TECHNOLOGY COUNCIL
Spring Web Meeting
March 11, 2024

MOTIONS
Technology Council Winter Conference Chicago Motions
March 11, 2024

Motion Number	Motion
1	Technology Council recommend to the Board approval of the revised *Energy Efficiency in Buildings* Position Document(PD).
2	To accept the structure for the committee on how Tech Council will address projects that come out of the CEBD as shown in attachment 7A.

ACTION ITEMS
Technology Council Spring Web Call
March 11, 2024

AI#	Responsibility	Status	Description
1	Staff	Complete	To send the ASHRAE Global HVAC&R Summit Final Report with Tech Council assignments to Tim Wentz.
2	Staff	Complete	To send the ASHRAE Global HVAC&R Summit Final Report with Tech Council assignments to the Standing Committee Chairs.
3	Wade Conlan	Complete	To arrange a working session between the Energy Efficiency in Buildings PD Committee and those who have opinions about the revised position document.
4	James Bennett	Complete	To share TAC inputs to the Strategic plan with the Society Planning Committee.
5	Standing Committees	Complete	To keep Susanna Hanson informed on Strategic Plan input.
6	Stephanie Reiniche	Complete	To record sentiments from this meeting regarding DEI for Ashish to bring to the Board.
7	Tech Council	Ongoing	To update the Tech Council Reference Manual to reflect the process for handling projects from the CEBD.

ACTION ITEMS
Technology Council Winter Conference Chicago
January 24, 2024

AI#	Responsibility	Status	Description
1	Staff	New	Send the Global HVACR Summit Action Item list to Tim Wentz to review.
2	Staff	New	Circulate this list to all members in Tech Council.
3	Steve Sill	New	Identify which items in the Global HVACR Summit Action Item list that Tech Council should be focusing on.
4	Staff	New	Send Global HVACR Summit Action Item list with proposed assignments to the Society Planning Committee.
5	Stephanie Reiniche	New	Talk to Joslyn Ratcliff about what

			software/web service PC chairs should use for document collaboration and/or storage so it complies with the rules.
6	Standards	New	Collect information from the project chairs and SPLS Liaison about concerns with the publication process and provide to Staff.
7	RAC	New	Make sure their strategic planning group does not absolve so that tracking of the initiatives can be reported.
8	Wade Conlan	New	Relay that the previous survey was more grassroots oriented and less Tech Council oriented.
9	Wade Conlan	New	Lead this ad hoc to determine how the CEBD work will flow within the Council.

ACTION ITEMS
Technology Council Fall Virtual Meeting
October 09, 2023

AI#	Responsibility	Status	Description
1	Stephanie Reiniche	Complete	Add formal communication for the HVAC summit to the leadership agenda.
2	Amber Thomas	Complete	Send out MBOs to TechC and PLC.

ACTION ITEMS
Technology Council Annual Meeting
June 28, 2023

AI#	Responsibility	Status	Description
1	EHC	Complete	Connect with Paul Francisco and other standing committees who have stated an interest in being involved in the revision of the Unvented Combustion Devices and Indoor Air Quality PD.

Action Items
Technology Council Spring Virtual Meeting
April 17, 2023

AI#	Responsibility	Status	Description
1	Amber	Complete	Send out the feedback on Society addressing AI technology.

Minutes
Technology Council

Voting Members Present:	Staff
Ashish Rakheja, Chair	Stephanie Reiniche, DOT
Wade Conlan, Vice Chair	Ryan Shanley, SMOS
Carl Huber	Steve Hammerling, MOT
Christopher Phelan	Derrick Nesfield, MOSP
Costas Balaras	Donna Daniel,
Dru Crawley	Amber Thomas, Administrative Assistant
Larry Smith	
Luke Leung	**Guests**
Mike Pouchak	Adam Hinge
Paul Francisco	Barry Abramson
Richie Mittal	Dennis Landsberg
Steve Sill	Jim Kelsey
Susanna Hanson	
Bill Bahnfleth – EHC Chair	**TechC Voting Absent:**
Olu Soluade – GTIC Chair	Susanna Hanson
Bill Murphy – RAC Chair	
Bill Healy – RBC Chair	**TechC Non-Voting Absent:**
Steve Kujak – REF Chair	Natascha Milesi-Ferretti – RAC Vice Chair
Doug Fick – StdC Chair	Rachel Romero – RBC Vice Chair
James Bennett – TAC Chair	Kevin Mercer – TAC Vice Chair
Non-voting Present:	
Marwa Zaatari -EHC Vice Chair	
Doug Scott – REF Vice Chair	

1. CALL TO ORDER/OPENING COMMENTS

Chair Rakheja called the meeting to order at 8:00 A.M. ET. The commitment to care, the commitment to the Code of Ethics and the ASHRAE Core Values were shared during the meeting.

Secretary's Note: Quorum was met with 18 voting members, including the Chair at the start of the meeting.

All reports referenced in the minutes are on Basecamp in the folder "2024-03-11 Spring Virtual Meeting."

2. REVIEW OF AGENDA

A. Agenda Review

The agenda was approved as presented.

3. MINUTES/ACTION ITEMS

A.   TechC Winter Conference Meeting Minutes – 03A

It was moved by Larry Smith and seconded by Mike Pouchak that the Technology Council Winter Conference Meeting minutes be approved.

Tech C Vote: 17-0-0, CNV

MOTION PASSED by Acclamation.

B.   Action Items

The action items were updated as shown above in the action item table.

Secretary's Note: 1 more Voting Member joined the call, bringing the total to 19.

4. **SUBCOMMITEE REPORTS**

A. Operations (OPS)

Susanna Hanson, OPS Chair, was absent so Amber Thomas presented the report. The report is posted on Basecamp as *04A_OPS Report to Tech Council.docx*.

Ms. Thomas highlighted the following information items:

1. Standing committees submitted their feedback for the Strategic Plan through the survey sent out by President Ginger Scoggins.

2. RBC subcommittees continue to meet with a major goal of completing Strategic Plan and accompanying tasks (E.g., dissemination of plan, and development of action items from plan).

3. Manuscripts from RBC for ASHRAE Journal are continuing, with one published in March issue, and two others in the queue.

B. Special Projects

Steve Sill, Special Projects Chair, presented the report. The report is posted on Basecamp as *04B_SpcProj_Report_to_TechC-2024_03_10_v2 (3).docx*.

Mr. Sill highlighted that Special Projects Subcommittee reviewed the ASHRAE Global HVAC&R Summit Final Report to determine which actionable items could be assigned to Technology Council through its Standing Committees. Special Projects has no new assignments for committee review currently.

A1   An action item was assigned to Staff to send the ASHRAE Global HVAC&R Summit Final Report with Tech Council assignments to Tim Wentz.

A2   An action item to Staff to send the ASHRAE Global HVAC&R Summit Final Report with Tech Council assignments to the Standing Committee Chairs.

C. Document Review Subcommittee (DRSC)

Wade Conlan, DRSC Chair, presented the report. The report is posted on Basecamp as *04C - DRSC Rprt to TechC-spring24.docx*.

It was moved by Mr. Conlan that:

M1   Technology Council recommend to the Board approval of the revised *Energy Efficiency in Buildings* Position Document(PD).

BACKGROUND: The PD was included as **Attachment 04C.1-Att. A**. The title, purpose and scope of this PD was included as **Attachment 04C.1-Att. B** A previous draft was sent for DRSC, Tech Council and BOD members to comment on. Comments were collected and sent to the PD committee. The PD committee made changes in response to comments that were collected and sent to the PD committee.

DRSC VOTE: 6-0-0 CV – PASSED

TechC Vote: 0-17-0, CNV *Chris Phelan marked Not Here

Secretary's Notes: Concerns were expressed that the title, purpose, and scope is not being followed and it is more about Greenhouse Gas Emissions. It was also expressed that those types of items belong in the climate change or building decarbonization position documents. This position document needs to focus on energy efficiency, and all agreed one more round of editing would be needed and it should be able to move forward. The feedback will be shared with the PD Committee.

A3   An action item was assigned to Wade Conlan to arrange a working session between the Energy Efficiency in Buildings PD Committee and those who have opinions about the revised position document.

5. STANDING COMMITTEE REPORTS

A. Standards Committee (StdC)

Doug Fick, Chair of StdC, presented the report. The report is posted on Basecamp as *05AStdC Report to TechC.March24.docx*.

Mr. Fick highlighted the following information items:

1. Neither Standards Committee nor any of the subcommittees have met since the Chicago meeting. Next meeting dates are March 18th for PPIS, March 19th for SPLS and March 27th forStandards.
2. SRS has received and approved the following galley proofs for Reaffirmation Standard 63.2, Standard 158.1, Standard 183, Standard 200, and Standard 206.
3. The committee is working on the procedures for a ASHRAE Standard to complement the current procedures for ASHRAE/ ANSI Standards.

B. Research Administration Committee (RAC)

Bill Murphy, Chair of RAC, reported that members are working on MBO items to be ready for the RAC meeting in early April. The deadline for RTAR submissions is March 15th, so RAC meets after that date to ensure meaningful discussion.

Stephanie Reiniche added that staff is currently testing the online processing for RAC, and next the committee will test it.

C. Technical Activities Committee (TAC)

James Bennett, the Chair of TAC, presented TAC's inputs for the Strategic Plan. These inputs are posted on Basecamp as *05C – Att. A – TAC Inputs via Tech Council Ops for ASHRAE Strategic Plan.docx*. There is also a TAC report posted as *05C-TAC Rprt to TechC.spring24.docx*. There were no motions brought forward.

A4   An action item was assigned to James Bennett to share TAC inputs to the Strategic plan with the Society Planning Committee.

A5   An action item was assigned to the standing committees to keep Susanna Hanson informed on Strategic Plan input.

D. Environmental Health Committee (EHC)

Bill Bahnfleth, the Chair of EHC, presented the report. The report is posted on Basecamp as *05D - EHC Rprt to TechC.March24.docx*. There were no motions brought forward.

Mr. Bahnfleth highlighted the following information items:

1. At the request of ASHRAE Government Affairs, EHC is reviewing a report from the Office of the Inspector General. The report documents an IAQ inspection of the Government Publishing Office that references ASHRAE Standard 62.1. US Federal law requires that non-governmental organizations or business entities be notified and given the opportunity to comment when they are identified in a published non-investigative report. Some EHC members are also SSPC 62.1 members and provided comments on the report.

2. EHC agreed to sponsor or co-sponsor three seminars for the 2024 annual conference: one use of sensors for IEQ control and two seminars sponsored by SGPC 10 and TC 2.1, one on challenges of defining an IEQ metric for use in an IEQ standard and the other on current research on development of an IEQ metric.

3. In response to a request from RBC, EHC commented on an issue it raised about IEQ in windowless bedrooms. EHC has suggested that RBC collaborate in the development of an Emerging Issue Brief on this topic.

4. Committee leadership met with Paul Stackhouse, a NASA scientist who collaborates with TC 4.2 for a briefing about a NASA project called TEMPO (Tropospheric Emissions: Monitoring Pollution. TEMPO is collecting hourly data on major air pollutants (NOx, formaldehyde, SOx, PM2.5, etc.) across North America. This database and tools to access it may be of interest to multiple ASHRAE technical, standards, and guideline committees. EHC will contact potentially interested groups to connect them with Dr. Stackhouse, who plans an in-person visit to the annual conference.

5. The EHC outreach and coordination subcommittee initiated communication with the 62.1 committee to explore the integration of Standard 241 concepts into the framework of 62.1. Following productive discussions, 62.1 recognized the significance of these concepts and subsequently voted to establish an ad hoc committee dedicated to further deliberations on this matter. Members of the EHC have been actively included in this newly formed committee, ensuring a comprehensive and collaborative approach to the integration process.

E. Refrigeration/CPCC (REF-CPCC)

Steve Kujak, the Chair of REF-CPCC, presented the report. The report is posted on Basecamp as 05E-REF-CPCC Rprt to TechC.spring24.docx. There were no motions presented.

Mr. Kujak highlighted the following information items:

1. REF will help coordinate an update to the *ASHRAE Guide for Sustainable Refrigerated Facilities and Refrigeration System* with collaboration with IIAR and TC 10.2. The objective is to develop updates, expand usability of electronic tools from original work, and modifications to enable a course set with much greater user uptake than only a book provides.

2. A PD committee for the Refrigerants and their Responsible Use *position document* (PD) was approved at the Winter Meeting and they will start their work shortly.

3. REF-CPCC is exploring a proposal for a new ASHRAE PD on *Sustainable Cold Chain*. A subcommittee was tasked with developing a title and scope for a formal PD proposal.

F. Residential Building Committee (RBC)

Bill Healy, the Chair of RBC, presented the report. The report is posted on Basecamp as *05F_RBC Report to Tech Council_03-11-2024.docx*.

Mr. Healy highlighted that the ASHRAE Journal manuscript entitled "Working from Home and the Impacts on Residential Buildings" published in March 2024 Issue. An accompanying "Hot Air Podcast" was also posted to the ASHRAE website. Three other draft manuscripts have been submitted to the committee.

G. Global Technical Interaction Committee

Olu Soluade, the Chair of GTIC, submitted the report after the meeting. The report is posted on Basecamp as *05G_GTIC Report to TechC.23F Rev 1 March 2024 (1).docx*. There were no motions presented.

Mr. Soluade reported that GTIC is on track to meet the targets the committee set.

6. SPECIAL COMMITTEE/LIAISON REPORTS

A. Government Affairs Committee (GAC) Liaison Report

Christopher Phelan, GAC Liaison, presented the report. The report is posted on Basecamp as *06A_GAC Report to Tech Council – Spring Meeting 2024.docx*. The following information items were highlighted:

1. The GAC extends it appreciation to Tech Council for providing considerable support to the GAC through providing updates on PDs, standards and other technical resources. We appreciate the quick response from Bill Bahnfleth at the EHC in regards to the IAQ inspection of the Government Publishing Office.

2. Government Outreach Events: The GAC set a goal of 100 Government Outreach Events to be held during Society Year 2023-2024. With the majority of the domestic outreach events typically occurring in the Spring when the legislatures are in session, the GAC is in a strong position to meet its goals.

3. PPIBs: The GAC expects to update 10 existing PPIBs this spring, and develop 3 new PPIBs (Wildfires and Indoor Environmental Health; Embodied Carbon; and Infectious Disease Mitigation).

4. Continued Communication: The GAC would appreciate receiving any key updates on new or updated Standards and Guidelines, Position Documents, or other technical resources. The GAC wants to make sure the information it is providing to policy makers through its extensive grassroots network is the

most up-to-date and technically accurate.

5. There are numerous subcommittee meetings scheduled during the month of March and updates will be provided at our next technology council meeting.

B. Finance Liaison Report

Mr. Rakheja was unable to attend the latest Finance meeting, and no update was provided

C. Society Planning Liaison Report

Wade Conlan, PLC Liaison, reported that in two weeks, the Board will be in Atlanta to go over the next draft Strategic Plan with the consultants. He advised that any committee that has not yet met should have an agenda item regarding the Strategic Plan so they can be ready to give feedback when asked.

D. Society Rules Committee

SRC has not met.

E. DEI

DEI Chairs are meeting regularly and working on getting resources to the regional level. They are also looking to get DEI articles for the ASHRAE Insight Journal.

A6 An action was assigned to Stephanie Reiniche to record sentiments from this meeting regarding DEI for Ashish to bring to the Board.

F. CEBD

Luke Leung, CEBD liaison, highlighted the following items:

1. The CEBD is working on its transition to the three councils (Members, Tech Council, and PubEd).

2. The CEBD submitted a comment to the White House for zero emissions building definition.

3. The EPA has just opened up for comment on a new topic, labeling of embodied carbon products and material.

4. There is a new standard to develop the PCR process for mechanical, electrical and plumbing (MEP) products.

7. **AD HOC REPORTS**
   A. CEBD Transition in Tech Council

   The next meeting for this will be after the incoming Vice Chair for Tech Council is announced.

   It was moved by Wade Conlan and seconded by Mike Pouchak:

M2   To accept the structure for the committee on how Tech Council will address projects that come out of the CEBD as shown in attachment 7A.

   Secretary's Note: Voting members decreased to 16 without chair since Bill Bahnfleth and Olu Soluade left.

   TechC Vote: 16-0-0, CNV

A7   An action item was assigned to Tech Council to update the Tech Council Reference Manual to reflect the process for handling projects from the CEBD.

   B. World of Tech – Smith

   There is nothing new to report since the January meeting.

8. **STRATEGIC PLANNING**

   June is when the Strategic Plan is evaluated, so reports in June should include this.

9. **NEW BUSINESS**

   There was no business brought before the Council.

10. **EXECUTIVE SESSION**

   There were no items in Executive Session.

11. **NEXT MEETING**

   Tech Council will meet on Wednesday, June 26, 2024, at 9am EST.

12. **ADJOURN**

   The meeting was adjourned at 9:43am ET.