



TECHNOLOGY COUNCIL
Fall Virtual Meeting
Friday, November 13, 2020

NOTE: These are not the official minutes until approved by Technology Council

MOTIONS
Technology Council
Fall Virtual Meeting
Friday, November 13, 2020

Motion	Description
M1	Minutes of the Technology Council's June 29, 2020 Summer meeting were approved as distributed.
M2	Technology Council approved a special project for an epidemic preparedness document for commercial buildings as shown in the attached proposal and contingent upon 100% outside funding. (Attachment A) Fiscal Impact: Minimal staff time is expected to be required. DOE has committed to funding the contractor development of the document.
M3	Technology Council approved that Lew Harriman chair the Limiting Indoor Mold and Dampness in Buildings Position Document Committee.
M4	Technology Council approved the June 2020 ASHRAE Journal Article titled Indirect Evaporative Cooling Drives Data Center Efficiency by ASHRAE Member Paul Finch be awarded the George Briley Journal Award for SY 20-21. Fiscal Impact \$200.
M5	Technology Council accepted the Stakeholder Call Summary Report (PDF file: 05F_RBC_Stakeholder-call-summary-report-EAS-July-15-2020-F.pdf) and to act on the recommendations as appropriate.

ACTION ITEMS
Technology Council
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AI#	Responsibility	Status	Description
1	Reiniche and Hammerling		Work with TAC on moving forward the request for a TAC Functional Group reporting automation tool including a proposed budget.
2	OPS/Standing Committee Chairs		Verify that virtual meetings are listed in all REF manuals.
3	Staff and McQuade		Distribute Stakeholder Summary Report to TechC chairs to review and make recommendations with cover letter from TechC Chair.

MINUTES
Technology Council
Fall Virtual Meeting
Friday, November 13, 2020

Voting Members Present

Bill McQuade, Chair
Tim McGinn, Vice Chair
Tyler Glesne
Rick Hermans
Jaap Hogeling
Adrienne Thomle
Steve Emmerich
David Yashar
Billy Austin
Krishnan Gowri
Wade Conlan
Heather Platt Gullledge
Kishor Khankari
Wei Sun

Non-Voting Members Present

Dustin Meredith
Chris Wilkins
Pat Graef
Dru Crawley
Yunho Hwang
Michael Pouchak
Stephen Gill
Richard Karg

Absent

Rick Heiden
Larry Smith
Luke Leung

Guests

Tom Lawrence

ASHRAE Staff

Connor Barbaree, Sr. MOS
Steve Hammerling, AMORTS
DD Latham, AA
Lilas Pratt, MOSP
Stephane Reiniche, DOT
Mike Vaughn, Sr. MORTS

1. CALL TO ORDER

Chair, Bill McQuade, called the meeting to order at 9:00 a.m. Vice Chair, Tim McGinn, was asked to record any action items during the meeting.

Secretary's Note: Quorum was met with 13 voting members, plus Chair. All reports noted in the minutes can be found on Basecamp at [ASHRAE Technology Council/Docs and Files/Meetings / 11-13-2020 TechC Fall Meeting](#)

2. MINUTES/ACTION ITEMS

It was moved by Wade Conlan and seconded by Wei Sun that:

- M1** The minutes of the Technology Council's June 29, 2020 Summer virtual meeting be approved as distributed.

TechC Vote: 12-0-0-1¹, CNV

Technology Council Action Items were reviewed, updated and can be found on Basecamp at [ASHRAE/Docs & Files/Meetings/11-13-2020 TechC Fall Meeting/03B ACTION ITEMS as of 11_2020](#).

¹ Rick Hermans abstained as he was not present during the TechC Summer meeting.

4. SUBCOMMITTEE REPORTS

A. Operations

Chair, Steve Emmerich, reported on the status of the standing committees MBOs and Bill McQuade discussed the TechC MBOs in detail. The full MBO spreadsheet is posted on Basecamp at [ASHRAE/Docs & Files/ Meetings/11-13-2020 TechC Fall Meeting/04A OPS Report to TechC 11_13_2020](#).

Each standing committee chair has been asked to identify 5 lean assessment ideas per standing committee by December 8, 2020. The ideas don't necessarily have to pertain just to Tech Council or its subcommittees. These ideas could be implemented in the 2020/2021 society year budget and beyond.

Tom Lawrence, the liaison from the Society Planning Committee (PLC) to Technology Council, discussed the PLC Monitoring Subcommittee activities. They are particularly interested in tracking Committee and Council MBOs that address goals and initiatives of the Society Strategic Plan and the metrics used to measure progress. The PLC wants the metrics to be developed by the Chairs of the committees. Any suggested improvements to the process were welcomed. The TechC and Standing Committee MBOs template was updated after the meeting to align with the Society Planning Committee's request to include metrics. This new version will be used moving forward.

There were no motions presented.

B. Special Projects

Chair, David Yashar, presented the Special Projects report which can be found on Basecamp at [ASHRAE/Docs & Files/Meetings/11-13-2020 TechC Fall Meeting/04B_SpcProj_Report_to_TechC_2020_11_13](#).

It was moved by David Yashar that:

- M2** Technology Council approve a special project for an epidemic preparedness document for commercial buildings as shown in the attached proposal and contingent upon 100% outside funding. (Attachment A)

Fiscal Impact: Minimal staff time is expected to be required. DOE has committed to funding the contractor development of the document.

TechC Vote: 12-0-0-1², CNV

C. Document Review

Chair, Tim McGinn, stated that DRSC had no new projects to report on at this time and had not needed to meet.

5. STANDING COMMITTEE REPORTS

A. Technical Activities

Chair, Dustin Meredith, reported on TAC activities as highlighted below. No motions coming forward from TAC and the full report can be found on Basecamp at [ASHRAE/Docs & Files/Meetings/11-13-2020 TechC Fall Meeting/05C-TAC F20](#).

² Rick Hermans abstained as he had not reviewed the attachments in advance of voting.

1. TAC is working with TC 2.10 to develop a work plan to address ASHRAE Strategic Plan #1 on Resilient Buildings and Communities. It is anticipated that Functional Groups (FG's) 2.7, 2.5, 4.2, 4.4, 5.6, 6.7, 7.5, 9.9, and EHC will participate and have a role.
2. TAC developed a flowchart and timeline for a formalized process to evaluate annual continuation of Functional Groups (FG). The tool will be a resource to Section Heads and informational resource to FGs to see how their performance is being measured. The guidance is to help subjectively and objectively analyze a functional group's 'health'. A motion to request funding for an online FG reporting automation tool and roster updates will be coming forth soon. These tools would substantially streamline TC and staff time efforts.

A question was asked about when the funding request for an online Functional Groups (FG) reporting automation tool would be made. Mr. Meredith replied that the goal was to bring that motion forward in January.

AI#1 – Stephanie Reiniche and Steve Hammerling to work with TAC on moving forward the request for a TAC Functional Group reporting automation tool including a proposed budget.

B. Research Administration

Chair, Chris Wilkins, presented the RAC Report which is posted on Basecamp at [ASHRAE/Docs & Files/Meetings/11-13-2020 TechC Fall Meeting/ 05B RAC Fall Meeting Report to TechC 11_13_20](#). There were no motions and the following items were highlighted:

1. RAC approved and recommended to Technology Council and Honors & Awards Committee that the SY 20-21 *Service to ASHRAE Research Award* recipient be Larry Markel for the excellent support and direction he provided to **RP-1848** (*Assessing The Impacts and Value of ASHRAE's Standards and Technology*) and in bringing this project to a successful conclusion for MTG.IAST and ASHRAE.
2. RAC & RESEARCH BUDGET
Total commitments for Research Program total \$7,507,835 and the potential expenses for SY 20-21 are currently \$1,832,387 with a budget this year of \$1,823,900. The three new projects (1703, 1831, and 1865) that were approved at the 2020 Virtual Annual meeting or prior have not been contracted yet. The potential start date for these projects has been pushed out to September 2021, but may get pushed further out if COVID-19 is still not under control.

Now that the AHR 2021 Expo for Chicago has been cancelled RAC plans to release no new projects for bid this fall.
3. RAC also took preemptive steps this fall to reduce potential funding commitments for SY 21-22 by posting to the ASHRAE website that the following awards and grant programs have been suspended for SY 20-21 due to severe budget constraints created by the COVID-19 pandemic. RAC will revisit this decision again in July 2021 to determine if the suspension should continue again for SY 21-22.
 - Graduate Student Grant in Aid Program (GIA)
 - New Investigator Award (NIA)
 - Innovative Research Grant (IRG)
4. RAC reviewed and rejected two URPs (1911 & 1914), both of which were on the topic of COVID-19. URP 1911 was too costly for ASHRAE, but this URP will be sent to the ASHRAE Washington D.C Office to determine if NIH or NIOSH or others might have an interest in funding the project. URP 1914 was also rejected, but it will be shared with ETF to see if they see value in the project that RAC is missing.

Mike Vaughn noted that TC work statement proposals are still being accepted but no approvals are expected as ASHRAE is not currently in a position to start them due to budget constraints. David Yashar noted that cancellation of the show has hit the Research budget hard and stalled any new items at this time. Bill McQuade asked if any co-funding had been investigated at both the state and federal levels. Kishor Khankari noted that ASHRAE could approach private organizations if there was a list of work statements (WS's). Stephanie Reiniche stated that the project has to be identified before government funding can be pursued and that Technology Staff is working with the D.C. office and the Development Department to identify outside funding opportunities.

C. Environmental Health

Chair, Wei Sun, presented the EHC Report which is posted to Basecamp at [ASHRAE/Docs & Files/Meetings/11-13-2020 TechC Fall Meeting/ 05D-EHC F20](#).

It was moved by Wei Sun and seconded by Wade Conlan that:

- M3** EHC recommends that Lew Harriman chair the Limiting Indoor Mold and Dampness in Buildings Position Document Committee.

BACKGROUND: A revision to the current PD was authorized by BOD Ex-O at the 2020 virtual Annual Meeting. The Harriman bio was posted to basecamp (Attachment 05D-1). Harriman was recommended by co-cognizant TC 1.12 as well and has agreed to serve as chair.

TechC Vote: 13-0-0, CNV

Mr. Sun also reported on the Epidemic Task Force. The ASHRAE Epidemic Task Force (www.ashrae.org/covid19) continues to develop technical guidance, develop FAQs, do media and government outreach and other activities related to the COVID-19 epidemic. Over 1000 technical inquiries have been answered to date. The ETF is developing guidance in other building types and applications. There are now several states referencing guidance from the ETF in their regulations and resources. The ETF is looking forward seeking to identify research gaps and plan for eventual dissolution of the ETF.

D. Refrigeration CPCC

Chair, Yunho Hwang, presented the REF-CPCC report and it is posted on Basecamp at [ASHRAE/Docs & Files/Meetings/11-13-2020 TechC Fall Meeting/ 05F-REF-CPCC Rprt to TechC.20_r2](#).

It was moved by Heather Platt and seconded by Tim McGinn that:

- M4** The June 2020 ASHRAE Journal Article titled, *Indirect Evaporative Cooling Drives Data Center Efficiency*, by ASHRAE Member Paul Finch be awarded the George Briley Journal Award for SY 20-21.
Fiscal Impact: \$200.

TechC Vote: 13-0-0, CNV

Secretary's Note: Kishor Khankari left the meeting at 10:54 am changing the vote count to 12 plus chair.

AI#2 – OPS/Standing Committees to verify that virtual meetings are in all REF manuals.

E. Residential

Chair, Pat Graef, presented the RBC Report and it is posted on Basecamp at [ASHRAE/Docs & Files/Meetings/11-13-2020 TechC Fall Meeting/ 05F_RBC_Report_to_TechC_2020-11-13_F](#).

It was moved by Adrienne Thomle and seconded by Heather Platt Gullede that:

- M5** Residential Building Committee (RBC) recommends that Technology Council accept the Stakeholder Call Summary Report (PDF file: 05F_RBC_Stakeholder-call-summary-report-EAS-July-15-2020-F.pdf) and act on the recommendations as appropriate.

TechC Vote: 12-0-0, CNV

AI#3 – Staff/Bill McQuade to Distribute Stakeholder Summary Report to TechC chairs to review and make recommendations with cover letter from TechC Chair.

Ms. Graef reviewed RBCs activities noting that the Communications Subcommittee is working on initiatives to identify residential trends and communicate those to ASHRAE membership. Ways to communicate this information were discussed including issue briefs, position documents, and public policy issue briefs. It was suggested that a compilation of Joe Lstiburek articles from the ASHRAE Journal would be a good addition to the RBC webpage. Ms. Graef further reported that enthusiasm is high, and the committee is ready to move forward.

F. Standards

Chair, Dru Crawley, reviewed the Standards Report which can be found on Basecamp at [ASHRAE/Docs & Files/Meetings/11-13-2020 TechC Fall Meeting/ 05A StdC Report to TC Nov 4 2020](#). No motions were brought forward from Standards.

Dru Crawley reported that Standards Committee approved sending Addendum *a* (*unvented combustion heaters*) to Standard 62.2 back to the Board of Directors for publication approval. The vote in Standards Committee was not unanimous. Mr. Crawley reported that there was discussion that involved a review of the votes, the commenters including solutions and compromises, and the Standards Ad Hoc recommendation. Some members of Standards voted no for procedural reasons. There is no action required by Tech Council. The information is provided for members that are voting members of the Board of Directors. Others on Tech Council that were involved in the process also provided feedback.

6. SPECIAL COMMITTEE/LIAISON REPORTS

A. GAC Liaison Report

Steve Emmerich updated the Council on Government Affairs Committees activities noting that the work of the ETF is fantastic, and materials are being referenced in government regulations. This includes mandatory references in California and Virginia. GAC outreach has gone virtual in the current environment and has been successful. GAC is also having discussions about doing a PPIB related to building electrification and carbon metrics. In addition, GAC is working on the adoption of the IgCC and topics that relate to Standards 15 and 34.

B. Finance Liaison Report

Bill McQuade reported that an Ad Hoc was appointed outside the Society Finance Committee to evaluate projects and to develop metrics around gross margins where it makes sense. Some things will be viewed as successful if they provide member value. How that is determined is still being worked on. The Ad hoc is using a financial management approach, looking at long term effect, reviewing ways to identify dimensions on member value, and working on a list of projects.

7. DOT REPORT

Stephanie Reiniche gave an update on the new ASHRAE headquarters move and discussed the upcoming virtual Winter meeting schedule.

8. EXECUTIVE SESSION

Bill McQuade reminded all that December 8th was the deadline for lean assessment ideas to be provide to Dennis Knight and that even additional revenue ideas are welcome.

9. FOR THE GOOD AND WELL BEING

Bill McQuade ended the meeting asking all in attendance to share a short update on “what is happening in your life”. Each member gave a fun update.

There being no further business to come before the Technology Council, the meeting was adjourned at 12:55 PM.