks to help young members learn more about ASHRAE.

**Student Activities – Mr. Jared Larson** provided an update on the work of the Student Activities Committee: A Building EQ competition with students is in the works, and a design competition will be ready for next cycle.

**Environmental Health Committee – Ms. Meghan McNulty** reported with **Mr. Nick Clements** on activities of relevance to the GAC. There are four Position Documents (PD) under revision/creation: Infectious Aerosols, Limiting Mold and Dampness in Buildings, Filtration and Air Cleaning, and Indoor Carbon Dioxide. The EHC has developed several Emerging Issue Briefs, and they would welcome input from the GAC, regarding content and format.

#### GUEST REPORTS

**AIA – Mr. Karrer**, Senior Manager of Building Codes at AIA, reported that AIA has been actively involved with decarbonization and has provided several materials to Ms. Yates, which she has posted on Basecamp. The AIA developed its “National Policy Platform” with a strong climate plank immediately before the general elections, and it will hold a grassroots Hill Day in February. In 2020, the AIA also launched a campaign titled “Blueprint for Better” which is a call to action for architects, design professionals, civic leaders and the public to transform the built environment and achieve a “zero-carbon, equitable, resiliency and healthy built environment.”

**AHRI – Ms. Samantha Slater**, Senior Vice President for Government Affairs, spoke about their legislative priorities, including ratification of the White House Kigali Amendment, which was included in President Biden’s Executive Order that was issued January 27. AHRI also wants to include the use of VRF technology as part of the Defense Authorization bill, and support energy efficiency tax incentives as a part of a clean energy infrastructure bill likely to be taken up by Congress this spring or summer.

\* \* \*

## Report from Council Liaison

Technology Council – Steven Emmerich

1. Technology Council, most Standing Committees and all subcommittees reporting to Technology Council have yet to hold their Summer meetings.
2. Technology Council held a pre-Summer meeting on June 4<sup>th</sup> and approved
  - A minor change to the Purpose for the Infectious Aerosols Position Document.
  - The proposal for a Position Document on Building Decarbonization including appointing the chair and roster.
  - The roster for the Limiting Indoor Dampness and Mold Position Document.
3. The Residential Building Committee has completed a draft Residential Information Brief titled Wildfire Smoke Hazards for Dwelling Occupants and will consider approving it at their meeting.
5. Guideline Project Committee 44P has completed an interim document titled Planning Framework for Protecting Commercial Building Occupants from Smoke During Wildfire Events. It is available on the ASHRAE website at <https://tinyurl.com/yxyuqh72> and has been downloaded over 200 times. It will be the subject of a U.S. Environmental Protection Agency webinar on June 23<sup>rd</sup> and is already being used by multiple federal and state agencies and private organizations.



**GOVERNMENT AFFAIRS COMMITTEE**  
**Main Meeting**  
**June 16th, 2021**  
**8 - Noon EST Report from PEC Council Liaison**

**Publishing and Education Council – Larry Fisher**

First let me say I've enjoyed working with GAC members and staff. I appreciate the leadership from Alice and her crew and the different committee chairs over the past 3 years.

PEC continues to support GAC especially with the Global Affairs Sub committee and support efforts from the ASHRAE Global Training Center in Dubai. The following are highlights over the past year or work done in PEC that supports GAC.

1. GTC (Global Training Center) Update – Briefly, GTC is making ends meet with its conversion from in-person to virtual meetings. Although fees had to be reduced, and programs had to be converted to virtual, programs for the year did well.

GTC has been sending names of training attendees to ASHRAE staff for determining if government employees are attending so GAC can reach out to them and invite them to share their needs or to join ASHRAE.

GTC has added to their end of course survey questions related to Guidelines and Standards used Globally to support MBO #8 - Identify in which countries outside the U.S. ASHRAE Standards have been adopted or used as guidance; document 2-3 examples of how ASHRAE standards have been used globally and what types of advocacy were used which could help with such efforts in other locations.

The Saudi Standards, Metrology and Quality Organization (SASO). GTC/ASHRAE has an existing MOU with SASO but was not very active. GTC had a meeting with them earlier this year and they expressed wanting to strengthen cooperation through standards adoption, training etc. hopefully we'll see (GTC) something materialize during the next year that will assist GAC in Global Affairs.

2. Both volunteers and staff have been active in partnering with Michigan State University and The Ohio State University in response to a funding opportunity with US DOE for workforce training.
3. Per ASHRAE's recent MOU and umbrella agreement with the New York State Energy Research and Development Authority (NYSERDA), webinars and courses on content developed by ASHRAE's Epidemic Task Force (ETF) have been presented to NYSERDA audiences, with more planned and new proposals in the works on those and other topics. Alice Yates, staff Director of Government Affairs and liaison to GAC, can also speak to some of these efforts with which she has been heavily involved.
4. ASHRAE is also a participant in DOE's Better Buildings Workforce Accelerator program, which is designed to increase the quantity, quality, diversity, and productivity of today's building energy efficiency workforce. This three-year effort will support the vision of the U.S. building workforce as a global leader in delivering quality efficiency products and services to American residents and businesses, thereby increasing energy affordability across the economy. Over the next three years ASHRAE will provide five (5) in-person and/or online training events on designing, constructing, maintaining and operating high-performance buildings. The training will be based on ASHRAE's *High-Performance Buildings Simplified* textbook and other educational resources. Training will be made available at reduced cost to participants identified as underrepresented or occupying roles with skill gaps. The pricing level will be determined depending on sponsorships or subsidies available.
5. Training activities have also been conducted for the Naval Facilities Engineering Systems Command (NAVFAC), with whom we have a long record of cooperation, and recently with the South Carolina Energy Office.
6. Professional Development staff are also in communication with Region XIV regarding HVAC Design Trainings and other courses tailored to and timed for the region.

Again, thanks for the education of how important this committee is to ASHRAE to support its' global goals.

End of Report

**Report from Building EQ Committee  
to Government Affairs Committee  
Virtual Annual Meeting – June 2021**

1. A government organization has agreed to use Building EQ for ASHRAE Level 1 audits (as per Standard 211) to comply with the Energy Independence and Security Act (EISA) for roughly 1 million square feet of interior building space starting in summer 2021 with reporting to Congress in Fall-Winter 2021. These roughly 14 projects are expected to include the purchase of reports from the Portal.
2. Green Building Initiative (GBI) reached out to the Building EQ Committee about including Building EQ in their upcoming Green Globes new construction and existing buildings requirements. Proposals for Building EQ compliance pathways in several Green Globes versions have been submitted for their review. GBI also met with the ASHRAE Colombia chapter to discuss the use of Green Globes internationally. An update of the ASHRAE-GBI MOU has been initiated as a result of these meetings.
3. The Building EQ Committee is working with NYSERDA on the inclusion of Building EQ as a tool for the Flexible Technician (FlexTech) program. The FlexTech program is a cost sharing program that provides a 50% cost share for a Level 1 plus audit (up to \$10,000). The committee has been invited to demonstrate how Building EQ works for the FlexTech consultants at their next scheduled meeting in September 2021.
4. The Florida Institute of Technology (FIT) continues to use the Building EQ Portal in their curriculum that engages students in hands-on learning in the assessment of Building Energy Performance. Building EQ university engagement continues to expand with the initiation of a pilot program at Humber College in Toronto to assess community housing.
5. Building EQ resources developed specifically for interaction with government jurisdictions will be incorporated into the new GAC resource portfolio for chapters once they are completed. These resources include a standard operating procedure (SOP), handouts, and guidance documents on Building EQ.
6. Other initiatives and activities by the committee include:
  - A Journal article has been submitted for publication as a follow up to the Orlando Seminar 42 on Building EQ at Universities and Public Schools.
  - Talking points on the value of Building EQ have been developed that can be used for outreach by the grassroots committees in general and by the Building EQ Committee when approaching targeted organizations.
  - A Portal survey has been developed that will be sent out to all Portal users to solicit information on what the Portal is being used for and what features are valued with the goal of identifying additional revenue sources for the Portal
  - An application form for the newly created Energy Genius Award is being developed in

order to launch the award in SY21-22.

- Case studies on University use of the Portal are being created and will be posted on the Building EQ webpage and used as presentation handouts.
- The Building EQ Committee, ASHRAE members, and Distinguished Lecturers (DLs) continue to promote the Building EQ Portal through presentations and training sessions.



PROPOSED

## ASHRAE's Public Policy Priorities: SY 2021-2022

- Support Sustainable Building Practices to Mitigate Climate Change

Buildings and their heating, ventilation, air conditioning and refrigeration (HVAC&R) systems directly and indirectly contribute to GHG emissions. Buildings are responsible for more than 35% of global final energy use and nearly 40% of energy-related greenhouse gas emissions worldwide. ASHRAE supports energy efficient building design practices, including net zero energy buildings, and the use of sustainable technologies on a global basis to help reduce GHG emissions. In addition to government adoption of robust energy standards such as ASHRAE Standard 90.1-2019, 90.2-2018 and 90.4-2019 and the 2021 IgCC for new construction, ASHRAE supports policies and programs to improve the energy performance of existing buildings, including through adoption of ASHRAE Standard 100-2018 and building benchmarking and labeling requirements.

ASHRAE is advancing strategies to reduce carbon emissions (decarbonization) in the built environment and is committed to helping local, state, and federal government entities reach their climate goals. The targeted carbon emissions include not only those directly resulting from the operation of buildings, but also those embodied in the materials incorporated into buildings and those generated by the building construction process itself.

- Promote Healthy Buildings and Reduce Indoor Environmental Risks

Supporting the health and well-being of building occupants is the most important element of the indoor environment. The provision of acceptable indoor air quality is an essential building service, and should be achieved while also improving building energy efficiency, sustainability, and resiliency. ASHRAE Standards for Ventilation and Indoor Air Quality (62.1 for commercial buildings and 62.2 for residential) should be adopted in building codes and regulations.

Importantly, ASHRAE supports policies that minimize pathogen transmission through building systems, including HVAC and water systems. With the world still being challenged by the coronavirus pandemic, ASHRAE will continue to disseminate the extensive resources developed by its Epidemic Task Force, including guidance documents, webinars, and training sessions. ASHRAE is happy to provide technical expertise and serve as a resource for policymakers and elected officials to help fight this pandemic. ASHRAE recommends that policymakers cite ASHRAE standards and guidance in legislation and policies to reduce the risk of pathogen transmission in buildings including in school facilities.

- Ensure the Orderly and Safe Phasedown of High-GWP HFC Refrigerants

ASHRAE supports the global phasedown of the production and consumption of Hydrofluorocarbons (HFCs) refrigerants that have high-Global Warming Potential (GWP), including through legislation, regulations, and policy. Governments are mandating the near-term use of lower GWP refrigerants, which can have some flammability. ASHRAE Standard 15-2019, *Safety Standard for Refrigeration Systems*, and Standard 34-2019, *Designation and Classification of Refrigerants* should be adopted quickly to help ensure the safe use of these refrigerants. Additional ASHRAE resources include the [Update on New Refrigerants Designations and Safety Classifications factsheet](#), which was developed through a cooperative agreement with UNEP. ASHRAE is also working with UNEP to assist developing countries with the adoption of state-of-art technologies and deployment of lower-GWP refrigerants that will protect the food supply and medicines including vaccines, as well as provide increased comfort and productivity while meeting sustainability goals.



## ASHRAE's Public Policy Priorities: SY 2021-2022 (page 2)

- Advance Design and Construction of Resilient Buildings and Communities

Resiliency is an increasingly important societal, economic, and technical issue that will have major impact on how buildings are designed, renovated and operated. ASHRAE is committed to developing, publishing and maintaining a Resilient Building/Community Standard, accompanying Design Guide(s) and design tools, and educational programs.

As investments are made to improve infrastructure, buildings should be included, as they are vital for protecting the public when natural and human-induced events occur. A building's ability to recover and be available to occupants following such an event can have widespread economic and health implications. In particular, up-to-date building energy and indoor air quality (e.g., ventilation, filtration) standards are essential elements of providing resilient buildings. Unfortunately, most states have not adopted the most recent standards and codes that are based on the latest research and technological innovation, which could make building occupants more vulnerable to disasters. In addition, policies and regulations that require qualified HVACR engineering and technical professionals to be an integral part of building design, construction, and operation are encouraged as these can result in a more resilient and safe built environment.

- Support Adoption of the Latest Edition of ASHRAE's Energy Standards into Building Codes

Energy efficiency can be improved significantly through the adoption and effective implementation of the most recent version of Standard 90.1 Energy Standard for Buildings Except Low-Rise Residential Buildings, which has provided the minimum requirements for the energy-efficient design in the United States for over 40 years. Although its adoption in the U.S. by States is required by the Energy Conservation and Production Act (ECPA), most States are using dated versions of the standard, resulting in buildings with higher energy needs and costs. Residential buildings and data centers can also achieve improved performance, save energy costs, and reduce climate impacts when jurisdictions adopt ASHRAE Standard 90.2 (residential) and Standard 90.4 (data centers).

- Strengthen and Increase Diversity in the HVACR Workforce

Strong education in science, technology, engineering and mathematics (STEM) to develop the future supply of technicians, engineers and scientists is critical to our future well-being and standard of living. ASHRAE supports policies that strengthen STEM at all educational levels, including through use of ASHRAE's extensive educational offerings. Policy makers should also consider requiring quality certification programs including ASHRAE's which result in improved building performance.

ASHRAE's Board of Directors has committed to proactively pursuing and celebrating diverse and inclusive communities understanding that doing so fuels better, more creative and more thoughtful ideas, solutions and strategies for the Society and for the communities our Society serves. We respect and welcome all people regardless of age, gender, ethnicity, physical appearance, thought styles, religion, nationality, socio-economic status, belief systems, sexual orientation or education.

**GAC MBOs  
SY2021- 2022**

<b>MBO</b>	<b>Subcommittee Assigned</b>	<b>Metric</b>	<b>Initiative #</b>	<b>Goal #</b>
1. Develop a long-term strategic plan for the GAC that will maximize the impact of member engagement.	Executive Subcommittee	Plan is developed by June 30, 2022.	3, 4	1b; 2a; 2b; 3b
2. Increase the participation of ASHRAE members in Government Outreach Events and other advocacy opportunities by hosting promotional GAC meetings, webinars, and other events to non-GAC ASHRAE members to increase awareness about the GAC.	Member Mobilization	<p>Hold a session at the 2022 Winter Conference that targets ASHRAE members who are not on the GAC, that would provide basic information about the GAC and how to get involved.</p> <p>Host 2 “Office Hour” events.</p> <p>Create a DL presentation on the benefits of Government outreach for ASHRAE members.</p>	4	2a; 2b; 2c
3. Increase effectiveness of volunteer members through formalizing the GAC member mentorship program and the multi-module training system.	Member Mobilization	Mentorship program and training program are included in Resource Manual.	3, 4	2a; 2c; 3a; 3b
4. Build the foundation of a consistent global government engagement program by planning and identifying country- or region-specific events attended by government officials for the purpose of outreach and advocacy.	Global Affairs	<p>Each global RVC identifies at least two events per region that are held annually.</p> <p>Each global chapter chair holds a minimum of one government outreach event.</p>	1, 2	1a; 1b; 2b

MBO	Subcommittee Assigned	Metric	Initiative #	Goal #
		<p>Each global chapter chair identifies the schedule for revision of Energy Codes/Building Codes of the country/state and lists out the possibility of ASHRAE standards that can be referred in the relevant sections.</p> <p>Each global affairs chapter chair develops list of the officer/s associated with the revision of codes and devise the means to get involved with the committee responsible for revision of codes.</p> <p>The chair identifies the pool of expert speakers on ASHRAE standards and arrange meetings of these experts with the committee responsible for revision of codes so as to apprise them of the wealth of knowledge available in ASHRAE resources.</p>		
<p>5. Identify ASHRAE resources and develop advocacy materials that can help state, provincial, federal, and global governmental entities reach their 2030/2050 goals</p>	<p>Policy &amp; Programs</p>	<p>Create at least one piece of advocacy collateral material to support outreach efforts.</p>	<p>1, 4</p>	<p>1a; 1b</p>
<p>6. Work with International Standards Task Force to increase ASHRAE advocacy efforts, including through the tracking and adoption of ASHRAE standards around the world.</p>	<p>Global Affairs</p>	<p>Long-term coordination structure defined.</p> <p>Each global affairs chapter chair identifies societies/associations working towards</p>	<p>3</p>	<p>1b</p>



MBO	Subcommittee Assigned	Metric	Initiative #	Goal #
		<p>sustainability, climate change, green/efficient/smart buildings.</p> <p>Each global affairs chapter chair identifies sustainability/climate change/energy efficiency/decarbonization programs/schemes by all UN/International agencies working in the region.</p> <p>Each global affairs chapter chair holds at least one outreach event with every organization.</p>		
7. Assess how EHC and Residential Committee Emerging Issue Briefs can be used to inform ASHRAE advocacy	Policy & Programs	Review process for EHC Emerging Issue Briefs developed and defined.	1, 2, 3	1a; 3b
8. Establish a GAC Advisory Board made up of senior staff from various government bodies; this group would advise ASHRAE on what technical resources they need.	Policy & Programs	Note: Tim Ashby recommends this MBO be continued through SY21-22.		
9. Improve the effectiveness of the Government Affairs Website	Communications Coordinator, in cooperation with PPSC and MMSC	GAC evaluation indicates improvement.	3, 4	2c

**GREAT  
JOB!**





Shaping Tomorrow's  
Built Environment Today

## CERTIFICATE of APPRECIATION

Presented to

**Eduardo José Conghos**

in grateful recognition of his contribution to the growth and progress of the Society  
through active service on ASHRAE's Government Affairs Committee

*On this the 16<sup>th</sup> day of June 2021*

A handwritten signature in blue ink, appearing to read "Terry E. Townsend".

Terry E. Townsend, PE  
Chair, 2020-2021

A handwritten signature in blue ink, appearing to read "Dunstan Laurance Macauley, III".

Dunstan Laurance Macauley, III  
Board *Ex Officio*, 2018-2021

# Outgoing GAC Members

- Eileen Jensen
- Larry Fisher
- Steve Emmerich
- Rob Hoadley
- Kinga Hydras
- Nate Heffner
- Matt Jesson
- Eduardo Conghos
- Sam Hui
- Roger Jones
- Dunstan Macauley
- Farooq Mehboob
- Terry Townsend



# Eileen Jensen, Members Council Representative



# Larry Fisher, Publishing and Education Council Representative





# Steve Emmerich, Technology Council Representative



Steve Emmerich  
Group Leader





# Rob Hoadley, Region II RVC



# Kinga Hydras, Region III RVC



# Nate Heffner, Region V RVC



# Matt Jesson, Current Region VI RVC





# Eduardo Conghos, Region XII RVC



# Sam Hui, Region XIII RVC



# Roger Jones, Communications Coordinator





# Dunstan Macauley, BOD Ex-Officio



# Farooq Mehboob, Coordinating Officer



# Terry Townsend, GAC Chair



# Townsend Outgoing Remarks

## *The Challenge for Greatness*

**“When we settle for ‘good or very good’ as our highest effort, then good becomes the enemy of great.”**

**John D. Rockefeller**

