



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

**Thursday, July 1, 2021**

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

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Thursday, July 1, 2021

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**PRINCIPAL APPROVED MOTIONS**

Board of Directors Meeting

Thursday, July 1, 2021

No. - Pg.	Motion
1 - 3	<p>The following motions be approved via a consent agenda:</p> <ul style="list-style-type: none"> <li>○ That Oakbridge Partners, Ltd. be approved as ASHRAE investment advisor for fiscal year 2021-2022.</li> <li>○ That Jones &amp; Kolb be approved as ASHRAE Certified Public Accountant for fiscal year 2021-2022.</li> <li>○ That the appropriate and required bank resolutions for institutions in which ASHRAE funds are deposited as executed by officers for fiscal year 2021-22 be approved.</li> <li>○ That McGuire Woods be approved as the Society’s law firm of record for the fiscal year 2021-2022.</li> </ul>
2 - 4	<p>Members Council recommends to the Board of Directors that ROB 2.402 Government Affairs, be revised as shown below. (<del>strike through</del> = deletion; <u>double underline</u> = addition)</p> <p><b>2.402.002 MEMBERSHIP</b></p> <p>2.402.002.2 Qualifications</p> <p>A. <del>Either the chair or the Vice Chair of the committee shall have ASHRAE Executive Committee experience. 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 professional background in government affairs or advocacy.</del></p> <p>B. <del>One at large member shall have professional background in government affairs or advocacy. At least one at large member shall be a Presidential Member.</del></p> <p><del>C.</del> <u>B.</u> All members of the committee shall hold Member grade or higher in ASHRAE.</p> <p><del>D.</del> <u>C.</u> Committee members should have broad knowledge and experience with the organization, activities, and policies of both ASHRAE and government.</p> <p><b>2.402.003 OPERATION</b></p> <p>2.402.003.2</p> <p>C. Providing tools to train and enable Chapters and Chapter members to effect positive interactions with government <u>and other public entities.</u></p> <p>2.402.003.4</p> <p>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.</p>

	<p>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.</p> <p>This Committee shall support the development of <del>CRC-Grassroots</del> government affairs activities sessions at the CRCs by:</p> <p>A. Providing materials and qualified trainers for <del>CRC-Grassroots-Public Policy-Government Affairs</del> Workshops.</p> <p>B. Reporting of PAOE.</p>
3 - 5	<p>Members Council recommends to the Board of Directors that ROB 2.411.003.4 Board-Approved Awards Not Named for Individuals, be revised as shown below.</p> <p><u>T.</u> <u><a href="#">The Achievements in Residential Buildings Award is established to recognize excellence in volunteer service focused on Residential Building issues.</a></u></p>
4 - 5	<p>Members Council recommends to the Board of Directors that \$10,000 be approved to create a virtual career fair.</p>
5 - 7	<p>The following be considered as a consent motion</p> <ul style="list-style-type: none"> <li>o Standards Committee recommends that BSR/ASHRAE Addendum o (<i>Daylighting Control Wattage Threshold Reduction</i>) to ANSI/ASHRAE/IES Standard 90.1-2019, <i>Standard for Buildings Except Low-Rise Residential Buildings</i>, be approved for publication.</li> <li>o Standards Committee recommends that BSR/ASHRAE Addendum u (<i>Section 11.5.2 Economizer and Capacity Changes</i>) to ANSI/ASHRAE/IES Standard 90.1-2019, <i>Standard for Buildings Except Low-Rise Residential Buildings</i>, be approved for publication.</li> <li>o Standards Committee recommends that BSR/ASHRAE Addendum v (<i>App G and Section 11 Reporting</i>) to ANSI/ASHRAE/IES Standard 90.1-2019, <i>Standard for Buildings Except Low-Rise Residential Buildings</i>, be approved for publication.</li> </ul>
6 - 8	<p>Standards Committee recommends that the following Title, Purpose and Scope (TPS) be approved and that a new guideline project committee be formed:</p> <p><b>TITLE:</b> Measurement of Whole Building Performance for Occupied Buildings Except Low-Rise Residential Buildings</p> <p><b>1. PURPOSE:</b> The purpose of this document is to provide guidelines for reliably measuring whole building performance pertaining to occupied buildings, except low-rise residential buildings.</p> <p><b>2. SCOPE:</b> This document provides procedures for measuring whole building performance pertaining to all occupied buildings except low-rise residential buildings, including energy, water and indoor environmental quality (IEQ).</p>

	<p><b>2.1. What Is Included.</b> The procedures include:</p> <ul style="list-style-type: none"> <li>a. IEQ (thermal comfort, indoor air quality, lighting, and acoustics);</li> <li>b. energy, water, and on-site renewables;</li> <li>c. occupant behaviors;</li> <li>d. metrics, measurement methods (including data integrity), and benchmarking/evaluation methods;</li> <li>e. multiple levels of measurements (accuracy/complexity); and</li> <li>f. all types of occupied buildings except low-rise residential buildings.</li> </ul> <p><b>2.2 What Is not Included.</b> The procedures do not include:</p> <ul style="list-style-type: none"> <li>a. carbon metrics;</li> <li>b. rating methods; or</li> <li>c. quantitative measurement cost.</li> </ul>
7 - 8	<p>Society Rules Committee recommends to the BOD that ROB Section 1.100.002.4 Manuals and Procedures and Section 1.100.002.5 Reference Manual be revised as below:</p> <p>1.100.002.4       Manuals of Procedures  <u>The Manual of Procedures (MOP) of a council or committee is a document developed within the council or committee to describe the assigned methods and procedures, duties, and responsibilities of by which the council or committee and its members accomplishes the duties and responsibilities assigned to it.</u> The <del>manual</del> MOP is an internal document of the council or committee for its own guidance. <del>It also describes the responsibilities of assigned members, subcommittee organization, and the procedure for revising rules and requires approval by the committee or council and the next higher body.</del></p> <p>1.100.002.5       Reference Manual  <del>1.100.002.5.1 Each council or committee may establish a</del> Reference Manual, <del>which may contain</del> guidelines, procedures, sample documents and other tools that the council or committee uses in its day-to-day operation. The Reference Manual ensures consistency in the operation of the council or committee and serves as an educational tool for new members. The Reference Manual is an internal document of the council or committee and <del>only</del> requires the approval of <del>that the</del> council or committee <del>only</del>.</p> <p><u>Along with the Reference manual, other reference material that may be used by other committees or by members of the committee or council should be placed in the online storage used by the Society for access by members and for historical purposes.</u></p>
8 - 9	<p>Society Rules Committee recommends to the BOD that the chart in ROB Section 1.201.022.1 titled <i>Society Contact Data Availability</i> be removed.</p>
9 - 10	<p>The Nominating Committee recommends creation of a ‘Nominating Process Subcommittee.’</p>

## ACTION ITEMS

Board of Directors Meeting

Thursday, July 1, 2021

No. - Pg.	Responsibility	Summary of Action	Status	Goal Date
1 - 3	Littleton	Research metrics on international attendance and participation for the Virtual Annual Conference and distribute to the BOD for review.		
2 - 6	Hermans, Sill, Zentz, Rakheja	Serve on a BOD Task Group that will investigate ways to better serve members who are in the operations and maintenance sector of the industry. During the investigation the goal of increasing membership from this group should be a primary focus.		
3 - 14	Gagnon, Khankari, Fulk, Sepulveda	Work with Sheila Hayter as a BOD Working Group to develop one slide or a one-page document for the fall CRCs, laying out the visioning aspect of strategic planning and what input the BOD is requesting from Chapter members regarding their vision for the Society.		
4 - 15	Scoggins, Gray, Macauley, Crawley, Khankari, Mehboob	Work with Sheila Hayter to develop a list of Society vision topics, to focus on big picture, long range thinking. To be discussed by the BOD at the August meeting.		August 2021
5 - 17	Council Chairs and Vice Chairs	Work with each of their reporting committees to review the rules of their committees to determine which rules should be changed or eliminated. The goal is to streamline and eliminate rules that are causing unnecessary roadblocks or causing waste.		
6 - 17	Brandt	Work with SRC to determine which rules related to BOD processes should be changed or eliminated.		
7 - 17	All Members	Send one suggestion for BOD structure streamlining to Candace DeVaughn by the third week of July, for discussion at the August BOD meeting.		July 2021
8 - 18	Bryant, Giesler, Zentz, Fulk, Mittal, Macauley, Maston	Develop five to six slides (with a short script) summarizing streamlining recommendations discussed by the BOD for use at the Fall 2021 CRCs.		



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

Thursday, July 1, 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  
Apichit Lumlertpongpana, Region XIII DRC  
Andres Sepulveda, Region XIV DRC  
Richie Mittal, RAL DRC  
Wade Conlan, DAL  
Dru Crawley, DAL  
Ken Fulk, DAL  
Art Giesler, DAL  
Jaap Hogeling, DAL  
Kishor Khankari, DAL  
Adrienne Thomle, DAL  
Ashish Rakheja, DAL

**GUESTS PRESENT:**

Costas Balaras  
Doug Cochrane  
Don Colliver  
John Constantinide  
Chris Balbach  
Trent Hunt  
Jeff Clarke  
Krishnan Viswanath  
Sheila Hayter

Darryl Boyce  
Van Baxter  
Dan Rogers  
Tom Phoenix  
Katherine Hammack  
Bill McQuade  
Ahmed Alaa Eldin  
Heather Schopplein  
Nitin Naik

Aakash Patel  
Chad Smith  
Chandra Sekhar  
Chuck Gullledge  
Daniel Rogers  
Fabio Clavijo  
Gen Lussier  
Jonathan Smith  
Russell Lavitt

**STAFF PRESENT:**

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

Lilas Pratt, Manager - Special Projects  
Vickie Grant, Manager - Region Activities  
Dustin Mason, Development Manager  
Tanisha Meyers-Lisle, Procedures Administrator  
Mary Kate McGowan, Managing Editor - Journal  
Emily Porcari, Manager - Codes  
Tony Giometti, Sr. Mgr. - Conference Programs

**CALL TO ORDER**

Mr. Schwedler called the meeting to order at 7:30 am.

**CODE OF ETHICS**

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

**REPORT ON SPRING 2021 MEMBER BALLOT**

Mr. Littleton reported that there were two items on the ballot - the election of officers and directors and a proposed Bylaws change.

All of our new officers and directors have been affirmed by overwhelming majority. Congratulations to all the new officers and directors and thank you for the time you invest to lead the BOD.

The proposed Bylaws change would change the term 'Member' - indicating a full dues paying Member - to 'Full Member.' A Bylaws change requires that 2/3 of those members voting approve the change. The 2/3 requirement has been met and those Bylaws are deemed to be approved will be updated accordingly.

The spring 2021 member ballot results are now considered official.

**CLOSING THE MEETING OF THE MEMBERS**

Mr. Gulledge asked if there was any additional business to come before the assembly. Hearing none, he declared the Annual Meeting adjourned.

Mr. Gulledge was applauded and thanked. He expressed that it was his honor to serve ASHRAE.

**ROLL CALL/INTRODUCTIONS**

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

**MEETING PROCEDURES**

Mr. Schwedler reviewed meeting procedures.

**REVIEW OF MEETING AGENDA**

Mr. Schwedler reviewed the meeting agenda. There were no changes or additions.

**OPEN SESSION - ADDRESSES TO THE BOARD OF DIRECTORS**

Ms. Scoggins read the comment into record. The comment is included in ATTACHMENT A.

Mr. Schwedler reported that staff is in the process of working with this member and he clarified that the member reached out to a vendor and not ASHRAE Staff.

**REPORTS OF 2021 VIRTUAL ANNUAL CONFERENCE****CONFERENCE REGISTRATION AND ACTIVITY UPDATE**

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



He reported on several new activities conducted at the Annual Conference - a research summit was added to the program; an innovative badge program was also added that allowed attendees to earn badges and prizes; there were no live Q&A sessions for the live seminars.

Mr. Littleton reported that total registrations were down. Several reasons for lower registrations were offered - only four and a half months between the Winter and Annual Conference; virtual conference fatigue; virtual sessions can be accessed for 18 months past the live event; people seem to be waiting until the last minute to register in the virtual world.

Mr. Littleton reported that he was not aware of any new complaints on the virtual conference platform. Overall, most people were pretty satisfied with the platform and organization of the virtual conference. He reported that staff does not feel this is an issue that has hindered attendance.

Ms. Abrams reported that every now and then someone will report an issue with the platform that turns out not to be an issue. She applauded the members and staff who have helped to monitor all the sessions and who helped to follow up with attendees reporting issues.

Mr. Mittal asked for metrics on international participation. He stated that for Region XIII, the timing of many meetings was late at night and into the early morning.

Mr. Littleton stated that information on international participation was not currently available.

Staff will research metrics on international attendance and participation for the Virtual Annual Conference and distribute to the BOD for review.

**AI - 1**

### **CONSENT MOTIONS**

Mr. Schwedler reported that some of these motions were discussed in various committees but did not come forward as motions so the BOD needs to review and vote on these motions.

Mr. Khankari moved and Mr. Gagnon seconded that

1. The following motions be approved via a consent agenda:
  - o That Oakbridge Partners, Ltd. be approved as ASHRAE investment advisor for fiscal year 2021-2022.
  - o That Jones & Kolb be approved as ASHRAE Certified Public Accountant for fiscal year 2021-2022.
  - o That the appropriate and required bank resolutions for institutions in which ASHRAE funds are deposited as executed by officers for fiscal year 2021-22 be approved.
  - o That McGuire Woods be approved as the Society's law firm of record for the fiscal year 2021-2022.

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

### **CONFIRMATION OF 2021-22 APPOINTMENTS AND BOARD ELECTED POSITIONS**

Mr. Schwedler reported that this information is provided for the BOD's information. The appointments presented are the latest appointments.

### ASSIGNMENT OF 2021-22 BOD MENTORS

Mr. Schwedler reported that mentor assignments were distributed previously. He stated that mentors were assigned to allow for cross training. New BOD members are welcome to reach out to anyone but having a mentor means they have a specific person to reach out to throughout the year.

### EXECUTIVE COMMITTEE REPORT

#### **JUNE 25, 2021**

Mr. Schwedler reported that ExCom had no recommendations for the BOD's consideration. He reviewed the information items.

### COUNCIL REPORTS

#### **MEMBERS COUNCIL**

Mr. Mehboob reported.

Mr. Mehboob moved that

2. Members Council recommends to the Board of Directors that ROB 2.402 Government Affairs, be revised as shown below. (~~strike through~~ = deletion; double underline = addition)

#### **2.402.002 MEMBERSHIP**

##### 2.402.002.2 Qualifications

- A. ~~Either the chair or the Vice Chair of the committee shall have ASHRAE Executive Committee experience. 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 professional background in government affairs or advocacy.~~
- ~~B. One at large member shall have professional background in government affairs or advocacy. At least one at large member 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.

#### **2.402.003 OPERATION**

##### 2.402.003.2

- C. Providing tools to train and enable Chapters and Chapter members to effect positive interactions with government and other public entities.

##### 2.402.003.4

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.

Mr. Mehboob stated that the intent of the motion is to widen the circle. The recommendation passed GAC and Members Council unanimously.

Mr. Schwedler stated that the rules, as currently written, require that either the chair or vice chair has to be a Presidential Member. Oftentimes, a Presidential Member has to be brought in who does not have previous experience on the committee. The proposed change allows a Presidential Member to be one of the at-large positions, which opens up the chair and/or vice chair position to someone who is not a Presidential Member, or perhaps has not even served on the BOD. The recommendation opens membership up to a broader range of members to serve in all positions.

**MOTION 2 PASSED (UNANIMOUS VOICE VOTE, CNV).**

Mr. Mehboob moved that

3. Members Council recommends to the Board of Directors that ROB 2.411.003.4 Board-Approved Awards Not Named for Individuals, be revised as shown below.

T. The Achievements in Residential Buildings Award is established to recognize excellence in volunteer service focused on Residential Building issues.

Mr. Mehboob stated that this recommendation comes from RBC and was approved unanimously by H&A and Members Council. The award would be presented during the RBC meeting at the Winter Conference. The fiscal impact is approximately \$50.

Ms. Thomle spoke in favor of the motion. She stated that the new award would be a way for RBC to become more active and play a larger role in Society.

**MOTION 3 PASSED (Unanimous Voice Vote, CNV).**

Mr. Mehboob moved that

4. Members Council recommends to the Board of Directors that \$10,000 be approved to create a virtual career fair.

Mr. Mehboob reported that the recommendation would bring in about \$9,000 and would offset the startup costs. The maximum number of exhibitors would be 800 and each exhibitor would be charged up to \$500. The break-even point is 38 exhibitors.

He reported that there would be promotional video opportunities as well. All revenue from the event would come to Society.

**MOTION 4 PASSED (Unanimous Voice Vote, CNV).**

Mr. Mehboob reported that Members Council approved a motion to charter the Alexandria Chapter in Egypt, bringing the total number of chapters to 199.

He reported that 17 new student branches were approved as well.

Mr. Glesne asked about the split vote in Members Council regarding the new Alexandria Chapter.

Mr. Mehboob stated that among those that voted against the chapter, there was a feeling that it should be a section first.

Mr. Schwedler stated that there was also concern that members would leave the Pyramids Chapter to join the Alexandria Chapter.

Mr. Mehboob responded that some members did leave but it was a small number.

Mr. Gray stated that he asked a similar question because he was concerned that there was almost a split vote on chartering a chapter. He stated that this vote highlights something that Members Council needs to look into and that the requirements for chartering a new chapter may need to be reviewed.

Mr. Zentz expressed concern at the close vote to approve the new chapter. He also expressed concern that a new chapter was not a section before becoming a chapter and that potential members of the new chapter would be coming from an existing chapter.

Mr. Giesler expressed concern that a 2/3 majority vote is not required to establish a new chapter. He stated his opinion that Members Council needs to be involved with this new chapter in order for it to be a success.

**PUBLISHING AND EDUCATION COUNCIL**

Mr. Brandt reported. The council had 27 action items following this meeting. He reported that there was a discussion on the current structure of the council; after being under the structure for a year there are recommendations to streamline further.

He reported that all members have been encouraged to look at ways to create products around the ETF and Decarbonization Task Force.

Mr. Brandt reported that the OPMP certification will be retired. There were only nine (9) people who took the exam in the previous Society year. CHD has been a tremendous success and the study guide has been a great help. The goal is to have study guides for all certification programs to assist those taking the tests.

He reported that everyone is looking forward to getting back to in-person trainings for HVAC Essentials. Virtual trainings will continue to be offered as well.

He reported that there was a discussion on how to more widely influence the building operations and building operator's sector.

Mr. Hermans, Mr. Sill, Mr. Zentz, and Mr. Rakheja volunteered to serve on a BOD Task Group that will investigate ways to better serve members who are in the operations and maintenance sector of the

industry. During this investigation the goal of increasing membership from this group should be a primary focus.

### **TECHNOLOGY COUNCIL**

Mr. McGinn reported.

He stated that the publication motions presented below are addenda that have unresolved objectors, negative project committee votes with reason, or a threat of legal action. These motions are preceded by formally voted recommendations from the project committees and Standards Committee. The rules do not require a vote from Technology Council. Appeals procedures allow for consideration of an appeal of a BOD standards action or inaction only if the negative vote or unresolved comment is based solely upon procedural grounds. A reminder to Board members - members are to review these motions for adherence to ASHRAE's Procedures for Standards Actions (PASA) and ANSI Essential Requirements and not technical content. If the BOD disapproves a Standards Committee Document for publication, please minute the detailed reason(s) for the record.

A summary of any unresolved commenters and/or negative project committee votes on these publication drafts is included in the analysis sheets that were distributed prior to the meeting. By default, all Standards Committee Documents will be processed by our ANSI Audited Designator procedures unless otherwise indicated by the Board. In all cases, the fiscal impact for publication drafts is within existing budgets.

The first three consent motions have unresolved commenters or negative project committee votes but no negative votes by Standards Committee. The reasons for the negative votes were technical in nature with no alleged process violations subject to appeal. Please refer to the analysis sheets for the full detail on the reasons for negative votes and/or unresolved commenters and a summary of Project Committee responses that were distributed prior to the meeting.

Mr. McGinn moved that

5. The following be considered as a consent motion

- Standards Committee recommends that BSR/ASHRAE Addendum *o (Daylighting Control Wattage Threshold Reduction)* to ANSI/ASHRAE/IES Standard 90.1-2019, *Standard for Buildings Except Low-Rise Residential Buildings*, be approved for publication.
- Standards Committee recommends that BSR/ASHRAE Addendum *u (Section 11.5.2 Economizer and Capacity Changes)* to ANSI/ASHRAE/IES Standard 90.1-2019, *Standard for Buildings Except Low-Rise Residential Buildings*, be approved for publication.
- Standards Committee recommends that BSR/ASHRAE Addendum *v (App G and Section 11 Reporting)* to ANSI/ASHRAE/IES Standard 90.1-2019, *Standard for Buildings Except Low-Rise Residential Buildings*, be approved for publication.

**MOTION 5 PASSED (Unanimous Voice Vote, CNV).** Mr. Hermans abstained.

Mr. McGinn moved that

- 6.** Standards Committee recommends that the following Title, Purpose and Scope (TPS) be approved and that a new guideline project committee be formed:

**TITLE:** Measurement of Whole Building Performance for Occupied Buildings Except Low-Rise Residential Buildings

**1. PURPOSE:**

The purpose of this document is to provide guidelines for reliably measuring whole building performance pertaining to occupied buildings, except low-rise residential buildings.

**2. SCOPE:**

This document provides procedures for measuring whole building performance pertaining to all occupied buildings except low-rise residential buildings, including energy, water and indoor environmental quality (IEQ).

**2.1. What Is Included.** The procedures include:

- a. IEQ (thermal comfort, indoor air quality, lighting, and acoustics);
- b. energy, water, and on-site renewables;
- c. occupant behaviors;
- d. metrics, measurement methods (including data integrity), and benchmarking/evaluation methods;
- e. multiple levels of measurements (accuracy/complexity); and
- f. all types of occupied buildings except low-rise residential buildings.

**2.2 What Is not Included.** The procedures do not include:

- a. carbon metrics;
- b. rating methods; or
- c. quantitative measurement cost.

**MOTION 6 PASSED (Unanimous Voice Vote, CNV).** Mr. Conlan abstained.

Mr. McGinn reviewed the council's information items.

**STANDING COMMITTEE REPORTS**

**SOCIETY RULES COMMITTEE**

Mr. Fulk reported.

Mr. Fulk moved that

- 7.** Society Rules Committee recommends to the BOD that ROB Section 1.100.002.4 Manuals and Procedures and Section 1.100.002.5 Reference Manual be revised as below:

#### 1.100.002.4 Manuals of Procedures

~~The Manual of Procedures (MOP) of a council or committee is a document developed within the council or committee to describe the assigned methods and procedures, duties, and responsibilities of by which the council or committee and its members accomplishes the duties and responsibilities assigned to it. The manual MOP is an internal document of the council or committee for its own guidance. It also describes the responsibilities of assigned members, subcommittee organization, and the procedure for revising rules and requires approval by the committee or council and the next higher body.~~

#### 1.100.002.5 Reference Manual

~~1.100.002.5.1 Each council or committee may establish a Reference Manual, which may contain guidelines, procedures, sample documents and other tools that the council or committee uses in its day-to-day operation. The Reference Manual ensures consistency in the operation of the council or committee and serves as an educational tool for new members. The Reference Manual is an internal document of the council or committee and only requires the approval of that the council or committee only.~~

~~Along with the Reference manual, other reference material that may be used by other committees or by members of the committee or council should be placed in the online storage used by the Society for access by members and for historical purposes.~~

Mr. Fulk stated that the proposed edits are SRC's attempt to provide guidance to councils and committees.

#### **MOTION 7 PASSED (Unanimous Voice Vote, CNV).**

Mr. Fulk moved that

8. Society Rules Committee recommends to the BOD that the chart in ROB Section 1.201.022.1 titled *Society Contact Data Availability* be removed.

Mr. Fulk stated that the chart recommended for removal is a 16-year-old document that SRC feels is not needed in the ROB. The Member Services team agrees that the information in the chart can be handled outside the ROB.

#### **MOTION 8 PASSED (Unanimous Voice Vote, CNV).**

Mr. Fulk reported that SRC looked at simplified rules of order in lieu of Robert's Rules of Order. The committee's recommendation, in draft form, was included as an attachment to the ExCom report. SRC asked ExCom to provide feedback on the draft recommendation and that feedback will be used in finalizing the committee's recommendation. SRC recommends training if the new rules are adopted.

Mr. Schwedler encouraged members of the BOD to review the draft recommendations and provide feedback to SRC.

#### **PLANNING COMMITTEE**

Ms. Maston reported that the committee had no recommendations for the BOD, only information items.

She reported that per the BOD's direction, a midterm updated to the Strategic Plan will be done over the next six months; the intent is to have the update ready for the Winter Conference.

Mr. Hunt expressed his thanks to Ms. Maston for her hard work and leadership.

#### **DEVELOPMENT COMMITTEE**

Mr. Rogers reported that the committee had no recommendations for the BOD, only information items. Mr. Rogers reviewed the committee's action items.

Ms. Mitchell reported that the RP campaign concluded last night. The RP goal was the same as it was the previous year, \$2.6 million. She reported that the campaign did not reach its goal but it finished 8.5% higher than what was reached last year for a total of almost \$2.3 million. She stated that campaign results are quite an accomplishment for having taken place during the pandemic.

#### **BUILDING EQ COMMITTEE**

Mr. Constantinide reported. He reviewed the committee's presentation and report.

Mr. Schwedler stated that austerity measures were placed on the committee this Society year; some groups would have decided to just fold but under Mr. Constantinide's leadership and the commitment of the members, the committee has done an outstanding job. He commended Mr. Constantinide and the entire committee. He stated that this is great to see from a Society standpoint.

Ms. Maston stated that the committee has done a fabulous job and literally made the best effort possible.

#### **NOMINATING COMMITTEE**

Mr. Boyce reported.

Mr. Boyce moved and Mr. Macauley seconded that

9. The Nominating Committee recommends creation of a 'Nominating Process Subcommittee.'

Mr. Hermans spoke in favor of the motion and asked how this group would be different from others formed in the past.

Mr. Boyce responded that if approved, this would be an ongoing group.

Mr. Mehboob stated that Nominating is the only group that reports to the membership and not the BOD. He stated his opinion that the committee should be empowered to make this decision.

Ms. Jensen spoke in favor of the motion. She stated that these issues have come before Members Council a number of times in the past and she applauded the committee for taking on these issues directly. She thanked the committee leadership for taking this step.

Mr. Giesler spoke in favor of the motion. He stated his opinion that this recommendation did not need to come before the BOD.

Ms. Maston spoke in favor of the motion. She stated that lots of comments on the nominating process were received during the recent streamlining effort.



**MOTION 9 PASSED (Unanimous Voice Vote, CNV).**

Mr. Boyce reviewed the committee's action items.

**PRESIDENTIAL AD HOC COMMITTEE AND TASK GROUP REPORTS****TASK FORCE FOR BUILDING DECARBONIZATION**

Mr. Colliver and Mr. Phoenix reported.

It was reported that the task force began in March. The group meets on the first and third Tuesday of each month and has met nine times since March.

The task force has been looking at 'key areas for concern,' and from that has developed nine working groups with over 100 people total.

It was reported that a PD committee has been approved and that group is moving forward.

The task force's webpage is up and staff was thanked for their assistance in getting that completed.

It was reported that a seminar was conducted the day before, with good attendance. During the seminar there was a slide on how TCs can help the work of the task force. The task force is taking steps to involve the TCs as much as possible.

Mr. Hermans requested that an update on the task force's work be provided to TAC as well.

Mr. Schwedler commended Mr. Gullledge for organizing this task force.

It was reported that the task force is made up of a good group of people who are excited to work on this effort. It was stated that it is great to work with people that have such 'can do' attitudes.

**DIVERSITY TASK GROUP**

Mr. McGinn reported. He encouraged all new BOD members to read the report from January.

He reported that the group has been meeting regularly to advance the recommendations from January. Mr. McGinn met with the BOD DEI Advisory Subcommittee and has passed on all relevant information, reviewed MBOs, and passed on ongoing action items.

Mr. Gagnon asked if it would be helpful to include a YEA member in the new subcommittee as well.

Mr. Sepulveda responded that the subcommittee has a very challenging task assigned to them. He expressed his feeling that DEI culture needs to be implemented in Society and he stated that all are welcome and the group is counting on their support.

Mr. Schwedler reported that DEI initiatives are front and center in the presidential address. He stated that there has been pushback in the past that some members like things the way they are; but it isn't just one or the other, it is the entire talents of our global community and industry.

**TRANSFORMATION AD HOC**

Mr. Mehboob reported that there is nothing new to report at this time.

**EPIDEMIC TASK FORCE**

Mr. Conlan reported that the task force has no recommendations for the BOD to consider. He reviewed the task force's information items.

Mr. Khankari thanked and congratulated the ETF for their work and contributions.

Mr. Schwedler asked Mr. Conlan to communicate the BOD's grateful and gracious thanks to the task force. He stated that through the work of more than 130 volunteers, the ETF has made an impact on everyone in the world; the group has given people information they needed when they needed it. He stated that before other bodies were willing to make calls, the ETF decided to move things forward and they were integral in keeping people healthy.

He stated that these were tragic circumstances, but the work of the group has been extraordinary and they have had a global impact.

Mr. Zentz stated that the work done by the ETF to create three one-page PDFs on reopening buildings is probably one of the greatest things he has seen ASHRAE do, and the group made a huge difference.

**HEADQUARTERS BUILDING AD HOC**

Ms. Scoggins reported. She reported that the ad hoc is wrapping up their efforts on the construction project. She reported that some equipment warranties are ending in October and the group is working to get some items addressed before then.

The PV has a projected completion date of April.

Ms. Scoggins reported that Mr. McGinn is rolling off the ad hoc. She expressed her thanks to him, stating that he was instrumental in developing the OPR and that his knowledge has been incredibly helpful.

She stated that this has been one of her favorite assignments. Ms. Scoggins thanked the Development team and all of the donors.

Ms. Scoggins reported that the group is working through additional commissioning items. SKANSKA is also dealing with warranty issues. All commissioning items should be cleared up before the end of August.

Mr. Sepulveda stated that the industry will appreciate a training course based on how the new HQ was built and is operated.

Mr. Schwedler stated that this group, led by Ms. Scoggins, has dedicated an awful amount of time and brain power. He expressed high accommodations to Ms. Scoggins and the entire ad hoc. He stated that the new HQ is a very fine space that will serve our members.

Ms. Scoggins was asked about carbon usage at HQ. She reported that there is no gas usage in the building but there are other carbon issues that can be addressed. She stated that the ad hoc has not discussed carbon usage recently.

**VISION 2030 AD HOC**

Ms. Hayter reported. The full presentation is included in ATTACHMENT C.

Ms. Hayter reported that this is the final report from the ad hoc. The group was formed as a joint ad hoc at the end of the 2019-20 Society year under Mr. Boyce and Mr. Gullledge. The ad hoc has existed for exactly one year.

The ad hoc was charged to define how buildings of the future will be designed, constructed, and operated, and provide recommendations to position our members as leaders.

Ms. Hayter presented the ad hoc's recommendations:

- Recommend that a vision ad hoc for the new Society Year be created. The new ad hoc should be focused on implementation within Society so that it becomes a normal part of our discussion. The new ad hoc should be thinking about what our members need.
- Believe that the BOD should take responsibility for ensuring that the vision is occurring throughout Society. This would show top level commitment to making sure that ASHRAE is positioned to be a leader and would ensure that the rest of the organization will follow.
- Engage Planning in ongoing vision discussions.
- Nurture vision discussions within the councils.

Mr. Schwedler stated that ad hoc's recommendations are now before the BOD.

Mr. Khankari stated that he was excited to hear the presentation. He stated that it is important that the BOD truly walks the talk and motivates our members to be a part of this vision and perform some action.

Ms. Scoggins stated that the work of the ad hoc was fantastic and very exciting.

Mr. Hermans stated that Vision 2010 set a goal of implementing a goal of 30% improvement of 90.1. He stated that he is trying to grasp what the new vision and elevator speech will be.

Ms. Hayter responded that there will be few to no silos between the various sets of professionals involved in design and operation of a building - it will be one seamless process. The built environment is going to be safe and healthy with a strong emphasis on resiliency and wellness. She reported that the group is working on the elevator speech.

Mr. Crawley added that the theme of digitalization helps to break down silos and increase transparency and openness.

Mr. Abellon stated that it is great to see this work and he is looking forward to seeing these recommendations implemented.

Mr. Sekhar stated that it was fantastic to work under Ms. Hayter's leadership. The group had several interesting discussions.

Mr. Rakheja stated that he endorsed having BOD members involved for longer periods of time.

Mr. Smith thanked the ad hoc for their work and he stated that he was glad to see it. He expressed concern that there seemed to be a lack of younger members on the ad hoc, especially since the group is talking about the future. He stated that there were many members involved who may not be working in 2030 and that members under 25 would add useful information.

Mr. Hogeling stated he hopes to see more forward-looking presentations in the upcoming conferences.

Ms. Maston stated that there has been an issue with the formation of ad hocs that operate parallel but without engaging the groups they are affecting. She stated that the information presented is great, but as the Chair of Planning she reported that the committee did not know what the ad hoc was doing until halfway through the Society year. She stated her opinion that as Society moves into implementation, the ad hoc structure may not be the best way to accomplish goals moving forward.

Mr. Gray expressed his excitement and appreciation at being part of the ad hoc. He stated that he agreed with Ms. Maston that there is a disconnect between other parts of Society and what we do next. He suggested that this work be used to think how Society can evolve. He recommended that Society point out very specific areas to evolve and dedicate resources to; this should be a strategic move of the BOD.

Ms. Jensen stated that she hoped there would be discussion on integration of systems.

Ms. Hayter stated that she was glad to hear so much agreement that coordination is important. She recommended having another ad hoc to focus on how to get that conversation started and determining which groups should be involved in the coordination. If this is assigned to an existing group, it could become buried in the work they already have going on. Ms. Hayter suggested a long-range planning subcommittee that helps to inform the Strategic Plan.

Mr. Schwedler asked the BOD to share ideas of how to communicate this work at the CRCs.

Mr. Gray suggested that a one-page document be developed that can be shared at every CRC to every attendee.

Mr. Gagnon suggested that a one or two-page document be incorporated into workshops and work sessions.

Mr. Zentz suggested that a vision report be requested during each chapter report.

Mr. Hogeling suggested a series of videos, stating that this is not something that can be put into one page.

Ms. Bryant stated that putting videos together in under three weeks may be a huge ask for staff. She stated that a one-page document may not be the best option, but it allows members to have the discussion.

Ms. Schwedler stated that he did not want to lose momentum on this item and asked Ms. Hayter to work with a few members from the BOD to develop one slide or a one-page document to share at the CRCs.

Mr. Gagnon, Mr. Khankari, Mr. Fulk, and Mr. Sepulveda will work with Ms. Hayter as a BOD Working Group to develop one slide or a one-page document for the fall CRCs, laying out the visioning aspect of

strategic planning and what input the BOD is requesting from Chapter members regarding their vision for the Society.

Ms. Scoggins, Mr. Gray, Mr. Macauley, Mr. Crawley, Mr. Khankari, and Mr. Mehboob will work with Ms. Hayter to develop a list of Society vision topics, to focus on big picture, long range thinking. To be discussed by the BOD at the August meeting.

AI - 4

Ms. Hayter thanked the members of the ad hoc and the subgroup leads for all their work. She stated that this was a great team to work with, comprised of big picture thinkers who could communicate vision in a way that allowed it to be presented here today. She thanked the BOD for their input and participation.

#### **ANNUAL EVP (iEVP) DESIGNATION**

Mr. Schwedler stated that there is not currently a succession plan in place if something catastrophic happens to Mr. Littleton or if he plans to retire. Mr. Boyce and his team put together a success plan; one component of the plan is to name the iEVP annually and determine who should make that decision.

Mr. Boyce reported that the group had regular meetings where they looked at various scenarios. The group found that there are a number of processes that need to be put in place; one of the key elements is the designation of the iEVP so the Society can transition to interim leadership. He stated that the iEVP would be announced on an annual basis.

Mr. Mehboob stated that Mr. Boyce and his team did a phenomenal job. He recommended that the annual iEVP designation be made by the President of the Society; while the BOD does make decisions on complex matters, the iEVP designation is purely an HR decision and there is no reason to involve a bigger group.

Mr. Hermans asked if an annual designation was necessary and suggested permanently appointing the HR Manager as the iEVP.

Mr. Giesler stated that having one person lined up may not be enough. He recommended that more than one person be assigned to make the annual designation. He also stated that the HR Manager is not involved in the business side of the Society.

Mr. Littleton stated that naming an interim iEVP would be similar to the consent motions that are considered at the first BOD meeting each Society year. He expressed that having an interim person named is important.

Ms. Scoggins expressed agreement with Mr. Mehboob stating that the President can make this decision if and when an iEVP is needed in a catastrophic situation. She stated that the bigger discussion is retirement, as she does not feel that another staff member is being groomed to replace Mr. Littleton when he decides to retire.

Mr. Gagnon stated that a second in command should be named and that this designation should be made at the executive level.

Mr. Fulk stated that there are two issues at play - one is long-term planning and the other is planning in case of an emergency. He suggested that a succession pool be named, from which an iEVP could be

named. He stated that he is comfortable giving decision making authority to the President in an emergency situation.

Mr. Brandt suggested that the decision should be made by ExCom. By the time members get to ExCom they know staff well and can make an informed decision.

Ms. Thomle suggested that a committee of immediate past Presidents, the President-Elect, President, and Treasurer select the iEVP.

Mr. Boyce stated that the iEVP designation would allow one of the staff directors to think about what is going on in a broader context, understand how Society operates, and be more properly prepared to be an EVP applicant.

It was stated that having an iEVP named in advance of the Society year is important for continuity and provides an opportunity for potential growth of staff.

It was determined that this item would be discussed and decided by ExCom at their upcoming meeting.

### **SOCIETY STREAMLINING NEXT STEPS**

#### **STREAMLINING NOW**

Mr. Schwedler stated that there was consensus that the BOD was in agreement with the spirit of the streamlining motions and asked for suggestions on how to move forward. He stated that the failed motions were a gut punch to the Streamlining Ad Hoc after investing so much time.

Mr. Schwedler asked the BOD for recommendations on how streamlining can begin now.

Mr. Gagnon suggested that decision making be brought down to the councils and DRC level.

Mr. Macauley suggested looking through the ROB to find opportunities to give decision making back to the councils and committees. He suggested that the councils be given a budget and be required to operate within that budget, allowing some of the financial decisions that would normally come before the BOD to be handled by the councils.

Mr. Gray suggested that the meeting agendas be examined more closely. He stated his opinion that 90% of the time committees and councils are providing updates and it takes up a significant amount of the BOD's time.

Mr. Hermans suggested that the agendas be more strategic; the onus would then be on BOD members to read the agenda and be advised and knowledgeable. He suggested that the regions be reorganized; in order to be truly global, Society needs to be less North and South American centric. He suggested no more than three or four regions in the Americas and expressed that he would like to see this effort begin right away.

Mr. Zentz stated that the BOD did not tell TAC or Pub Ed how to reorganize; he suggested that the BOD provide direction and goals and allow Members Council to take the lead on a reorganization plan for the BOD's approval.

Mr. Marek suggested that bottom-up streamlining be implemented.

Ms. Thomle suggested that bottom-up streamlining be implemented. She stated that the BOD should give direction to the councils on reorganization.

Mr. Giesler suggested that the regions be encouraged to start conducting multi-region CRCs and start building those relationships.

Mr. Gray stated that BOD members reading the agenda beforehand is important. Agenda control really determines the quality of the BOD meeting. He suggested that Members Council and the regions be asked to come up with a plan. He expressed concern over combining regions and losing representation on the BOD and stated that if there is a regional concern it should be addressed at the grassroots level.

Mr. Fulk suggested pushing decision making down to the committees and councils. He stated that there are things that are discussed at the BOD level that don't necessarily need to be. He suggested setting a maximum number of regions for Society; as the Society grows, the number of regions can remain the same and multiple regions can be assigned to zones, and CRCs could then be combined by zones as well.

Mr. Crawley stated that a lot of the material in the BOD agenda attachments is useful, but he was not sure if it all requires reporting. He suggested that if material does not require the attention of the BOD it should not be reported, and the councils should be empowered.

Ms. Maston expressed agreement with pushing decision making down to the councils. She suggested evaluating cross pollination of the councils, stating that there is not currently an effective method to address all of the councils at the same time and coordinate their efforts. She suggested a top-down approach. With a bottom-up approach, are the right people in the room? And how do you coordinate those efforts?

The Council Chairs and Vice Chairs will work with each of their reporting committees to review the rules of their committees to determine which rules should be changed or eliminated. The goal is to streamline and eliminate rules that are causing unnecessary roadblocks or causing waste.

**AI - 5**

Mr. Brandt will work with SRC to determine which rules related to BOD processes should be changed or eliminated.

**AI - 6**

All BOD members will send one suggestion for BOD structure streamlining to Candace DeVaughn by the third week of July, for discussion at the August BOD meeting.

**AI - 7**

## **BOARD STRUCTURE**

Mr. Mehboob stated that it must be recognized that there is a huge body of research that shows that any BODs greater than 15 people are already too big, and if an organization has an ExCom it means there is an oversized BOD; if a BOD is the right size there is no need for ExCom.

He stated that the BOD needs to be smaller. He stated that there are two ways to make the BOD smaller - have a fewer number of regions or group the regions into zones, allowing the regions to still exist as there is a cultural affinity for the regions. He expressed that buy in from the regions is important.

He suggested joint meetings between international and North American chapters to foster a greater sense of unity.

He suggested that reducing the number of regions be voluntary rather than forced. He stated that the streamlining plan was always to make the councils where the grassroots action is.

Mr. Gagnon stated that the action may be at Members Council, but the ultimate authority lies with the BOD. He expressed concern of a disconnect if the grassroots do not feel represented at the BOD level.

Mr. Abellon expressed concern that by reducing the size of the BOD the regions will not have a voice. He stated that BOD members need to remember that BOD members have a responsibility to act in the best interest of the society as a whole. He also acknowledged that BOD members have specific insights based on regional alliances. He suggested that zone leaders would be able to bring those same insights to the BOD.

Mr. Sepulveda stated that he does not think a disconnect would happen. He stated that BOD members need to be involved and have vision.

Mr. Khankari suggested that feedback needs to be solicited from the members. He suggested that the BOD focus on streamlining efforts that can take place at the BOD level.

Mr. Giesler stated that if changes are going to be made, it cannot be forced down the member's throats.

Mr. Schwedler stated that he would like to reappoint much of the Transformation Ad Hoc to continue their work. He stated that he would like there to be more BOD involvement and buy-in, including some members who voted against the streamlining motions. He stated that he plans to appoint a very small group to develop a presentation of five to six slides that the officers can present at the CRC if the DRC will allow it. The goal of the slides is to let the grassroots know what is being considered at the BOD.

Ms. Bryant, Mr. Giesler, Mr. Zentz, Mr. Fulk, Mr. Mittal, Mr. Macauley, and Ms. Maston will develop five to six slides (with a short script) summarizing streamlining recommendations discussed by the BOD, for use at the Fall 2021 CRCs.

**AI - 8**

Mr. Schwedler thanked Mr. Mehboob for his time, effort, and passion.

### **HQ GRAND OPENING PLAN**

Mr. Schwedler reported that the grand opening plan was attached to the agenda for the BOD's review. He asked BOD members to be aware of the plan when making transportation arrangements.

### **INFORMATION ITEMS**

#### **PRESIDENTIAL TRAVEL PLANS**

Mr. Schwedler reported that the Presidential travel plans have been uploaded to Basecamp. He reported that he has coordinated with the DRCs and he plans to spend at least one week at each of the Regions. He thanked the DRCs for their assistance with this effort.

### **EXECUTIVE SESSION**

Executive session was called at 11:56 am.

Open session reconvened at 12:31 pm.



**ACTION ITEM REVIEW**

Mr. Schwedler reported that staff will email a list of action items following this meeting.

**ADJOURNMENT**

The meeting adjourned at 12:32 pm.

A handwritten signature in black ink, appearing to be "J. Littleton", with a horizontal line extending to the right.

Jeff H. Littleton, Secretary

**ATTACHMENTS:**

- A. Addresses to the Board of Directors
- B. Meeting Registration and Activity Update
- C. Vision 2030 Ad Hoc Presentation

**ADDRESSES TO THE BOARD OF DIRECTORS  
JULY 1, 2021**

- **Kevin Belusa, Toronto Chapter**

It is unclear how to view a live event. I am registered, have paid and am logged in. I sent an email to the support desk only to get a late reply and a message which indicated they didn't even look at the attachments I sent. I am still unable to click into a live event and am unlikely to register for another virtual event from ASHRAE. There is no support. No one to call to resolve my issue. An easy fix to this would be to have more support people and have an introductory video on how to use the site.

# 2021 VIRTUAL ANNUAL CONFERENCE

## Preliminary Report to the Board of Directors

### By the Numbers Comparison

2021 Virtual Annual Conference	2021 Virtual Winter Conference	2020 Virtual Annual Conference
<p><b>June 28-30, 2021</b> 3 days, Mon-Wed, times vary per day 65 total live events</p> <p><b>(47) Live Technical Sessions</b> Seminars, Keynote, Forums, Panels, Paper Sessions (2-3) blocks per day of (3-5) concurrent sessions</p> <p><b>(13) Non-Technical Interactive Sessions via Zoom</b> 2-way interaction between presenters and attendees</p> <ul style="list-style-type: none"> <li>(6) Sponsor Technology Demos</li> <li>(7) Round Tables and Meet Ups hosted by Standing Committees</li> </ul> <p><b>(5) Live Special Events</b></p> <ul style="list-style-type: none"> <li>(1) Meeting of the Members</li> <li>(1) Honors and Awards Presentation</li> <li>(1) ALI Short Course, 3-Hours from Global Training Center in Dubai</li> <li>(1) Live Election Results with Installation of new BOD and Presidential Address</li> <li>(1) Member Band Encore Performance</li> </ul>	<p><b>February 9-12, 2021</b> 3 ½ Days, Tues-Fri, times vary per day 66 total live events</p> <p><b>(41) Live Technical Sessions</b> Seminars, Debate, Workshops, Forums (2) blocks per day of (4) concurrent sessions</p> <p><b>(11) Interactive Sessions via Zoom</b> 2-way interaction between presenters and attendees</p> <ul style="list-style-type: none"> <li>(5) Sponsor Technology Demos</li> <li>(6) Round Tables and Meet Ups hosted by Standing Committees</li> </ul> <p><b>(14) Live Special Events</b></p> <ul style="list-style-type: none"> <li>(1) Women in ASHRAE keynote</li> <li>(1) Social Event: Escape Room</li> <li>(2) Technical Tours (ASHRAE HQ/STACK Infrastructure)</li> <li>(6) Honors and Awards Presentations</li> <li>(3) Student Program sessions</li> <li>(1) Member Band Encore Performance</li> </ul>	<p><b>June 29-July 2, 2020</b> 4 Days, Mon-Thurs, 12:00 – 5:00 p.m. ET 20 total live events</p> <p><b>(12) Live Technical Sessions</b> Seminars, Panels, Debates, Workshop No concurrent sessions</p> <p><b>(8) Live Special Events</b></p> <ul style="list-style-type: none"> <li>(4) Leadership Moments: State of Society, Secretary’s Report, BOD Retirement/Installation, Presidential Address</li> <li>(4) Virtual Happy Hours: YEA, MP/WIA, BOD and Member Band</li> </ul>



### By the Numbers Comparison Continued

2021 Virtual Annual Conference	2021 Virtual Winter Conference	2020 Virtual Annual Conference
<b>(434) Committee Meetings</b> Over a <u>3-week</u> period	<b>(468) Committee Meetings</b> Over a <u>5-week</u> period	<b>(313) Committee Meetings</b> Over a <u>8-week</u> period
<b>(72) On-Demand Sessions</b> Seminars and Conference Paper Sessions	<b>(85) On-Demand Sessions</b> Seminars and Conference Paper Sessions	<b>(84) On-Demand Sessions</b> Seminars and Conference Paper Sessions
<b>(14) ASHRAE publications highlighted in live Technical Sessions and linked for purchase</b>	<b>(27) 20 min Live Q&amp;A Chats</b> For on-demand Conference Paper Sessions only	<b>(84) 20 min Live Q&amp;A Chats</b> For on-demand Seminars and Paper Sessions
<b>(81) Downloadable Conference Papers</b>	<b>(85) Downloadable Conference Papers</b>	<b>(71) Downloadable Conference Papers</b>
<b>(10) Conference Sponsors with sponsor kiosks</b> \$78,000 gross sponsorship	<b>(14) Conference Sponsors with sponsor kiosks</b> \$82,000 gross sponsorship	<b>(1) Conference Sponsor (no kiosk)</b> \$2,500 gross sponsorship
<b>970 Attendees</b> <i>*does not include post-conference registrations</i>	<b>1,804 Attendees</b>	<b>2,563 Attendees</b>
<b>\$285 Member Rate</b>	<b>\$249 Member Rate</b>	<b>\$99 Member Rate</b>

### New Aspects for the 2021 Virtual Annual Conference:

- **Research Summit** – A compilation of 16 Conference Paper Sessions presented in two blocks on Wednesday afternoon. Presenting authors were given 2 minutes and 1 slide to summarize their paper. The summary presentations were presented in rapid-fire style one right after the other. Once summary presentations were finished the rest of the session was opened for audience Q&A. This format replaced our 20-minute live Q&A session from the previous 2 virtual conferences.
- **Badges** – attendees could earn a badge within the virtual conference environment and prizes will be given
  - **Society Leader:** Participate in the group chat in the Meeting of the Members, and during the 2021–2022 ASHRAE President Mick Schwedler’s Society Address.
  - **ASHRAE Influencer:** Complete your profile (including picture) and engage with your fellow attendees throughout the event.
  - **ASHRAE Master Achievement:** This badge of distinction is awarded to those who are leaders in virtual socializing & participation. They have updated their profile, shared event information to their social media profiles, chatted with attendees, and viewed at least 4 sessions for 30 minutes each.
  - **Engager:** his badge is earned when attendees visit the Sponsor Hall for a minimum of 10 minutes.
- **No Live Q&A for On-Demand Seminars** – did not schedule live Q&A for these sessions to promote the Research Summit
- **Bookstore** – The bookstore was linked to the virtual conference environment and specific publications for each live seminar highlighted and linked for purchase in live session webcast console

Updated: Wednesday, June 30 7:00 p.m. ET



### Registration

	2021 Virtual Annual Conference	2021 Virtual Winter Conference	2020 Virtual Annual Conference
<b>Total Registrations</b>	970	1,809	2,539
<b>Last 10 Days Leading Up to Conference</b>	334 registrations 34% of total registered attendees	850 registrations 47% of total registered attendees	990 registrations 39% of total registered attendees
<b>Total Company Packages</b>	17	60	54
<b>Registered Attendees of Company Packages</b>	139 attendees as part of packages 14% of total registered attendees	446 attendees as part of packages 24% of total registered attendees	725 attendees as part of package 28% of total registered attendees

	Total Unique Attendees per Day				Total Registered Attendees
	Day 1	Day 2	Day 3	Day 4	
2021 Virtual Annual <i>% of live engagement</i>	656 68%	646 67%	577 59%	--	970
2021 Virtual Winter <i>% of live engagement</i>	1,164 64%	1,158 64%	1,015 56%	--	1,809
2020 Virtual Annual <i>% of live engagement</i>	1,326 51%	1,077 42%	839 32%	779 30%	2,592

	Unique Attendees for Week of Live Event	Percentage of Registered Attendees
2021 Virtual Annual	931	96%
2021 Virtual Winter	1,694	94%
2020 Virtual Annual	1,821	70%



## Most Popular Sessions

### Technical Sessions:

- Fundamentals of Climate Change (Seminar 1): **244** unique live viewers
- Keynote: The COVID-19 Pandemic and Built Environment: Update on ASHRAE's Response: **238** unique live viewers
- Update on Progress of the Task Force on Building Decarbonization (Seminar 13): **139** unique live viewers

### Special Events:

- Meeting of the Members: **217** unique live viewers
- Installation of 2021-2022 Board of Directors and Presidential Address by Mick Schwedler: **119** unique viewers
- Closing Remarks and Performance by The Psychrometrics: **80** unique viewers

### Interactive Sessions hosted in Zoom:

- Is there a Magic Formula for Combining Multiple Air Cleaning Technologies to Improve Air Quality? (Forum 1): **96** unique attendees
- Maintaining Control during a Pandemic: Lessons Learned from Adapting Building Automation Systems to Meet Changing Recommendations (Panel 1): **86** unique attendees
- Sponsor Technology Demonstration: DHP(TM) (Dry Hydrogen Peroxide): The Microbe Fighting & Non-Ozone Producing Choice for Indoor Air Quality presented by Synexis and Trane: **72** unique attendees



# ASHRAE Vision 2030 and Beyond – Buildings of the Future Presidential Ad Hoc Committee

Final Report to the BOD  
June 24, 2021

Sheila J. Hayter, PE, FASHRAE  
Vision 2030 Ad Hoc Committee Chair

# Ad Hoc Committee Charge and Outcome

- **Committee Charge:**
  - Define how buildings of the future will be designed, constructed, and operated
  - Provide recommendations for actions to position ASHRAE and its members as leaders in this future
- **Outcome of Committee Activities**
  - Develop Description for the built environment in 2030 and beyond (Vision 2030 Mission Statement)
  - Developed content for the ASHRAE Vision 2030 webpage <https://www.ashrae.org/about/ashrae-vision-2030>
  - Developed recommendations for BOD actions to implemented the Vision 2030





# Vision 2030 Mission Statement

As a global society, ASHRAE guides and shapes the built environment for the advancement of human wellbeing through education, research, and standards advancements for our modern world.

Technology will improve every aspect of the built environment with an integrated community of buildings and the energy systems that support our daily lives. Our built environment will be adaptable and resilient to best serve the occupants with efficient, healthy, safe, and secure, indoor environments. The data-driven buildings industry, through innovation and ingenuity, will drive our buildings to increasingly higher performance. Integrating intelligent design, construction, and operation will transform tomorrow's built environment.

ASHRAE is committed to lead, serve, and provide all professionals in the buildings industry the resources and knowledge to continually drive the innovative and strategic improvements needed during this revolution of our built environment.



# Vision 2030 Webpage

ASHRAE Vision 2030

https://www.ashrae.org/about/ashrae-vision-2030

ASHRAE Shaping Tomorrow's Built Environment Today

What Are You Looking For?

JOIN VOLUNTEER MAKE A GIFT BOOKSTORE LOG IN

ABOUT TECHNICAL RESOURCES PROFESSIONAL DEVELOPMENT CONFERENCES COMMUNITIES MEMBERSHIP

Home > About >

ASHRAE VISION 2030 AND BEYOND

SHARE THIS



Connected  
Communities

Built  
Environment

Data &  
Integration

Team  
Processes

Member  
Services

Resources



# Recommendations for BOD Action

Implementation Strategy	Responsibility	Notes
Establish a Vision ad hoc committee for the 21/22 Society Year	<b>Develop</b> and <b>implement</b> plan for integrating the vision discussions throughout ASHRAE's structure; ensure coordination between Vision Ad Hoc committee and other on-going aligned ASHRAE activities; ensure continued development of the Vision 2030 webpage	Members include representation from the 20/21 Vision 2030 ad hoc committee, BOD representation (preferably with council connections), and new members; <b>focus is on implementation</b> so members should have appropriate skill sets
Assign responsibility for leading Vision discussion within the BOD	Ensure regular BOD vision discussions; facilitate discussions at the council level; oversee webpage maintenance	Form team chaired by the Treasurer, members represent at least one non-VP BOD member from each council plus other members at President or President-Elect discretion
Engage PLC in on-going vision discussions	Include strategies for achieving vision in current strategic plan update and future strategic plans	Possibly create a standing PLC subcommittee dedicated to ensuring the vision is being considered in PLC discussions
Nurture Vision discussions within Councils	Ensure aspects of vision aligned with Council priorities are considered on a continuous basis	Possibly create a standing subcommittees within the Councils dedicated to ensuring the vision is being considered by the councils and their committees

# Next Steps for BOD Action

- Recognize that for ASHRAE to be the leading provider of knowledge and resources as we transition more sophisticated building design, construction, and operation, the Vision 2030 and Beyond conversation MUST continue.
  - The Vision 2030 Ad Hoc Committee strongly encourages the BOD to act on the ad hoc committee recommendations.
- Assign responsibility for continued maintenance of the Vision 2030 webpage plus staff support.
- Lead by example by actively engaging in discussions exploring how to position ASHRAE as a leader, encourage others in the Society to do the same.



# Vision 2030 and Beyond Ad Hoc Committee Participants

- Sheila Hayter
- Tom Phoenix
- Darryl Boyce
- Chip Branscum
- Robin Bryant
- Michael Cooper
- Dru Crawley
- Chris Gray
- Bill MacGowan
- Tim McGinn
- Daniel Nall
- Lan Chi Weekes
- Joe Noworatzky
- Drew Perrin
- Chandra Sekhar
- Manish K Sharma
- Jiri Skopek
- Connor Barbaree

