



**MINUTES**  
**BOARD OF DIRECTORS MEETING**

**Tuesday, August 3, 2021**

**Approved by the Board of Directors on November 10, 2021.**

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**PRINCIPAL APPROVED MOTIONS**

Board of Directors Meeting

Tuesday, August 3, 2021

<b>No. - Pg.</b>	<b>Motion</b>
1 - 5	Vision 2030 be referred to the Planning Committee for action.



**MINUTES**  
**BOARD OF DIRECTORS MEETING**

Tuesday, August 3, 2021

**MEMBERS PRESENT:**

Mick Schwedler, President  
Farooq Mehboob, President-Elect  
Ginger Scoggins, Treasurer  
Don Brandt, Vice President  
Dunstan Macauley, Vice President  
Sarah Maston, Vice President  
Tim McGinn, Vice President  
Jeff Littleton, Secretary  
Steven Sill, Region I DRC  
Ronald Gagnon, Region II DRC  
Mark Tome, Region III DRC  
Steve Marek, Region IV DRC  
Doug Zentz, Region V DRC  
Rick Hermans, Region VI DRC  
Chris Gray, Region VII DRC  
Randy Schrecengost, Region VIII DRC

Tyler Glesne, Region IX DRC  
Devin Abellon, Region X DRC  
Eileen Jensen, Region XI DRC  
Robin Bryant, Region XII DRC  
Andres Sepulveda, Region XIV DRC  
Richie Mittal, RAL DRC  
Kelley Cramm, DAL  
Wade Conlan, DAL\*  
Dru Crawley, DAL  
Ken Fulk, DAL  
Art Giesler, DAL  
Jaap Hogeling, DAL  
Kishor Khankari, DAL  
Adrienne Thomle, DAL  
Ashish Rakheja, DAL

\*Was not present the entire meeting.

**GUESTS PRESENT:**

Trent Hunt  
Bill Klock  
Sheila Hayter

**STAFF PRESENT:**

Candace DeVaughn, Manager - Board Services  
Chandrias Jacobs, Coordinator - Board Services  
Joyce Abrams, Director - Member Services  
Kim Mitchell, Chief Development Officer  
Mark Owen, Director - Publications & Education  
Stephanie Reiniche, Director - Technology  
Alice Yates, Director - Government Affairs  
Anmarie Wilhoit, Interim Director of Finance

Daniel Gurley, Manager - Membership  
David Soltis, Group Mgr. - Electronic Products & Publishing Services  
Sarah Foster, Editor - Journal & HPB  
Heather Kennedy, Editor - Handbook  
Tony Giometti, Sr. Mgr. - Conference Programs  
Vickie Grant, Manager - Region Activities

**CALL TO ORDER**

Mr. Schwedler called the meeting to order at 8:00 am.

**CODE OF ETHICS**

Mr. Schwedler read the code of ethics commitment and encouraged all members to read the full code of ethics and core values available online.

**ROLL CALL/INTRODUCTIONS**

Roll call was conducted; members, guests, and staff in attendance as noted above.

**REVIEW OF MEETING AGENDA**

Mr. Schwedler reviewed the agenda. 'DEI Subcommittee' update was added to *New Business*.

**GETTING TO KNOW YOU**

BOD members shared details on a photo significant to them, who fed their roots, and one thing that fellow BOD members may not know about them.

**STRATEGIC DISCUSSIONS****STREAMLINING**

Mr. Schwedler facilitated a strategic discussion on Society streamlining. He stated that he wanted to have open and honest discussion, not debate.

He stated that many BOD members indicated that they were in agreement with the spirit of moving forward with streamlining but did not agree with some of the specifics presented. ExCom met in July and had a similar discussion; ExCom did not come to any conclusions after that discussion.

Members shared feedback and suggestions for Society streamlining; comments are summarized below. Several BOD members submitted feedback and suggestions prior to the meeting, these comments are included in ATTACHMENT A.

*Not sure that everyone fully understands changes coming from Standards. There is a lot of rubber stamping at the BOD level that could be avoided. Appeals panels cost Society time and money.*

*A lot of activities that the BOD currently does can be tasked to the Councils. Subcommittees could be formed in key areas and activities can be delegated.*

*Respect the effort of the ad hoc and sincerely believe they did an outstanding job.*

*Push down as much of the decision making as possible. Whatever streamlining is done should be done in stages - develop a skeleton, get feedback, add meat to the bones, and come back again and again until the majority of the members are happy with the plan.*

*Make the councils more important than the BOD. Can improve upon information that is received on Standards.*

*Start looking at specific things that can be pushed down to the councils. If members saw the majority of decisions impacting the grassroots being made by the councils, they would be more comfortable with streamlining efforts.*

*Push more decisions down and let people do their jobs. Society is often slow to react.*

*Eliminate updates on BOD agendas. Reduce the number of BOD and Presidential Ad Hoc. Agendas should be few, strategic, and pre-determined.*

*Need to be more global and have fewer regions. By having fewer regions and more strategic agendas, the councils will pick up more work.*

*Free things up from the bottom up and look at reorganizing the BOD based on what the committees need.*

*Reduce in-person meetings. Give the grassroots more of a say into how streamlining is implemented.*

*Make the regions more efficient.*

*“No taxation without representation.” Don’t think the BOD is too big we’re just doing too much stuff that we aren’t supposed to be doing.*

*The BOD tends to rehash technical issues when it is not our role. Status updates should not be on the agenda.*

*Reduce the regions - somebody can represent a body without physically living there and still have access to them. Don’t believe Members Council should be the group that decides how the regions are broken up, that needs to be investigated at a higher level.*

*The Streamlining Ad Hoc has conditioned the BOD that change needs to be made, that’s a success and a huge hurdle. Need an entire governance structure that is more responsive and more nimble - less bureaucratic and more strategic.*

*ExCom and the Planning Committee are a crutch because the BOD is not able to accomplish these tasks. Should specifically list the tasks that the BOD should stop doing. Have to separate good management of our region/chapter structure from representation on the BOD.*

*Two questions that came out of the ExCom discussion - Does BOD size need to change to be more strategic? Do the number of Regions need to change? The same general questions are coming up here.*

*Need an efficient structure that works for the 21<sup>st</sup> century and not what was efficient in the 1950s. Streamlining plans need to be presented as a holistic approach. Reducing the size of the BOD is the final step in the process, not the first.*

*Not looking for less diverse opinions, looking for a smaller subset. A lot of decisions that come up to the BOD don’t need to.*

*There are opportunities for setting up BOD subcommittees that can be operational or strategic. Alternatives to reducing the size of the BOD which seems to be a non-starter. Different BOD members have different strengths.*

*Should ask the BOD if they want a smaller BOD. The ad hoc has options for either answer.*

Mr. Schwedler reported that Society leadership has started to go out to the regions through the CRCs. The CRCs are an opportunity to get feedback from twelve of the fifteen regions. Most of the feedback has come from members involved at the regional level.

He stated that most of the BOD's decisions don't mean much to the chapter members. Believe we can streamline without any structural changes. Need to make sure we are getting decisions to the proper level whether that is the chapter, region, committee, or council.

BOD members were asked to email Mr. Schwedler with their personal opinion on a smaller BOD, including comments, by the end of the day.

### **VISION 2030**

Ms. Scoggins reported that the Vision 2030 and Beyond Ad Hoc provided recommendations to the BOD at the last meeting. After the BOD meeting, a small group had a strategic discussion on how to implement some of the recommendations from the ad hoc and how the Society can start to implement visioning at all levels.

She reported that a group is needed to look twenty to thirty years out. This is a task that the Planning Committee could take on. Efforts could also be led by the Treasurer of the Society to bring the focus of the visioning group forward through the Society theme and other aspects. There is also potential for a BOD level subcommittee focused on visioning that is a standing BOD level subcommittee that could eventually be combined with the Planning Committee.

Ms. Maston stated that according to the rules, Planning Committee is a broad makeup of members. Planning Committee mostly manages the strategic plan and how the councils and committees are implementing the strategic plan. Planning has not felt empowered to make decisions or statements on visioning.

Ms. Cramm stated that most of the major and strategic decisions are made by ExCom and ExCom then informs the BOD. This happens mostly because it is more efficient. She stated that leads her to believe that a smaller BOD would be a better way to lead the Society.

Mr. Macauley stated that Planning could potentially be reorganized to support all visioning functions because the current structure can't support visioning.

Mr. Klock stated that he would prefer this activity to occur within the Planning Committee. He added that he would like Ms. Hayter and others involved in the Vision 2030 Ad Hoc to help reorganize Planning.

Ms. Hayter stated that the Planning Committee can certainly think of longer-term planning. Vision 2030, however, was asked to look at how buildings will be designed and operated in 2030 which is more specific than supporting the built environment. Vision 2030 is meant to be a way to help provide guidance when the Society is considering what tools and resources need to be developed for our members and the industry beyond the five-year strategic plan. A lot of time was spent with the small

group that Ms. Scoggins facilitated which looked at how Planning can provide input. She stated that a culture change is necessary for Society to begin looking more long range.

Mr. Littleton asked if the BOD were smaller would it be handling the visioning discussion directly? Or would the BOD be talking about the big issues coming up?

Ms. Scoggins summarized the discussion stated that there is a propensity to agree that visioning falls under the purview of the Planning Committee. To accomplish this, Planning needs to add long-term visioning to its responsibilities and additional members may need to be added. The consensus of the BOD was that an additional group is not needed for visioning.

Mr. Hermans moved and Mr. Zentz seconded that

1. Vision 2030 be referred to the Planning Committee for action.

Mr. Khankari spoke against the motion. He stated that it is required to engrain ASHRAE's future vision into ASHRAE's culture through ASHRAE grassroots organizations such as ASHRAE Chapters and Technical Committees. The BOD needs to agree to this in principle first and then implement the plan, which may need structural changes. He stated his opinion that there is an urgency for this matter. It is more appropriate to form a BOD subcommittee to implement this rather than assigning it to the Planning Committee.

**MOTION 1 PASSED (Voice Vote, CNV).**

#### **OPERATIONAL**

#### **PUB AND ED COUNCIL**

Mr. Brandt reported. The full report is included in ATTACHMENT B.

He reported that all five committees have completed their MBOs and reviewed the council's MBOS, included in ATTACHMENT B. The council's MBOs focus on developing new products that the membership and industry are looking for and supporting task forces. New products need to be investigated to boost revenue.

#### **TECHNOLOGY COUNCIL**

Mr. McGinn reported. The full report is included in ATTACHMENT C.

He reported that a number of the council's MBOs are focused on streamlining.

Ms. Maston commented that the committees came well prepared for this discussion.

#### **MEMBERS COUNCIL**

Mr. Mehboob reported. The full report is included in ATTACHMENT D.

He reported that the council is aware that Society has been experiencing decreased employer support and declining membership numbers. This is a challenging situation, and the data needs to be studied. Society also needs to figure out what our member's expectations are.

Collaboration with Pub and Ed Council is imperative.



The task force will not be interfering with the activities of the Membership Promotion Committee already planned. Mr. Owens and Ms. Abrams will be the staff liaisons.

### **NEW BUSINESS**

#### **DEI SUBCOMMITTEE UPDATE**

Mr. Sepulveda reported that the DEI Subcommittee had its first meeting. The subcommittee's first priority is training for BOD members and staff. The training will include an unconscious bias assessment as well as education.

He reported that the subcommittee has discussed the use of an external consultant.

Mr. Schwedler stated that positive feedback has been received on the subcommittee from the CRCs. He thanked the BOD for their wisdom in establishing the DEI Subcommittee.

### **EXECUTIVE SESSION**

Executive session was called at 11:12 am.

Open session reconvened at 11:57 am.

### **ADJOURNMENT**

The meeting adjourned at 11:58 am.



Jeff H. Littleton, Secretary

### **ATTACHMENTS:**

- A. Streamlining Comments and Suggestions
- B. Pub and Ed Council Report
- C. Technology Council Report
- D. Members Council Report

## STREAMLINING SUGGESTIONS

- Farooq Mehboob, President Elect
  - Active collaboration between Councils
  
- Ginger Scoggins, Treasurer
  - In lieu of changing the BOD size (which seems to be a non-starter), set up a reoccurring standing BOD subcommittee focused on strategic planning that can report to the BOD and provide forward-looking efforts for ASHRAE.
  
- Tim McGinn, Vice President
  - Presiding junior officer shall present the proposed streamlining roadmap at all CRC's, soliciting comments to a link on the ASHRAE website.
  
- Steven Sill, Region I DRC
  - Reduce in person meetings and give the grassroots more say as to how this is implemented.
  
- Mark Tome, Region III DRC
  - Let committees operate more freely. Less Roberts Rules and more free discussion.
  
- Steve Marek, Region IV DRC
  - Should discuss why it is bad to combine Pub Ed and TAC.
  
- Rick Hermans, Region VI DRC
  - In order for ASHRAE to be truly global, we need fewer Regions. Region-at-Large, XIII and XIV should remain as is. The rest should be reduced to four Regions. The work of the Task Force is a great guide to accomplish this transition. The BOD and the Councils need no other changes.
  
- Chris Gray, Region VII DRC
  - Eliminate updates on BOD agendas. If there is not a decision to be made by the BOD, the item should not be on the agenda.
  - Reduce the number of BOD ad hocs. A BOD ad hoc should be strategically relevant to future activities and should be closely guided and monitored by the BOD. If an ad hoc is a presidential ad hoc, the President should update on their activities during the BOD meetings.
  - Executive sessions should be scheduled at particular times during the meeting either at the beginning or the end, so non-BOD members know when to log in to hear specific discussions.
  - The BOD should have specific strategic items which it tracks. These items should be few in number and should track across multiple years. We should develop our highest-level important items and track them closely. Other things should be pushed down to other relevant levels of decision making and tracking.

- Randy Schrecengost, Region VIII DRC
  - Rearrange things so the BOD/ExCom have more time for strategic activities.
  - Speed up decision making by “de-siloing”
  - Push decision making down into organization
  
- Tyler Glesne, Region IX DRC
  - A thorough marketing plan with the benefits clearly outlined (both financial and from service to members). I think our society and regional leadership can do a great job selling this transition if we had this material and figures.
  
- Devin Abellon, Region X DRC
  - The streamlining committee, with staff support, develop a spreadsheet that shows all of the society functions/actions that currently require BOD approval, and provide recommendations on which of these functions/actions can be pushed to the councils.

If the members see that the decisions that impact them the most will be made at Members Council, where they do have direct representation, they may be less resistant to this proposed change.

  - More clearly define how the six (6) directors will be selected. I do not support the consolidation of regions and grouping regions together to vote on their directors based on the number of delegates is also problematic.
  - More clearly define the structure of Members Council. Alternatively, create an ad hoc within MC to begin developing a proposed structure.
  
- Eileen Jensen, Region XI DRC
  - I have reached out to several people in our region that I highly respect and value their opinions, so this feedback is not mine alone. I feel reassured that the message has been consistent amongst those I contacted. In general, we are all supportive of the effort to streamline Society. We all appreciate the work that the ad hoc did, and we feel there they provided an excellent foundation on which to build. The most important suggestion we have is to greatly increase our outreach to the members. This includes providing a clear reason for the change, what we hope to accomplish, and especially how it will be done. The “how” piece is especially critical for feedback from the members, to give them some ownership to move forward. This may require an extra year to work out some of the details that are currently not worked out but the experience of the rollout of the RMCR position should have taught us that a clear understanding of new positions are critical to their success. In Region XI, we were very fortunate that our DRCs took it upon themselves to develop the role and involve the incoming RMCRs in that process. I don’t believe this happened in all of the regions so the position has had mixed results. If we take the time to sort out the new roles of the RMCR, Governor, and Regional Director, I believe this change has a greater chance at success and the grassroots side of Society will feel like they have had a vested interest in

the process. I also believe we need more time to think through how the Regional Director position is chosen – that process seems confused at this point. I also think there needs to be more involvement and feedback on the technical side of Society since I haven't found very many people with much knowledge of what is being proposed for them. Again, this could alienate our members so outreach is key. It isn't that the proposals are wrong or bad – we just need to get the information out to the members.

The 3 year timeline for switching from the current RMCR/DRC structure, to the new structure looked good to me. It is similar to how the RMCR position was brought on board and that aspect of implementation worked well enough. I just think we need a little more time before we start that process. A little more thought up front, could allow us to get a more unified message from the Board and that should help assuage some of the fear of this change. Communication will be essential to this success.

I also think it is important to let the ad hoc know that they did not fail in their efforts. Quite the contrary. They accomplished a tremendous amount of work in a year's time. But it is the very nature of an ad hoc to produce "the answer" in one year (which is only as long as they are allowed to exist), that puts an artificial and unnecessary burden on them. I hope that you will convey to them that I appreciate everything that they did. They clearly listened to the people that they spoke with and made adjustments based on the feedback they received. I understand that they had to make choices about how many people they could contact for feedback and still meet their deadline. I believe the next step is to build on that work with many more people (the full Board) to further the outreach and communications. They should be commended for all that they've done.

- Apichit Lumlertpongpana, Region XIII DRC
  - I would like someone to double check whether the F2F centralized training is worth it compared to the traveling expense that Society pays. My point of view is it will make the F2F CRC become weak and lower the number of people that attend and sponsors will not be interested in supporting or contributing to the CRC yearly meeting.
- Andres Sepulveda, Region XIV DRC
  - I would like President Schwedler to resubmit the motion, bringing it back to the Board. Our Society needs to develop a more strategic, effective, and efficient operating structure.
- Richie Mittal, RAL DRC
  - The BOD shall be smaller and shall focus towards the vision and strategies of ASHRAE.
- Wade Conlan, DAL
  - Reduce the number of directors. The number of directors should be from the Council's recommendations to Nominating, as well as from CRCs, for Nominating to select. There should be no more than ½ of the Directors from a single Council.

- Example: Limit of 9 directors. Three Councils as structured now. No more than four Directors from any one of the three Councils.
    - Nominating already tracks Regions so adding Council to one position would not be that much to do.
  - Reduce the approval process for documents that need BOD approval.
    - First check if we can have them be approved at a lower level.
    - Then, figure how we can reduce the number of approvals.
      - An example is a Position Document. It requires approval from five parties - the PD Committee, Cognizant Committee or TC, Document Review Subcommittee, Tech Council, BOD.
      - Standards that have no objecting commenters should be approved at Tech Council.
      - Standards with objections should have BOD review and comment (although I believe the reporting forms need to be altered to show more of the PASA Process concerns than currently provided (which I have shared with Stephanie and Connor).
    - Grow the Council's image with the members since that is where the "work is done." It would shift the image of the BOD to be "executive" and less "day to day."
- Ken Fulk, DAL
  - Possibly not direct structure related, but a streamlining, or better use of time idea, would be to give autonomy to the Councils, and Committees where possible, letting them be the final authority on items that the BOD agrees are items that do not really need BOD input. This might entail a task group to come up with the lists that apply to each group that the BOD can consider relinquishing. For example, a Technology related item would be that the BOD only be required to see and approve the first version of any new standards, the top five consensus type standards (which seem to be the ones with the most negative votes and issues) and any revised standards where there are either negative votes or a minimum number of negative votes? Keep the BOD on big picture items!
  - I tend to think that the BOD has been involved in numerous Strategic Plans and I feel like we do more than is necessary. Most groups I have worked with in the past typically take a deep dive no more frequent than about every 5-10 years, with more minor adjustments on an annual basis. And we have a lot of different plans for different groups. Possibly ASHRAE should consider establishing a schedule to prevent this from happening more than is necessary and which might also integrate other strategic plans all into one common plan?
  - Identify the optimal size of the BOD, stick to it, and be consistent in this goal as opposed to suggesting there may be future adjustments in size at a later date (which was noted in one of our prior BOD meeting presentations); do this one time and be done with it!
  - With a reduced BOD size, create Regional Chairs, separate from the current DRC, that basically would replace the RMCRs to include membership on Members Council. These

people become candidates for the regional type directors. They would also serve in the capacity as ExOs but with a different title; possibly as a Society Ambassador?

- Similar to the DRC structure change noted above, the current DALs structure needs to be revamped to where we might have technical side advisors who continue to serve in the role as what DALs currently serve in now, like an ExO but no longer with that title, similar to above, become Society Ambassadors (SAs)? You would then have regional SAs and technical side SAs? Another name could be developed.
  - Break the Regions up into zones and have CRCs conducted in zones, size and specific numbers to be determined. Each Regional Director would be assigned to a zone, number of zones to equal the number of regional directors.
  - Clearly identify the proposed organization of the proposed smaller BOD; fine tune what has already been done to date (possibly with suggestions above).
  - The overall structure of the Society does not really need to change that much from what it is now and I would suggest we keep those changes to a minimum; give the new smaller BOD system a chance to work for 2-3 years, preferably a minimum of 3 years, before any further organizational changes are made.
  - With a smaller BOD, BOD member assignments for the smaller BOD need to be reconsidered. Try to keep various Council/Committee assignments to a minimum with emphasis placed on serving on Councils and Committees that report directly to the BOD, not on committees not reporting to the BOD.
- Ashish Rakheja, DAL
- ASHRAE needs to revisit the Regional structure. A restructuring of Board without addressing the core issue of Regions may be counterproductive.
  - A large number of activities currently undertaken by Board members should be delegated to Councils who should be empowered.
  - ASHRAE Board should take up strategic activities like some of those mentioned below. Members should be assigned to sub-committees which are responsible for looking after these functions and report during Board meetings.
    - Finance
    - Planning
    - Globalization
    - Operations
    - Strategy
    - .....
- Adrienne Thomle, DAL
- The only suggestion I have concerns approval of new or revised technical standards. I have an issue with the approval process of the BOD being a rubber stamp process since a majority of the DRCs do not understand the technical process of the Standards/Guidelines process. It may not be streamlining but my suggestion is to have a sub-committee of the BOD of the DALs to review all motions from the Standards Committee and recommend approval to the BOD or be given the authority to approve the changes on behalf of the BOD.

If the DALs have an issue with a standard change or a new standard proposal, it should be resolved at the DAL level before it goes to the BOD. This may cut down on the number of standard changes that go to the ASHRAE appeals panel.

- Kishor Khankari, DAL
  - Make meeting agenda specific to strategic planning and discussion.
  - Evaluate for each BOD meeting what percent of time was devoted to strategic discussions. Evaluate which decisions (motions) can be delegated to Councils and Standing Committees.
  - Limit information items and reporting. Keep those as last items on the agenda.
  - Evaluate whether email ballot is appropriate for a few motions such as approving the meeting minutes.



**Publishing and Education Council Report  
to the Board of Directors**

Meeting of August 3, 2021

1. All five committees have completed their MBO's for this Society Year.
2. Publishing Committee had their first meeting on 7/22/2021.
3. Handbook Action Team met on 7/27/2021. Full report in Executive Session.
4. Dunstan and I met with Farooq and Ginger last week on the new Membership Development Task Group.
5. PEC MBOs for this Society Year attached.

Respectfully submitted,

Don Brandt, Chair



## **PEC MBOs for 2021-22**

- MBO #1 Continue to create and identify digital product strategies.
- MBO #2 Continue to develop ASHRAE products and services for governmental and other noncommercial entities.
- MBO #3 Develop new products and services aligned with Strategic Plan initiatives 1 and 2 (ETF and TFBD).
- MBO #4 Expand our line of educational products to include newer HVAC Systems in the F2F format, virtual learning, and self-directed text.
- MBO #5 Analyze Membership trends statistics with respect to industry classification, membership grades, regions, demographics etc. Review value proposition of ASHRAE membership and products and services. Based on the analysis recommend actions and a plan to reinvigorate membership growth.

## Information Report to the Board of Directors

### From Technology Council Meeting as of June 23, 2021

#### MOTIONS TO THE BOARD OF DIRECTORS

None.

#### INFORMATION ITEMS:

##### TECHNOLOGY COUNCIL

Technology Council met on Wednesday, June 23, 2021. All business was completed.

#### STANDING COMMITTEES

##### Standards Committee:

1. Standards Committee approved changes to the Title, Purpose, and Scope (TPS) for SPC 227, *Passive Building Design Standard*.
2. Standards and Guidelines:
  - a. ANSI/ASHRAE Standard 55-2020, *Thermal Environmental Conditions for Human Occupancy*, has been republished. Standard 55 incorporates ANSI/ASHRAE Standard 55-2017 and Addenda *a, b, c, d, e, f, g, and h* to ANSI/ASHRAE Standard 55-2017. Published addenda to 55-1017 are posted on the ASHRAE website at <https://www.ashrae.org/technical-resources/standards-and-guidelines/standards-addenda>.
  - b. ANSI/ASHRAE/ASHE Standard 170-2021, *Ventilation of Health Care Facilities*, has been republished. Standard 170 incorporates ANSI/ASHRAE/ASHE Standard 170-2017 and Addenda *a, b, c, d, e, g, h, i, j, k, l, m, n, p, q, r, and s* to ANSI/ASHRAE/ASHE Standard 170-2017. Published addenda to 170-2017 are posted on the ASHRAE website at <https://www.ashrae.org/technical-resources/standards-and-guidelines/standards-addenda>.
  - c. Standard 62.1, *Ventilation and Acceptable Indoor Air Quality* and Standard 62.2, *Ventilation and Acceptable Indoor Air Quality in Residential Buildings* were both republished in October 2019. The 2019 User's Manual for 62.2-2019 was published in January 2021. The user's manual for 62.1-2019 will be published soon.

##### Technical Activities Committee (TAC):

1. TC 2.10, *Resilience and Security*, has spearheaded a plan to achieve the Resilient Buildings and Communities Initiative of the ASHRAE Strategic Plan. A series of meetings were held culminating in a roadmap that included short, medium, and long-term goals to meet the Society Strategic Plan. Comments were subsequently requested on the plan. The next step is to broaden this initiative to other Functional Groups (FGs) of TAC and a kickoff meeting is being scheduled to occur this summer.

2. TAC approved the formation of a new Task Group entitled Reactive Air and Surface Treatment. This new TG will primarily serve as a home for air cleaning technologies not currently covered by other functional groups including photocatalytic oxidation (PCO), ionization, and hydrogen peroxide. Specifically excluded is direct UV technology covered by TC 2.9. The first order of business will be to initiate work on a much-needed method of test (MOT). TAC will strive to ensure the first roster contains a balance of technologies and member types.
3. TAC developed a Functional Group (FG) Evaluation workbook to perform both a subjective and objective evaluation of the functional groups under TAC. This was rolled out at the Winter Meeting and will be an annual task. Data from the effort is now available and will serve to help formalize FG continuation procedures. This form is part of a broader effort to improvement management of the FGs under the purview of TAC. TAC also created a new email ([asktac@ashrae.net](mailto:asktac@ashrae.net)) intended to give everyone a direct contact to TAC to respond to all needs and questions.
4. TAC approved a scope change to TC 6.9, Thermal Storage, to broaden beyond storage technologies typically only applied in cooling applications.
5. TAC developed a series of Leadership Training blocks. These were initially developed for use by TC leadership, however, they are a great resource for all of ASHRAE. TAC is working with ASHRAE staff to make PDH credits available for those who take the leadership training.

#### **Research Administration Committee (RAC):**

1. RAC has determined that the Grant In Aid program suspension will continue into the 2021-22 Society Year to allow for funding of additional research projects. All currently active research projects were still paid out during the 2020-21 Society Year.
2. On hold Research Projects from the past Society Year will be placed out for bid and acceptance based on when the projects were submitted and approved by RAC. Priority will also be given to research to support work on the 2025 Handbook updates and items that would advance the Society Strategic Plan.
3. The Research Advisory Panel is completing the review of the Research Strategic Plan based on the feedback from RAC and members of the Board of Directors. This should be considered by Tech Council at the Fall meeting. Approval stops at Tech Council.

#### **Environmental Health Committee (EHC):**

1. Updates on the *Infectious Aerosols, Limiting Indoor Mold Growth and Dampness in Buildings, Filtration and Air Cleaning, Indoor Carbon Dioxide*, position documents (PD) were reported to Document Review Subcommittee (DRSC).
2. EHC developed and approved a report titled "*Knowledge Gaps in Built Environmental Quality*". This report is the result of survey and meetings with experts inside and outside of ASHRAE to explore and identify the current knowledge gaps related to the built environmental quality. The report can be used to help define how ASHRAE might address current gaps.

3. EHC developed and approved a report titled “*EHC Report to ASHRAE Technology Council - Recent Trends in Environmental Health*” and provided it to Tech Council. . This report is prepared in response to an EHC MBO to identify and report on recent trends in the environmental health and its impact on HVAC&R industry.
4. ASHRAE continues to participate in the Indoor Environmental Quality Global Alliance (IEQ-GA) with Bill Bahnfleth as the ASHRAE representative. The IEQ-GA is now finalized as a legal entity and operates with 11 full member organizations (ACGIH, AICARR, AIHA, AIVC, ASA, ASHRAE, FAIAR, FEDECAI, IICRC, ISHRAE, REHVA). There are two other affiliate associations (MAIQC, SIE). IEQ-GA has partnered with the International Society of Indoor Air Quality and Climate (IAIAQ) to develop a new video show and podcast called *Indoor Environments: Global Research to Action*. The new video show & podcast explores how research can be translated to practice on a variety of topics related to our build indoor environments. The first podcast aired on June 30, 2021 on indoor environmental quality in schools.
5. The IAQ 2020 Conference, *IEQ Performance Approaches, Transitioning from IAQ to IEQ*, will be moved to May 4-6, 2022. The conference will take place in Athens, Greece as a face-to-face meeting. Chair’s Bill Bahnfleth and Max Sherman are co-chairing the event which will be co-organized by ASHRAE, AIVC and the IEQ-GA. Details on the conference can be found at [www.ashrae.org/iaq2020](http://www.ashrae.org/iaq2020).
6. EHC is sponsored a 3<sup>rd</sup> seminar titled “*Attitude and Technology Changes as A Result of Covid for the Reopening of Buildings*” on June 25<sup>th</sup> and had over 100 attendees. This was the third EHC sponsored seminar, the first two being held January 8<sup>th</sup> and May 13<sup>th</sup>.

#### **Refrigeration Committee (REF-CPCC):**

1. Based upon a recommendation of the ASHRAE Honors and Awards Committee and the low number of nominations received over the past five years for the Comfort Cooling Award, the Ref-CPCC Awards Subcommittee took on the charge this past fall to combine aspects of the Board dropped Comfort Cooling Award with the current Milt Garland Award. The proposed new award will be called the *Milt Garland Commemorative Refrigeration & Comfort Cooling Award for Project Excellence*. One nomination from the Hong Kong Chapter was considered this year for this new award, but the review subcommittee decided the Hong Kong Chapter project was not particularly unique or innovative, so no award was given this year.
2. REF-CPCC took on the charge following the 2021 winter meeting to help develop a news article on the challenges that exist in distributing the Co-VID 19 Vaccines around the world via a global cold chain distribution system. The article working group held a kick-off meeting on Friday January 29<sup>th</sup>. A white paper was developed out of this effort over the next couple months as a result and it is now being considered for publication in the ASHRAE Journal.
3. The new REF-CPCC subcommittee structure continues to grow in membership and participation as more members learn about the following new subcommittees for REF-CPCC:

#### **New REF-CPCC Subcommittee Structure**

1. **Program** - Chair: TBD – Members: Coulomb, Kazachki, Ravi, Miyara, Hwang
2. **Research** – Chair: Kashif Nawaz – Members: Ayub, Chakroun, Nawaz

3. **HVAC** – Chair: Steve Kujak – Members: Hourahan, Abdelaziz,
4. **Cold Chain** – Chair: Dustin Lilya – Members: Ayub, Saunders, Hon, Scott, Olama, Surange, and Gallaher
5. **R in ASHRAE** – Chair: Didier Coulomb – Members: Rajan, Selbert, Walter, and Ayub
6. **Refrigeration Bi-Annual Technology Report** – Chair: Martin Dieryckx – Members: Eltalouny, Rajendran, Welter, Kazachki, Zha, Ayub, and Olama
7. **Award Subcs** – Chair: Ayman Eltalouny – Members: Dieryckx, Hon, and Mitroga

All subcommittee Chairs were asked to each finalize their scope statement and identify one or two objectives that they wish to accomplish this Society Year..

Lastly, the scopes and objectives for each subcommittee were shared with the REF-CPCC Interested Parties list and with the Section 10 TCs to recruit additional members from outside REF-CPCC to serve on these new subcommittees. In order to make participation easy and inclusive, All REF-CPCC subcommittees will meet via web meetings only and all subcommittee members will have a vote at the subcommittee level. Subcommittee Chairs will then report in person to REF-CPCC on subcommittee activities at Society meetings.

It is expected that this new subcommittee structure will also make it easier to identify and recruit Board elected members for REF-CPCC by creating a large pool of interested volunteers that vote and work at the subcommittee level only, but don't receive transportation reimbursement from ASHRAE since all REF-CPCC subcommittees meetings will be held via web meetings.

### **Residential Building Committee (RBC):**

1. Residential Buildings Committee approved updates to their Manual of Procedures (MOP) and Reference Manual to include the new procedures developed under this year's MBOs.
2. Updates to the initiatives being worked on by the Process Subcommittee are as follows:
  - Two representatives from RBC are serving on the Buildings Conference Series Steering Committee and working with Conferences and Expositions Committee (CEC). A residential track is planned for the next Buildings Conference which is scheduled for December 5-8, 2022 in Clearwater, FL.
  - RBC submitted a proposed title, purpose, and scope for a proposed guideline on the *Design and Construction Practices for Controlling Humidity in Residential Buildings*. Guidance on this issue would be helpful to the residential construction market. Feedback received from Standards PPIS will be considered and an updated proposal will be submitted prior to the Fall meeting cycle
  - A process to collaborate with TAC/TCs has been developed. The committee is now developing messaging with which to reach out to the Technical Committees to initiate collaboration.
  - RBC has initiated a review and compilation of ASHRAE resources with residential content. A spreadsheet has been developed to catalog the information by document and primary content type (general, residential, commercial, other). This work will be used to further a number of the

committee's MBOs including reaching out to the TCs and updating the RBC webpage.

3. Updates to the initiatives being worked on by the Communications Subcommittee are as follows:

- The final draft of a Residential Issue Brief on *Wildfire Smoke Hazards for Dwelling Occupants* was approved by RBC at the virtual Annual Meeting and will be posted on the RBC web page. Additional drafts will be developed by the committee as new issues are identified. Topics of interest include mold and transfer air in multi-family buildings.
- The proposed *Residential Buildings Service Award* to recognize excellence in volunteer service within ASHRAE focused on residential building issues over previous two years society years was approved by Honors & Awards committee. A nomination form for this award is being reviewed by RBC for implementation in the 2021-22 Society Year.
- The nomination for a Distinguished Lecturers to present on ASHRAE Standard 90.2 was approved and will be available to chapters starting on July 1, 2021.
- RBC is working to identify potential residential seminar topics that can be pursued in collaboration with TC Program Chairs. This will be an ongoing operational process for the committee.
- An updated format for the RBC web page that better highlights the residential resources available at ASHRAE has been approved by the committee. The new web page will go live in July 2021. Updates will be ongoing as new resources are identified and updated.
- Work continues on residential articles and the Residential Buildings column for the ASHRAE Journal. Two residential columns and two residential articles were published during the 2020-21 Society Year and one additional article has been submitted for peer review.
  - Published Residential Columns
    - March 2021 – Residential Buildings: How Residential Water Heating is Changing
    - June 2021 – Residential Buildings: How Smart are Today's Smart Homes?
  - Published Residential Articles
    - May 2021 – Consider these Five Integrated Pest Management Strategies
    - June 2021 – Home Retrofit Results in Net Positive Energy Operation

## **SUBCOMMITTEES**

### **Operations Subcommittee (OPS):**

1. OPS approved the revisions to the Residential Buildings Committee Manual of Procedures.
2. OPS was informed about the streamlining efforts at the Society level and it was discussed that the standing committees and the voting members of Tech Council should begin thinking of ways to streamline activities further. In addition, it was discussed to think about ideas of activities that could be approved at lower levels to speed up the business of Society. It was agreed those changes would be looked at after the Board considers the motion regarding the size of the Board of Directors. One item suggested by staff was to revamp the Tech Council subcommittees by merging Special Projects and Document Review Subcommittees. An action item was assigned to Staff to distribute the suggested streamlining ideas written

by Tim McGinn to facilitate ideas for consideration by the Standing Committees. This will be a focus for this Society year.

3. This next year OPS will be focusing on guiding the Standing Committee Chairs and Vice-Chairs in writing more strategic MBOs. Tech Council leadership is working on creating a training presentation to share with members of OPS and Tech Council.

**Special Projects Subcommittee:**

1. The Special Projects Subcommittee discussed the prospects of a new project around the proposal to create a new District Energy Standard supported by Empower. A research project would be needed initially in order to develop metrics on which the standard could be based. The status of the project is unclear and will be investigated by staff for further consideration by the subcommittee.
2. Additional discussions with RAC and Publications on the PTAR process were suggested so as to clarify any remaining ambiguity on roles and responsibilities between RAC, Special Projects Subcommittee and Publications.
3. While the residential version of the epidemic preparedness document is nearing completion, work on the commercial version has not yet been initiated. Additional discussions are needed to determine if that work is still appropriate and if so, how to proceed.
4. Special Project Publications Updates
  - SP 143 AEDG for Multifamily Buildings: Zero Energy – Publication Summer 2021
  - SP 144 Designing for Operational Excellence Guide – Publication Summer 2021
  - SP 301 Standard 62.1-2019 User Manual – Published
  - SP 302 Standard 62.2-2019 User Manual – Published

Respectfully Submitted by:

Tim McGinn, Technology Council Chair

Date:

## MEMBERSHIP DEVELOPMENT TASK GROUP

### Leaders:

Dunstan McCauley, VC Pub-Ed Council, Co-Chair  
Ginger Scoggins, VC Member's Council, Co-Chair

### Members Council Reps:

Chair, Planning Sub-committee – Jim Arnold  
Chair, YEA – Shona O Dea  
Chair, Membership Promotion Committee – Jonathan R. Smith

### Pub-Ed Council Reps:

Chair, Products and Services Subcommittee – Kelley Cramm  
Chair, Publications Committee – Adeeba Mehboob  
Chair, Training and Education Committee – Keith Reihl

## 1.0 BACKGROUND

ASHRAE membership growth is being challenged by a changing environment and culture in the digital age. It is necessary to study ASHRAE membership development holistically and based on data analysis define membership trends and identify the changes taking place which are impacting our membership numbers. Member's expectations in today's environment need to be ascertained along with changes taking place to the support structure of member's dues. It is required to analyze membership trends statistics with respect to industry classification, membership grades, regions, demographics etc. and review the value proposition of ASHRAE membership. Based on the analysis formulate and recommend actions and a plan to reinvigorate membership growth.

A task of this magnitude cannot be undertaken in isolation by a single council as the membership value proposition involves products and services to match member expectations.

With this background Members Council and Pub Ed Council leadership have come together to address the task via a cross council group and the involvement of relevant committees.

## 2.0 SCOPE

The scope of the Task group will cover the following major areas:

- Trend analysis of membership numbers and performance of products/services by industry classification and demographics. to determine how revenues/profits could be enhanced.
- Study member expectations and the value proposition of ASHRAE membership for products/services. Survey and interview members and others as needed.



- Study other competing sources which members and others can go to for information and products/services normally provided by ASHRAE.
- Based on data recommend an action plan for reinvigorating membership growth and provide needed products/services for our industry.

### **3.0 DELIVERABLES & TIMELINES**

It is intended that the Task Group complete its work in the 2021-2022 Society year.

It is required that the task group will provide written reports to MC and PEC at the Winter and Annual meetings. The report at the winter meeting shall be a written interim report, it is expected that trend analysis, surveys and interviews and evaluation of competition will be completed in time for the interim report submission.

The final report will be submitted at the Annual meeting. A short update on the work in progress will be provide at meetings before the winter and annual meetings.

### **4.0 OPERATING METHODOLOGY**

The Task Group will meet by conference call and email. The Chair(s) will advise staff to schedule the calls and shall decide the frequency of calls. A face-to-face meeting may be scheduled at the Society meetings logistics permitting.

The interim and final reports shall be presented at the winter and annual meetings after the Chair(s) have reviewed and approved them.

### **5.0 RESOURCES**

- ✓ Membership Models Ad-hoc Report
- ✓ Pub Ed Ad-hoc Report
- ✓ Membership Marketing Plan

## **MEMBERS COUNCIL MBO's SY 2021 – 2022**

### **MBO # 1**

Analyze Membership trends statistics with respect to industry classification, membership grades, regions, demographics etc. Review value proposition of ASHRAE membership and products and services. Based on the analysis recommend actions and a plan to reinvigorate membership growth.

### **MBO # 2**

Review Members Council governing documents including ROB sections, MOP and Resource Manual. These documents in their current form do not cover the full scope of Members Council responsibilities, The Resource manual and the MOP to be comprehensively updated, Elements of the ROB identified as operational may be incorporated in the MOP as appropriate.. Revised documents to be tabled for Members Council approval.

### **MBO # 3**

Analyze the motions review and resolution process from inception to resolution and recommend a revised process to speed up motion resolution to within 6 months of the region CRC.

### **MBO # 4**

Develop a training presentation on LEAN processes based on the work of the Society Transformation Adhoc LEAN Subcommittee for use by Members Council Committees, Regions and Chapters

### **MBO # 5**

Develop a Training presentation on Budget development and control including an explanation of authority levels and ASHRAE Finance Committee processes. Include tools developed by Finance committee for financial analysis and decision making.

#### **Prepared by:**

Farooq Mehboob  
Chair – Members Council

**REPORT TO THE BOARD OF DIRECTORS**  
**From the Members Council**  
**As of June 22, 2021**

**Information Items:**

1. The ASHRAE Membership approved a bylaws change by 96% of the vote to rename “Member” grade to “Full Member” grade. All reporting committees of Members Council are asked to revise their documents to reflect this change. The Full Member grade will also be revised in the Manual for Chapter Operations, Region Operations Manual and the Chapters Regional Conferences Manual.
2. Members Council approved completed MBO 1, “Explore frequent use of digital live trainings for Grassroots,” from the Planning Subcommittee which is a 32-page document and is available upon request (includes a presentation).

Members Council approved completed MBOs 2 and 3, from the Region Operations Subcommittee as shown below.

MBO 1: Develop guidance and/or update language in the Manual for Chapter Operations to assist Chapters in conducting business virtually for critical operations such as conducting chapter elections, BOG meetings, audits, chapter meetings, etc.

MBO 2: Gather Lessons Learned from virtual CRCs; what worked, what didn’t work, what can be improved, and what can be used to make recommendations for the future of CRCs.

3. Members Council approved a motion in regard to “ExCom Action Item 32 (11/19): To review chapter financial accountability, policies and procedures when dissolving chapters and edit or add to the MCO.” This information was added to the MCO.

**Conferences and Expositions Committee:**

4. The 2021 ASHRAE Virtual Annual Conference held June 28-30, 2021 was the same platform used for the 2021 Virtual Winter Conference. The technical program included timeslots to better accommodate attendees in across global time zones, additional networking programs held via Zoom, and sponsor demonstration sessions.
5. The 2021 Virtual Annual Conference had 46 live sessions and 56 sessions presented ‘on-demand.’ In addition, 7 Meet-Ups and Roundtables, 6 Sponsor Technology Demonstrations, 1 Honors and Awards session, 1 Social Event (Closing Entertainment), 1 Meeting of the Members and 1 session dedicated to live election results, installation of the new BOD, and 2021-2022 Presidential Address by Mick Schwedler.
6. Through the efforts of the CEC Event Sponsorship Subcommittee and staff, \$78K sponsorship revenue was raised.
7. Topical Conferences Held Since January 2021:
  - March 10-12, 2021, Virtual Design and Construction, was *presented virtually*. This conference was originally scheduled to take place in Orlando, Florida.

Topical Conferences in Process:

- November 10-12, 2021, 2021 Building Performance Analysis Conference, Denver, Colorado
- May 4-6, 2022, IAQ 2020, Athens, Greece, co-organized by ASHRAE and AIVC
- June 22-24, 2022, Ventilation 2022 Conference, Toronto, Canada will immediately precede and be held at the same venue as the 2022 Annual Conference
- October 20-21, 2022 – Efficient Building Design, Beirut
- December 5-8, 2022, Buildings XV, Clearwater Beach, Florida
- October 2023 – Cold Climate Conference, Anchorage, AK

Future Annual and Winter Conference Sites

- Winter, January 29 - February 2, 2022 – Las Vegas
- Annual, June 25-29, 2022 – Toronto
- Winter, February 4-8, 2023 – Atlanta
- Annual, June 24-28, 2023 – Tampa Bay
- Winter, January 20-24, 2024 – Chicago
- Annual, June 22-26, 2024 – Indianapolis
- Winter, February 8-12, 2025 – Orlando
- Annual, June 21-25, 2025 – Phoenix

**Communications Committee:**

8. The Communications Committee approved revisions to the Virtual Meeting Guidance document, which incorporates information from other committees and groups within ASHRAE as well as lessons learned from working in a virtual environment for over a year. Information on hybrid meetings is included in this revised addition. The revised guidance will be shared with ASHRAE staff liaisons, promoted via the Chapter Notes newsletter, and posted to the Communications Committee and eMeetings pages of ashrae.org.
9. Communications Committee hosted seven “office hours,” free online information sessions covering topics within the committee’s areas of expertise. Guidance documentation from Communications Committee has been reviewed and revised and reposted to the Communications Committee page of ashrae.org. The 30+ guidance documents available from the committee are intended to serve the entire Society. Any member with interest is encouraged to review the guidance and tips available.

**Chapter Technology Transfer Committee:**

10. CTTC published two Tech Hours during 2020-21. The Commissioning Tech Hour was released on April 1 and the BEQ Tech Hour was released on June 16. The Tech Hour Ad Hoc is actively researching Tech Hour topics and plans to publish 3-4 Tech Hours for the 2021-22 Society Year.
11. The BOD tasked CTTC to consider drafting a disclaimer appropriate for all presentations given to ASHRAE Chapters, explaining that the opinions expressed are that of the presenter and not ASHRAE or the Chapter. CTTC has assigned this to their Member Services Subcommittee for review and plans to report back at the 2022 ASHRAE Winter Conference.

12. The 2020-21 DL program completed a total of at least 280 virtual visits. We estimate that this number is low because not all virtual DL visits were reported. The 2021-22 DL program will continue with virtual visits through at least August 31, pending Board feedback. CTTC has approved a roster of 70 lecturers. Six new DLs will begin 2-year terms July 2021.

**Government Affairs Committee:**

13. The GAC set a goal of 78 Government Outreach Events to be held during Society Year 2020 – 2021. The GAC held 68 events as of June 4, 2021, with additional events scheduled and planned; if a portion of those additional events are held, the GAC estimates a total of 74 Government Outreach Events will be held this Society Year. The total to date includes 16 city/local events, 17 state events, 7 U.S. federal events, and 28 global events (which far exceeds the initial global target of 15 events). GAC and other ASHRAE members are to be commended for this 36% increase to date in events from the previous Society Year, in which 50 events were held. This is especially impressive in light of the challenges the pandemic brought to us.
14. Outreach to Government Officials Concerning COVID-19 Resources, Developed by ASHRAE's Epidemic Task Force (ETF): Resources developed by the ETF continue to be essential to the GAC's government outreach efforts. Guidance documents on schools in particular have been very well received. ASHRAE's guidance documents have been incorporated into government policies, regulations and legislation in the U.S. at the federal, state and local levels, and globally have been incorporated by numerous governments internationally.
15. GAC is delighted to announce that its recommendation that ASHRAE produce a Position Document on Building Decarbonization has been approved by Tech Council and that the Task Force for Building Decarbonization (TFBD) was formed by President Gulledge and President-Elect Schwedler. Building decarbonization is a key focus for elected officials and policy makers and GAC will continue to provide input to the TFBD and looks forward to resources expected to be produced by the TFBD.

**Honors and Awards Committee:**

16. The H&A Committee reviewed nominees for the Distinguished Service Award (DSA) and Exceptional Service Award (ESA) and will be presented to Members Council at the 2022 ASHRAE Winter Conference. Recommendations for the Louise & Bill Holladay Distinguished Fellow Award and the Andrew T. Boggs Service Award were made to the Board in accordance with the Rules of the Board.

**Membership Promotion Committee:**

17. The Membership Promotion Committee is working to produce a "Recruitment Award," to present to Life Members who bring in new members. This is still under development while the details are being worked out.
18. MPC developed a Limelight Award and Boomerang Award to present at CRCs for recruitment and retention. A toolkit for Principals Night was created to help recruit and retain members. MPC is working with Region XIV to build engagement with their members. Centralized Training materials are being updated to address the reasons members cancel.

19. As of May 31, 2021, ASHRAE had 51,490 paid and unpaid members compared to 55,728 this same time last year. The developing economies membership program is in its 13<sup>th</sup> year. In July 2008 just after it began, 135 members participated. As of May 31, 2021, 2,071 members are participating (includes all new grades that were added).
20. MPC requested that RVCs let their chapter chairs know that the hardship clause exists and that if any members face a financial crisis due to COVID-19 they would be eligible for help. This does not cover members whose employers have stopped paying their member dues.

**RP Committee:**

21. The Research Promotion Committee's campaign goal for 2021-22 of \$2,600,000 was approved as shown below:

<b>Region</b>	<b>Goal</b>
I	\$212,000
II	\$196,000
III	\$206,000
IV	\$191,000
V	\$139,000
VI	\$180,000
VII	\$144,000
VIII	\$452,000
IX	\$270,600
X	\$199,500
XI	\$173,000
XII	\$153,000
XIII	\$50,100
XIV	\$5,800
RAL	\$28,000
<b>Total</b>	<b>\$2,600,000</b>

**Student Activities Committee:**

22. As of May 31, 2021, ASHRAE had 4,845 student members. The number of student members at this same time in previous years is shown below.
  - May 31, 2020 is 7,182.
  - May 31, 2019 is 8,067
  - May 31, 2018 is 7,593
  - May 31, 2017 is 8,093
23. SAC provided Centralized Training via a live Zoom with previous Society award winners as panelists. It took place Friday June 25<sup>th</sup> using translation feature. On-demand videos were created by each subcommittee and uploaded to the website. All SA Chairs and

SBA's that registered for Centralized Training were encouraged to watch the videos in advance so that the live session could focus on questions and best practices.

**Young Engineers in ASHRAE Committee:**

- 24. YEA's membership decreased by 1% to 10,468 and did not meet the Committee's goal of 10% increase. YEA continues to focus on increasing involvement in TCs. YEA has continued to excel at presenting virtual events and successfully presented 6 webinars.
- 25. 2021 Spring YLW was successfully held virtually on April 16-18, 2021 with 25 attendees. The YEA Leadership Webinar was held June 24<sup>th</sup> with 75 participants maximum.
- 26. ASHRAE and CIBSE are currently working together to co-host a YEA Leadership Digital event in October 2021. The maximum number of participants will be 100. Registration will open soon.

August 2, 2021  
Date

  
Chair