

MINUTES

RESEARCH ADMINISTRATION COMMITTEE VIRTUAL MEETING SEPTEMBER 30TH & OCTOBER 2ND, 2024

Note: These draft minutes have not been approved and not the official, approved record until approved by the Research Administration Committee.

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PRINCIPAL MOTIONS RESEARCH ADMINISTRATION COMMITTEE SEPTEMBER 30th & OCTOBER 2nd, 2024

NG	D4.0-	MATION
NO.	PAGE	MOTION
1	1	the draft minutes of the RAC 2024 spring meeting be approved as drafted.
2	3	Paul Turnbull of TC 5.6, be awarded the 2024-2025 Service to ASHRAE Research Award.
3	3	1975-RTAR, Expanding ASHRAE Metabolic Rates Database for a Complete Lifespan (6-70y), sponsored by TC 2.01 (Physiology & Human Environment), be <u>accepted with comments.</u>
4	3	1976-RTAR, Ozone Removal Efficiency and Generation of Byproducts on VOC-Loaded Gas- Phase Air Cleaning Devices, sponsored by TC 2.03 (Gaseous Air Contaminants and Gas Contaminant Removal Equipment), be <u>accepted with comments.</u>
5	3	1811-WS, Determining Occupancy Patterns in Clusters of Buildings with Data Drawn from Web Based Social Media and Mobile Positions, sponsored by TC 1.05 (Emerging Computing Applications) & TC 7.10 (Occupant Behavior in Building Design and Operation), be returned.
6	4	1825-WS, Effects of Locally Provided Makeup Air, sponsored by TC 5.10 (Kitchen Ventilation), TC 5.03 (Roon Air Distribution) & TC 2.01 (Physiology and Human Environment) be conditionally accepted.
7	4	1851-WS, Dielectric Properties of Lower GWP Refrigerants, sponsored by TC 3.01 (Refrigerants and secondary Coolants), be returned.
8	4	1936-WS, Evaluation of relative impact of air change rate (ACR) and airflow patterns on the ventilation performance of indoor spaces, sponsored by MTG.ACR (Air Change Rate), be conditionally accepted.
9	4	1941-WS, Experimental Program to Update the ASHRAE <i>Duct Fitting Database (DFDB)</i> . TC 5.02 (Duct Design), be returned.
10	4	1970-WS, Study of Grout for Ground Heat Exchangers, sponsored by TC 6.08 (Geothermal Heat Pump and Energy Recovery Applications), be conditionally accepted.
11	4	1972-WS, Data Center Direct-to-Chip Liquid Cooling Resiliency – Failure Modes and IT Throttling Impacts, Liquid Cooling Energy Use Metrics and Modeling, sponsored by TC 9.09 (Mission Critical Facilities, Data Centers, Technology Spaces and Electronic Equipment), be returned.

New Action Items Research Administration Committee (RAC) Fall Meeting 2024

Action #	Responsibility	Summary of Action	Status			
1	Wen/Charneux	RAC would request feedback at Research Breakfast on how ASHRAE can get information about completed research out to members and public in layman's terms. Wen and Charneux would review and draft changes to Research Agreement as appropriate to implement this requirement (Action Item 1).				
2	Staff	Review current guidance and proposed changes in the ASHRAE Research Manual related to project co-sponsorship.				
3	RPS	Review point criteria for Service to ASHRAE Research Award and to also determine if rules multiple awards can be made in a year				
4	Staff	Provide a summary of current rules related to RAP and Research Strategic Plan development				

LIST OF ATTACHMENTS

Attachment A – RAC MBOs for 2024-2025

Attachment B – Background on CEC changes impact on Research Agreement Deliverables

RECURRING ACTION ITEMS (EACH MEETING)

Responsibility Summary of Action

Chair Report to Technology Council on RAC's MBO Status.

Research Liaisons Remind all TC chairs and research subcommittee chairs in section that a draft of all

Work Statement and RTARs, and all later versions should be sent to their Research Liaison for review before information is passed on to the Manager of Research.

RPS (Primary)

Review RTARs

RAS (Secondary)

Review Work Statements

RAS (Primary) RPS (Secondary)

RAS (Primary) Review TRPs and URPs

RPS (Secondary)

RPS (Primary) Review and revise the Society's Research Implementation Plan based upon

(Secondary) accepted RTARs.

Subcommittee

Chairs

Report Status of assigned MBOs.

Staff Distribute copies of Technology Council's Action Items and Motions affecting RAC.

BOD ExO Report to the RAC Chair BOD's Actions and Motions affecting RAC.

Staff Forward URPs to RAS Chair to help identify a champion for the URP on RAC based

on members background and experience. The RAC URP Champion will either help select a cognizant TC to review the URP or return the URP with a recommendation

that it not be reviewed further as a possible ASHRAE research project.

RECURRING ACTION ITEMS (FALL MEETING)

Responsibility Summary of Action

RAS Initial Plan for Research Breakfast Workshop for Winter Meeting

RLs Review "Service to ASHRAE Research Award" nominations submitted by TC

chairs and select the best nomination for RAC consideration.

MORTS Prepare semi-annual report to RAC by December 15.

RECURRING ACTION ITEMS
(WINTER MEETING)

Responsibility Summary of Action

RPS Review New Investigator Award Nominations

RPS Review Homer Addams Award Nominations

RPS Review Innovative Research Grant (IRG) Pre-Proposals

MORTS Prepare semi-annual report to RAC by May 15.

RECURRING ACTION ITEMS (SPRING MEETING)

Responsibility Summary of Action

RPS Plan workshop for new RAC members at the Annual meeting.

RPS Review Grant-In-Aid Applications

RECURRING ACTION ITEMS
(ANNUAL MEETING)

Responsibility Summary of Action

Chair Invite new RAC members to meeting and any training sessions at meeting.

Incoming Chair Finalize MBOs and roster assignments. Set date for fall meeting.

RAS Review Invited Innovative Research Grant (IRG) Full-Proposals



MINUTES

RESEARCH ADMINISTRATION COMMITTEE SEPTEMBER 30th & OCTOBER 2nd, 2024

MEMBERS PRESENT:

Natascha Milesi-Ferretti, Chair
Jin Wen, Vice-Chair
Roland Charneux, RPS Chair
James Bogart, RAS Chair
Srinivas Katipamula, RL Section 1.0
Chris Gray, RL Section 2.0
Zheng O'Neill, RL Section 3.0
Dennis Landsberg, RL Section 4.0
Matthew Mullen, RL Section 6.0
James Bogart, RL Section 7.0
Carl Huber, RL Section 8.0
Connor Murray RL Section 9.0
WenBin Ng, RL Section 10.0
Susanna Hanson, BOD Ex-O

ABSENT MEMBERS

Doug Scott, *RL Section 5.0*Wade Conlan, *Coord. Officer*Hywel Davies, *Consultant*Xudong Wang, *Consultant*

GUESTS:

None

ASHRAE STAFF

Steve Hammerling, MORTS Donna Daniel, AMORTS

A. CALL TO ORDER & INTRODUCTIONS

Chair Milesi-Ferretti called the meeting of the committee to order on Monday, September 30, 2024, at 9:00 AM EDT. Attendees introduced themselves. Quorum was confirmed by staff.

B. ADDITIONS AND/OR CHANGES TO THE AGENDA

Milesi-Ferretti added agenda items E.e PES training and E.f RP co-funding under Chair's report.

C. ASHRAE VALUE STATEMENT

In ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment, integrity, collaboration, volunteerism and diversity, and shall avoid all real or perceived conflicts of interest. Our culture is one of inclusiveness, acknowledging the inherent value and dignity of each individual. We celebrate diverse and inclusive communities, understanding that doing so fuels better, more creative and more thoughtful ideas, solutions and strategies for the Society and the communities our Society serves. We respect and welcome all.

Code of Ethics - www.ashrae.org/about/governance/code-of-ethics **Core Values -** www.ashrae.org/about/ashrae-s-core-values **Diversity Statement -** www.ashrae.org/about/diversity-equity-and-inclusion-dei

D. APPROVAL OF 2024 ANNUAL MEETING DRAFT MINUTES

It was moved and seconded that,

(1) the draft minutes of the RAC 2024 spring meeting be approved as drafted.

MOTION 1 PASSED: 12-0-0-1 CNV

E. CHAIR'S REPORT

a) Disposition of Motions from Last Meeting
 No motions from the Annual Meeting required higher body approval.

b) Discussion of Strategic Plan

This was deferred to second part of RAC meeting. Members were asked to review for Wednesday.

c) MBOs

RAC MBOs for 2024-2025 were presented as **Attachment A.** All members were asked for feedback.

RAC would request feedback at Research Breakfast on how ASHRAE can get information about completed research out to members and public in layman's terms. Wen and Charneux would review and draft changes to Research Agreement as appropriate to implement this requirement (**Action Item 1**).

- d) Discussion about the possibility of eliminating technical papers as a contractual requirement Information on the CEC proposal is included as **Attachment B**. Staff would send a summary of the RAC discussion to CEC:
 - RAC is OK with removing the option technical paper deliverable in the ASHRAE Research Agreement. This can be easily done with RAC approval
 - RAC would keep option for STBE as a deliverable and encourage this option
 - There is a debate within RAC if a Conference Paper submission or Conference Paper approval/presentation would be a deliverable option
 - Already signed Research Agreements still require Technical Paper or STBE submission as a deliverable.
 - RAC recommends that CEC continues research sessions at ASHRAE Conferences to feature ASHRAE research results.

e) PES training – Work Statement check

PES training was posted to RAC Basecamp. There was a discussion on how RAC could require PES members to review this training. Options discussed included a check box on WS form, coordination with RL and requiring PES chair to verify their committee members have reviewed training.

f) RP co-funding

Staff would review current guidance and proposed changes in the ASHRAE Research Manual related to project co-funding (**Action Item 2**). TCs are being asked to seek co-funding and provide contact information of organizations that may have an interest, but a formal process and timeline should be developed to assure opportunities are maximized, and that funding is committed to and secured as appropriate time in research process.

F. TRPs THAT COULD POTENTIALLY BID FALL 2024 - RAS Lead

Sufficient funds exist in RAC's FY24-25 budget to fund the 8 projects below. Projects would be released for bid October 15th and due December 15th. RAC could approve selected bids at Winter Meeting.

- a) 0003-WSP, Design Guide for Radiant Heating and Cooling Systems, Responsible Committee TC 6.5 Radiant Heating and Cooling; Co-Sponsors: None Co-funding: None; Estimated Duration: 24 months: Estimated Cost to ASHRAE: \$100.000
- b) 1566-TRP-R, Equations to estimate evaporation rates from heated water pools in indoor recreational aquatic facilities; Responsible Committee: TC 8.10 (Mechanical and Desiccant Dehumidification Equipment, Heat Pipes and Components); Co-Sponsors: TC 9.8, (Large Building and Air Conditioning Application); Co-funding: None; Estimated Duration: 24 months; Estimated Cost to ASHRAE: \$200,000
- c) 1909-TRP, In-Tube Condensing Flue Gas Heat Transfer and Pressure Drop with Enhancements for Residential Furnaces; Responsible Committee: TC 1.03 (Heat Transfer and Fluid Flow); Co-Sponsors: TC 6.03 (Residential and Light Commercial Forced Air Heating and Cooling Systems); Co-funding: None; Estimated Duration: 30 months; Estimated Cost to ASHRAE: \$245,500
- d) 1910-TRP, Evaluation of Standard 103 Transient Components and Thermostat Cycle Times on the Resulting AFUE (rebid); Responsible Committee: TC 6.03, (Residential and Light Commercial Forced Air Heating and Cooling Systems); Co-Sponsors: None; Co-funding: None; Estimated Duration: 36 months; Estimated Cost to ASHRAE: \$235,000
- e) 1913-TRP, Study of the Corrosion Impact on Information Technology Equipment in Data Centers Located in Coastal Regions with High Sea Salt Concentration; Responsible Committee: TC 9.9 (Mission Critical Facilities, Data Centers, Technology Spaces and Electronic Equipment); Co-Sponsors: TC 2.03 (Gaseous Air Contaminants and Gas Contaminant Removal Equipment), TC 2.04 (Particulate Air Contaminates and Particulate Contaminant Removal Equipment); Estimated Duration: 24 months; Estimated Cost to ASHRAE: \$280,000
- f) 1915-TRP, Refrigerated Facilities Doorway Infiltration Air Energy Reduction; Responsible Committee: TC 10.02 (Refrigeration Applications); Co-Sponsors: None); Co-funding: None; Estimated Duration: 22 months; Estimated Cost to ASHRAE: \$300,000
- g) 1947-TRP, Climate change driven extreme temperature effects for efficiency and resilience map of heat pump technology; Responsible Committee: TC 2.05 (Global Climate Change); Co-Sponsors: TC 4.2 Climatic Information; TC 2.8 Building Environmental Impacts and Sustainability Co-funding: None; Estimated Duration: 36 months; Estimated Cost to ASHRAE: \$265,000
- h) 1964-TRP, Optimizing Heating System Performance in Warmup and Setback Modes;

 <u>Responsible Committee</u>: TC 1.04 (Control Theory and Application); <u>Co-Sponsors</u>: TC 7.05
 (Smart Building Systems) None; <u>Co-funding</u>: None; <u>Estimated Duration</u>: 24 months; <u>Estimated</u>
 Cost to ASHRAE: \$280,000
- G. <u>SERVICE TO ASHRAE RESEARCH AWARD NOMINATIONS RPS Lead</u>
 There were three nominations received for the Service to ASHRAE Research Award.

It is moved and seconded that,

(2) Paul Turnbull of TC 5.6, be awarded the 2024-2025 Service to ASHRAE Research Award.

MOTION 2 PASSED: 12-0-0-1 CNV

RPS was asked to review point criteria for Service to ASHRAE Research Award and to determine if rules multiple awards can be made in a year (Action Item 3).

H. RTAR REVIEW

RAC reviewed two RTARs for this meeting, both were accepted with comments. Comments and questions from RAC should be addressed to the satisfaction of the Research Liaison (RL) in the Work Statement draft.

It is moved and seconded that,

(3) 1975-RTAR, Expanding ASHRAE Metabolic Rates Database for a Complete Lifespan (6-70y), sponsored by TC 2.01 (Physiology & Human Environment), be <u>accepted with</u> comments.

MOTION 3 PASSED RAC: 12-0-0-1 CNV

It is moved and seconded that,

(4) 1976-RTAR, Ozone Removal Efficiency and Generation of Byproducts on VOC-Loaded Gas-Phase Air Cleaning Devices, sponsored by TC 2.03 (Gaseous Air Contaminants and Gas Contaminant Removal Equipment), be accepted with comments.

MOTION 4 PASSED RAC: 12-0-0-1 CNV

I. WORK STATEMENT REVIEW

RAC reviewed a total of seven new and revised work statements that were submitted to RAC. Four were returned with comments and three were conditionally accepted. RAC approval conditions should be addressed to the satisfaction of the Research Liaison (RL) in either written responses or revisions to the work statement.

It is moved and seconded that,

(5) 1811-WS, Determining Occupancy Patterns in Clusters of Buildings with Data Drawn from Web Based Social Media and Mobile Positions, sponsored by TC 1.05 (Emerging Computing Applications) & TC 7.10 (Occupant Behavior in Building Design and Operation), be returned.

MOTION 5 PASSED RAS: 5-0-0-1 CNV

It is moved and seconded that.

(6) 1825-WS, Effects of Locally Provided Makeup Air, sponsored by TC 5.10 (Kitchen Ventilation), TC 5.03 (Roon Air Distribution) & TC 2.01 (Physiology and Human Environment) be conditionally accepted.

MOTION 6 PASSED RAC: 12-0-0-1 CNV

It is moved and seconded that.

(7) 1851-WS, Dielectric Properties of Lower GWP Refrigerants, sponsored by TC 3.01 (Refrigerants and secondary Coolants), be <u>returned</u>.

MOTION 7 PASSED RAS: 5-0-0-1 CNV

It is moved seconded that.

(8) 1936-WS, Evaluation of relative impact of air change rate (ACR) and airflow patterns on the ventilation performance of indoor spaces, sponsored by MTG.ACR (Air Change Rate), be conditionally accepted.

MOTION 8 PASSED RAC: 12-0-0-1 CNV

It is moved and seconded that,

(9) 1941-WS, Experimental Program to Update the ASHRAE *Duct Fitting Database (DFDB)*. TC 5.02 (Duct Design), be <u>returned</u>.

MOTION 9 PASSED RAS: 6-0-0

It is moved and seconded that,

(10) 1970-WS, *Study of Grout for Ground Heat Exchangers*, sponsored by TC 6.08 (Geothermal Heat Pump and Energy Recovery Applications), be <u>conditionally accepted.</u>

MOTION 10 PASSED RAC: 11-0-0-1 CNV

RAC Meeting was recessed at approximately 11:00 AM EDT on September 30, 2024.

RAC Meeting was reconvened at approximately 9:00 AM EDT on October 2, 2024.

It is moved and seconded that,

(11) 1972-WS, Data Center Direct-to-Chip Liquid Cooling Resiliency – Failure Modes and IT Throttling Impacts, Liquid Cooling Energy Use Metrics and Modeling, sponsored by TC 9.09 (Mission Critical Facilities, Data Centers, Technology Spaces and Electronic Equipment), be returned.

MOTION 11 PASSED RAS: 5-0-0-1 CNV

J. NEW BUSINESS

Discussion of ASHRAE Strategic Plan

Hanson noted that a sub team of the ASHRAE Board of Directors is working with a third party on the development of the next ASHRAE Strategic Plan. The new plan would start in 2025. A draft is not ready to share with RAC but would be made available for review and comment after the Fall Board of Directors meeting.

Discussion of ASHRAE Research Strategic Plan

The current ASHRAE Research Strategic Plan runs through 2025. Traditionally, RAC has recommended a Research Advisory Panel (RAP), appointed by the Board of Directors, to develop the Research Strategic Plan.

Past RAC chair, Bill Murphy noted the rules for RAC to develop the RAP are no longer in the Tech Council Manual of Procedures. Murphy was asked to explore if RAP should be a standing subcommittee of RAC to avoid reconstituting this committee and to help assure quicker development time. This would require changes to RAC ROB and current procedures for developing this Research Strategic Plan. RAC would continue to explore. Staff would provide a summary of current rules related to RAP and Research Strategic Plan development (Action Item 4).

Discussion of Automated Research portal

Staff noted the vendor would provide a demo on Friday October 4th to review the RTAR, WS, and TRP portions of the automated research portal. Testing would be done in a phased schedule by RAC members, then TC members. A specific timeline can be provided after meeting with vendors on Friday.

K.

ADJOURNMENT
The meeting of the Research Administration Committee was adjourned at approximately 9:30 AM EDT.

MBO Submission to Planning

2024-2025 Update submission 10/2/2014

Council: Technology Council

Committee: Research Administration Committee (RAC)

Chair: Natascha Milesi-Ferretti
Vice-chair: Jin Wen

	Description								Strategic Plan Tally								
MBO#		Metric	Initiative #	Goal #	Completion % /Date	% Financial Assist Reg'd?	MBO Comments		Initiativ	e #		Goal	1	Goal 2		Goa	13
		(how do we determine success?)			, Dute	neq u.		1	2	3	4	а	b a	b	c a	b	, (
1	Collaborate with ASHRAE web developer to develop effective online research project development and tracking system.	Success will be when the web based system has been completed and fully implemented.	3	3b	65% as of 10/1/2024	yes	This system will streamline research project development and provide real time tracking of RTAR, WS, TRP, and RP status to appropriate groups. The online portal will replace file sharing via e-mail attachments between TC members, RAC, PES and PMS committees, and ASRARE ARC staff and eliminate confusion from multiple file versions in circulation. Have solicited limited TC and RAC members for beta testing and debugging. UPDATE: 10.2.24 - Staff getting demo from vendor Oct 4 on RTAR, WS, TRP stages. Will recruit RAC members and then TCs to run testing. Aim is for tool to be ready for beta testing in ORL			х						x	
2	improve dissemination of research results through effective creation of research based publications.	Implement PTAR process in coordination with Publications Committee	3, 4	1b, 2b, 3b	Complete 10/1/2024	no	Implementation processes have been developed but may require additional changes to improve coordination between RAC and Publications Committee. Recent changes in the management of standards user manual updates will reduce the need for their funding through RAC. Conditionally accepted first work statement for publication (WSP) at annual meeting. Update 10/2/2024 - First even TRP for publication to go out for bid			х	х		х	х		x	
3	Review and update documents on Basecamp and Research website.	Consistent set of procedural and reference documents available on Basecamp and all ASHRAE websites.	3	3b	Complete 10/1/2024	no	RAC procedural and reference documents routinely undergo minor revisions to clarify or improve their effectiveness. It i important that all locations that contain these documents contain the same information. Update 6/25/2024 - ASHRAE staff (Donna) has expanded and updated support documents on the Research page of ashrae.org. A few additional updated training videos will be developed and added soon. 8/1/2024 - Added PMS Training video.	5		х						×	
4	Expand TC involvement in identifying, communicating with, and obtaining interested bidders	Revisions to Research Manual and communications at research breakfast to notify research subcommittee chairs	3	3b	Complete 10/1/2024	no	Since the pandemic, multiple TRPs have gone out for bid, some for multiple times, with no bids being received. It is important that the technical experts have greater communications with potential bidders to ensure good responses to research proposals. The WS cover sheet should be modified to ensure all groups uniformly adopt and implement this policy. Staff used social media outlets to publicize research projects being bid in fall 2023, resulting in the largest numbe of bids ever being received (one TRP alone received 16 bids). TCs were encouraged to communicate with potential bidders in advance of listing them, but it was felt that no changes to WS requirements were needed. No changes to Research Manual required. Update 10/2/2024 - RAC will duplicate efforts used last time for October bids.	г		х						×	
5	Expand TC involvement in identifying, communicating with, and obtaining project co-funding support at the work statement review stage	Identify suitable levels of involvement for TCs to solicit and secure potential co-funding sources for ASHRAE research projects prior to TRPs being put out for bid. Revisions included in Research Manual.	3	1b, 2b, 3a, 3b	95% as of 7/1/2024	no	The current process for co-funding usually has MORTS contact the potential co-funder prior to finalizing the research contract. Since many of the technical experts collaborate in other ways with these potential co-funders, it may be more effective to have them more actively involved in soliciting co-funding support prior to TRPs going out for bid. TCs will solicit support letters without firm financial commitments from potential co-funding sources that will be included with their first draft WS. Changes to the RAC Research Manual have been drafted giving guidance on how such support letter should be obtained and documented. Changes need final reviews before incorporation. UPDATE: 10/2/2024 - Staff working to update formal guidance and timeline for project cosponsorship.	5		х			х	х		×	:)
6	Provide updated guidelines for research project work statement budget estimating.	Updated budget estimating guidelines placed on the ASHRAE research website.	3	3b	90% as of 7/1/2024	no	Current guidelines for budget estimating were last updated over 5 years ago. The recent spike in inflation as well as university tuition and wage rates require these guidelines be updated and made more applicable to various types of research activities. Update 6/25/2024 - Decided to keep current single budget number requirement for WS, but to develop and annually update cost data for various budget categories so TCs can provide better estimates for project costs. Cost information will likely be provided on the research website and discussed at annual research breakfast meetings. No changes to Research Manual are required. UPDATE: 10/1/2024 Annual update to slide for reasonable budget estimates to be prepared for 1/1/2025.				x		х	x		×	
7	ldentify the best mechanism to provide a data repository for RPs	Create the framework design or identify existing infrastructure.	4	1b,2b, 3b	new	no	There is a need for standardized requirements or guidelines for documenting/formatting. Potentially establish new contract language to get data in a more generally usable format. UPDATE: 10/2/2024 RAC to explore how data from research projects can be submitted in a universal or accessible format and document in Research Manual				x		x	x		x	
8	Establish new requirements for lay description of research projects and , best research findings from Research chairs.				new	no	UPDATE: 10/2/2024 - Action Item for RAC to request feedback at Research Breakfast on how ASHRAE can get information about completed research out to members and public in layman's terms. RAC members would review and draft changes to Research Agreement as appropriate to implement this requirement.						3 0				

From: Hammerling, Steve <shammerling@ashrae.org> **Sent:** Thursday, September 12, 2024 10:40:22 AM

To: Milesi-Ferretti, Natascha S. (Fed) <natascha.milesi-ferretti@nist.gov>; Wen,Jin

<jinwen@drexel.edu>

Cc: Daniel, Donna <ddaniel@ashrae.org>

Subject: RAC research agreement - Technical Papers

Hi Natascha & Jin,

I received a note from a staffer in our Conferences & Expositions Committee (CEC) noting that they are discussing the possibility of discontinuing ASHRAE Technical Papers. This would mean Conference Papers would be the only papers presented at ASHRAE conferences. They reached out to me for RAC and Staff input on the matter. If OK with you, we can include on agenda for upcoming RAC.

Currently, a Technical Paper is a research agreement deliverable (General Conditions IV.c) so this would have to be changed if CEC did eliminate the Technical Paper.

GENERAL CONDITION IV - DELIVERABLES

Progress, Financial and Final Reports, Research or Technical Paper(s), and Data shall constitute the only deliverables "Deliverables") under this Agreement and shall be provided as follows:

 Science and Technology for the Built Environment or ASHRAE Transactions Technical Papers

One or more papers shall be submitted first to the ASHRAE Manager of Research and Technical Services (MORTS) and then to the "ASHRAE Manuscript Central" website-based manuscript review system in a form and containing such information as designated by the Society suitable for publication. Papers specified as deliverables should be submitted as either Research Papers for Science and Technology for the Built Environment or Technical Paper(s) for ASHRAE Transactions. Research papers contain generalized results of long-term archival value, whereas technical papers are appropriate for applied research of shorter-term value. ASHRAE Conference papers are not acceptable as deliverables from ASHRAE research projects. The paper(s) shall conform to the instructions posted in "Manuscript Central" for an ASHRAE Transactions Technical or Science and Technology for the Built Environment papers. The paper title shall contain the research project number (XXXX-RP) at the end of the title in parentheses, e.g., (XXXX-RP).

All papers or articles prepared in connection with an ASHRAE research project, which are being submitted for inclusion in any ASHRAE publication, shall be submitted through the Manager of Research and Technical Services first and not to the publication's editor or Program Committee.

Also, there are differences in format and review process for Conference Papers vs. Technical Papers, summarized here:

Technical Paper

Technical Papers undergo a rigorous double-blind review and must be approved by three reviewers knowledgeable in the subject matter.

- Technical Papers can be up to 30 double-spaced manuscript pages in length, including tables and charts, and a maximum of 12 figures (not counted in the page count).
- The Technical Papers must be presented at the conference (poster or orally) in order to be published in ASHRAE Transactions, where they will be included with questions and answers (if any).

Conference Papers

- Conference Papers undergo a single-blind review (reviewers are anonymous) shorter than Technical Papers, undergo a less stringent review and can be prepared closer to the conferences.
- Abstracts of Conference Papers are submitted first for review. Upon acceptance, papers are due three months after abstract acceptance
- Must be approved by two reviewer knowledgeable in the subject matter.
- Upon approval, papers are scheduled for oral presentation.
- Conference Papers can be no more than 8 single-spaced pages in length total (includes text, tables, figures, etc.). This page count does not include references.

CEC as mentioned the possibility of a Research Conference Paper with an extended length requirement, possibly other modifications) if the shorter length is a concern. At this time, CEC is just seeking RAC input on the idea.

There is a GIA requirement for a peer-reviewed paper to receive a third payment as well. This doesn't state if the paper has to be a technical paper or conference paper, just that it should be peer reviewed, so I interpret that either would be sufficient.

Thanks!

Steve