



Shaping Tomorrow's
Built Environment Today

MINUTES

**RESEARCH ADMINISTRATION COMMITTEE MEETING
HILTON ORLANDO
ORLANDO, FLORIDA**

FEBRUARY 8TH & FEBRUARY 12TH, 2025

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
FEBRUARY 8th & FEBRUARY 12th, 2025**

NO.	PAGE	MOTION
1	2	the draft minutes of the RAC 2024 fall meeting be approved as drafted
2	4	0001-WSP, <i>Update of ASHRAE Publication: Application of Manufacturers' Sound Data @1998</i> , sponsored by TC 2.6 (Sound & Vibration), <u>be conditionally accepted.</u>
3	4	1811-WS, <i>Determining Occupancy Patterns in Clusters of Buildings with Data Drawn from Web Based Social Media and Mobile Positions</i> , sponsored by TC 1.5, (Emerging Computing Applications), <u>be conditionally accepted.</u>
4	4	1882-WS, <i>Procedure for Estimating Occupied Space Sound Levels in the Application of UFAD Air Terminals and Air Outlets</i> , sponsored by TC 2.6 (Sound and Vibration), <u>be conditionally accepted.</u>
5	4	1955-WS, <i>Healthcare Anteroom Ventilation</i> , sponsored by TC 9.6 (Health Care Facilities), <u>be returned with comments.</u>
6	4	1977-WS, <i>Expand and update the ASHRAE Service Life Table in the HVAC Applications Handbook</i> , sponsored by TC 2.8 (Building Environmental Impacts and Sustainability), <u>be returned with comments.</u>
7	5	the following IRG pre-proposals be invited to submit full IRG proposals; #001 (Moftakhari) & #003 (Sommers).
8	5	Dr. Cary Faulkner of the University of Colorado - Boulder be awarded the 2024-2025 Homer Addams Award.
9	5	Dr. Yungyang Ye of the University of Alabama be awarded the 2024-2025 New Investigator Award.
10	6	RAC award 0003-TRP , <i>Design Guide for Radiant Heating and Cooling System</i> , to Technical University of Denmark, for a period of 24 months at a total cost to ASHRAE of \$77,812
11	6	RAC award 1909-TRP , <i>In-Tube Condensing Flue Gas Heat Transfer and Pressure Drop with Enhancements for Residential Furnaces</i> , be awarded to Creative Thermal Solutions, for a period of 30 months at a total cost to ASHRAE of \$235,000.
12	7	RAC award 1947-TRP , <i>Climate change driven extreme temperature effects for efficiency and resilience map of heat pump technology</i> , to the University of Alabama, for a period of 36 for a total cost to ASHRAE of \$138,732.
13	7	RAC award 1964-TRP , <i>Optimizing Heating System Performance in Warmup and Setback Modes</i> , to Louisiana State University, for a period of 24 for a total cost to ASHRAE of \$195,301
14	7	RAC recommends that Tech Council appoint the following members to the Research Advisory Panel (RAP):
15	8	RAC revise the Reference Manual as shown.

**RECURRING ACTION ITEMS
(EACH MEETING)**

<u>Responsibility</u>	<u>Summary of Action</u>
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) RAS (Secondary)	Review RTARs
RAS (Primary) RPS (Secondary)	Review Work Statements
RAS (Primary) RPS (Secondary)	Review TRPs and URPs
RPS (Primary) (Secondary)	Review and revise the Society's Research Implementation Plan based upon 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
(WINTER MEETING)

<u>Responsibility</u>	<u>Summary of Action</u>
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.

LIST OF ATTACHMENTS

A - 2024-2025 RAC MBOs

B – Planning Committee presentation

C – PEAC presentation

D – RAC Reference Manual changes



Shaping Tomorrow's
Built Environment Today

MINUTES

RESEARCH ADMINISTRATION COMMITTEE FEBRUARY 8th & FEBRUARY 12th, 2025

MEMBERS PRESENT:

Natascha Milesi-Ferretti, Chair
Jin Wen, Vice Chair
James Bogart Chair RAS
Roland Charneux, Chair RPS
Srinivas Katipamula, RL Section 1.0, RPS
Chris Gray, RL Section 2.0, RPS
Zheng O'Neill, RL Section 3.0, RAS
Dennis Landsberg, RL Section 4.0, RAS
Douglas Scott, RL Section 5.0, RPS
Matthew Mullen, RL Section 6.0, RAS
Allen Kirkwood, RL Section 7.0, RAS
Carl Huber, RL Section 8.0, RPS
Conor Murray, RL Section 9.0, RPS
WenBen Ng, RL Section 10.0, RAS
Xudong Wang, AHRI Consultant
Susanna Hanson, BOD Ex-Officio

GUESTS:

Carrie Brown
Joshua DeYoung
Kristen Cetin
Tempezze Francis
Peter Luttk
Farhan Mehboob
Andrea Russell
Som Shrestha

ASHRAE STAFF:

Donna Daniel
Steve Hammerling
Leigh-Lane Walker

MEMBERS ABSENT:

Anastasia Mylona, CIBSE Consultant
Wade Conlan, Coordinating Officer

A. CALL TO ORDER & INTRODUCTIONS

Chair Milesi-Ferretti called the meeting of the committee to order Saturday, February 12, 2025, at 8:00 AM EST. Members and guests in the room introduced themselves. RAC quorum was confirmed.

B. 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 - <https://www.ashrae.org/about/governance/code-of-ethics>

Core Values - <https://www.ashrae.org/about/ashrae-s-core-values>

Diversity Statement - <https://www.ashrae.org/about/diversity-equity-and-inclusion-dei>

C. ADDITIONS AND/OR CHANGES TO THE AGENDA

No changes were made to the agenda distributed ahead of the meeting.

D. APPROVAL OF FALL 24 MINUTES (SEP 30TH & OCT 2ND)

It was moved (Wen) and seconded (Kirkwood) that,

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

MOTION 1 PASSED RAC: 13-0-0 CNV

E. CHAIR'S REPORT

- a) Disposition of Motions from Last Meeting or Letter Ballots:
No motions required higher approval
- b) RAC approved the following eight Research Projects for Bid solicitation at their RAC 2024 Fall Meeting:
 1. **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
 2. **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
 3. **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
 4. **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
 5. **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
 6. **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
 7. **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
 8. **1964-TRP**, *Optimizing Heating System Performance in Warmup and Setback Modes*; Responsible Committee: TC 1.04 (Control Theory and Application); Co-Sponsors: TC 7.05 (Smart Building Systems) None; Co-funding: None; Estimated Duration: 24 months; Estimated Cost to ASHRAE: \$280,000
- c) **New & On-going Action Items Assigned by Tech. Council**
 1. Better support Research Promotion in raising funds for ASHRAE research program.
 2. MBO Status Report

MBOs would be discussed as they arise on the agenda and with action item discussion. A status report of the 2024-2025 RAC MBOs (**Attachment A**). would be reported to OPS.

3. Provide list of recommendations for members to RAP
This topic would be discussed under agenda item I.
4. CEC technical paper requirement and PMS member review
CEC member Kristen Cetin discussed changes to the ASHRAE conference program, including the elimination of the ASHRAE Technical Paper in favor of the Conference Paper. This would affect research and the list of deliverables which now includes a Technical Paper. RAC understood changes and would have to modify research agreements going forward. RAC would reach out on ongoing projects to communicate the change and work something out.

Also, while Technical Papers have had a member of the PMS to review, Conference Papers would not need this. However, it was suggested that the PMS may wish to review the conference paper before submission to assure it was ready for presentation.

F. BOD EX-OFFICIO & COORD OFFICER – HANSON & CONLAN

Susanna Hanson, BOD Ex-Officio would give PEAC presentation at Wednesday Meeting. Wade Conlan, Coordinating Officer was unable to attend.

G. ACTION ITEM TRACKING AND PRELIMINARY REVIEW OF FALL ACTIONS & 24-25 MBOs

Action items and MBOs would be discussed as they arise on the agenda.

H. Proposed & Possible ROB, MOP, Reference Manual, Research Manual or Website Changes & Other Items for Discussion Milesi-Ferretti & Wen Lead

- a) Potential changes to enable awarding more than one Service to ASHRAE Research Award

RAC discussed if multiple awards could be given if there were multiple qualified candidates. Charneux suggested considering that anyone with 20 points receive the award. Staff estimated the cost of the award plaque at \$150.

Charneux would markup changes to the Service to ASHRAE Research Award in the RAC Reference Manual for RAC to formally consider at the Wednesday meeting (**Action Item #1**).

- b) Addition of RAP responsibilities to RAC Reference Manual

RAC will discuss a recommended RAC roster later on the agenda. Eventually, a broader review of the rules for formation, approval, the RAC MOP, Reference Manual and other rules documents should occur.

- c) Planning Committee presentation

Farhan Mehboob gave a presentation (**Attachment B**) from the Planning Committee. The Planning Committee is tasked to develop and maintain ASHRAE long range and strategic planning activities. ASHRAE committees and TCs are asked to align their goals and MBOs to align with the ASHRAE Strategic Plan. RAC members are asked to reach out to offer input.

I. RESEARCH ADVISORY PANEL (RAP) RECOMMENDATIONS

A list of possible RAP members was generated before this meeting. Thanks to all who contributed. RAC reviewed and discussed this list in the meeting. Wen agreed to categorize the list and propose a list of nominees and alternates for the Wednesday RAC meeting (**Action Item #2**). RAC could

potentially approve a list of members and alternates and report to Technology Council. RAC would follow up with potential members after the Winter Meeting to confirm their willingness to participate.

J. RTAR REVIEW

RTAR Review (0 new & revised RTARs) – RPS Chair Charneux Lead

There were no RTARs sent to RAC for review in Orlando. RAC will note this and encourage RTAR submissions at Research Subcommittee Breakfast.

K. Work Statement Review

Work Statement review (4 new & 1 publication WSs) – RAS Chair BOGART Lead

It was moved (RAS) that,

- (2) 0001-WSP, *Update of ASHRAE Publication: Application of Manufacturers' Sound Data @1998*, sponsored by TC 2.6 (Sound & Vibration), be conditionally accepted.

MOTION 2 PASSED RAC: 13-0-0-1 (14) CNV

It was moved (RAS) that,

- (3) 1811-WS, *Determining Occupancy Patterns in Clusters of Buildings with Data Drawn from Web Based Social Media and Mobile Positions*, sponsored by TC 1.5, (Emerging Computing Applications), be conditionally accepted.

MOTION 3 PASSED RAC: 13-0-0-1 (14) CNV

It was moved (RAS), that,

- (4) 1882-WS, *Procedure for Estimating Occupied Space Sound Levels in the Application of UFAD Air Terminals and Air Outlets*, sponsored by TC 2.6 (Sound and Vibration), be conditionally accepted.

MOTION 4 PASSED RAC: 13-0-0-1 (14) CNV

It was moved and seconded that,

- (5) 1955-WS, *Healthcare Anteroom Ventilation*, sponsored by TC 9.6 (Health Care Facilities), be returned with comments.

MOTION 5 PASSED RAS: 5-0-0-1 (6) CNV

It was moved and seconded that,

- (6) 1977-WS, *Expand and update the ASHRAE Service Life Table in the HVAC Applications Handbook*, sponsored by TC 2.8 (Building Environmental Impacts and Sustainability), be returned with comments.

MOTION 6 PASSED RAS: 5-0-0-1 (6) CNV

L. Innovative Research Grant Pre-Proposals Folder (4 pre-proposals) – RPS Chair CHARNEUX Lead

It was moved (RPS) that,

- (7) the following IRG pre-proposals be invited to submit full IRG proposals; #001 (Moftakhari) & #003 (Sommers).

MOTION 7 PASSED RAC: 13-0-0-1, (14) CNV

M. Homer Adams Award (1) – RPS Chair CHARNEUX Lead

It was moved (RPS) that,

(8) Dr. Cary Faulkner of the University of Colorado - Boulder be awarded the 2024-2025 Homer Addams Award.

MOTION 8 PASSED RAC: 13-0-0-1, (14) CNV

N. New Investigator Award (16 nominees) – RPS Chair CHARNEUX Lead

Fifteen nominations were received for the 2024-2025 New Investigator Award.

It was moved (RPS) that,

(9) Dr. Yungyang Ye of the University of Alabama be awarded the 2024-2025 New Investigator Award.

MOTION 9 PASSED RAC: 13-0-0-1, (14) CNV

O. RESEARCH SUBCOMMITTEE CHAIR'S BREAKFAST

RAC decided on outline for RAC/Research Subcommittee chair breakfast Announcements:

- RAC Objectives and Membership
- Budget update and Activity
- Research Promotion
- ASHRAE Strategic Plan and Research Advisory Panel
- Writing proposals
- Evaluating and Monitoring Projects
- Awards
- Summary

Slides for the presentation would be posted to ASHRAE Research Subc Chairs Basecamp - <https://3.basecamp.com/3106353/projects/25778014>.

RL's would review list of Reminders for TCs in breakout sessions.

P. CONSULTANTS REPORTS

a) AHRI – Xudong Wang gave brief report

b) CIBSE – Anastasia Mylona was not in attendance

MEETING RECESSED UNTIL PART B Wednesday morning

WEDNESDAY, FEBRUARY 10TH, 2025
7:00 AM - 10:00 AM EST
HILTON ORLANDO, FL
LAKE FLORENCE B, (LOBBY LEVEL)

Q. Tentative Research Projects (7 TRPs) – RAS Chair BOGART Lead

TRP Review Assignments & Potential Conflicts-of-Interest (Conflicts – RAC)

- a. 0003-WSP, *Design Guide for Radiant Heating and Cooling Systems*, - sponsored by TC 6.5, Radiant Heating and Cooling

It was moved (RAS) that,

(10) RAC award **0003-TRP**, *Design Guide for Radiant Heating and Cooling System*, to Technical University of Denmark, for a period of 24 months at a total cost to ASHRAE of \$77,812

MOTION 10 PASSED RAC: 12-0-0-1 (13) CNV

- b. 1566-TRP-R, *Equations to estimate evaporation rates from heated water pools in indoor recreational aquatic facilities*, sponsored by TC 8.10, *Mechanical and Desiccant Dehumidification Equipment, Heat Pipes and Components*

RAS recommended not awarding this project at this time, but would consider in the future. Huber would reach out to TC to discuss and determine a course of action on 1566 (**Action Item # 3**).

- c. 1909-TRP, *In-Tube Condensing Flue Gas Heat Transfer and Pressure Drop with Enhancements for Residential Furnaces*, TC 1.03, Heat Transfer and Fluid Flow

It was moved (RAS) that,

(11) RAC award **1909-TRP**, *In-Tube Condensing Flue Gas Heat Transfer and Pressure Drop with Enhancements for Residential Furnaces*, be awarded to Creative Thermal Solutions, for a period of 30 months at a total cost to ASHRAE of \$235,000.

MOTION 11 PASSED RAC: 11-0-0-1 (12) CNV

- d. 1910-TRP, *Evaluation of Standard 103 Transient Components and Thermostat Cycle Times on the Resulting AFUE*, TC 6.03, Residential and Light Commercial Forced Air Heating and Cooling Systems.

No bids were received. The TC was notified before the Winter Meeting. This is second time this TRP received no bids, so RAC is awaiting response from TC on if TC wishes to rewrite a new work statement or let this fall off research list.

- e. 1913-TRP, *Study of the Corrosion Impact on Information Technology Equipment in Data Centers Located in Coastal Regions with High Sea Salt Concentration*, TC 9.9, Mission Critical Facilities, Data Centers, Technology Spaces and Electronic Equipment

Bids were received but the TC has not submitted a recommendation. RAC can consider at a later meeting as appropriate.

- f. 1915-TRP, *Refrigerated Facilities Doorway Infiltration Air Energy Reduction*, TC 10.02, Refrigeration Applications

A bid was received but the TC has not submitted a recommendation. RAC can consider at a later meeting as appropriate.

- g. 1947-TRP, *Climate change driven extreme temperature effects for efficiency and resilience map of heat pump technology*, TC 2.05, Global Climate Change

It was moved (RAS) that,

(12) RAC award **1947-TRP**, *Climate change driven extreme temperature effects for efficiency and resilience map of heat pump technology*, to the University of Alabama, for a period of 36 for a total cost to ASHRAE of \$138,732.

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

- h. 1964-TRP, *Optimizing Heating System Performance in Warmup and Setback Modes*, TC 1.04, Control Theory and Application

It was moved (RAS) that,

(13) RAC award **1964-TRP**, *Optimizing Heating System Performance in Warmup and Setback Modes*, to Louisiana State University, for a period of 24 for a total cost to ASHRAE of \$195,301.

MOTION 13 PASSED RAC: 11-0-0-1 CNV

- i. TRPs to Potentially Bid Spring 2025 - RAS Chair BOGART Lead

A list of projects that can potentially bid in the spring are part of MORTS report and posted to Basecamp.

R. UNFINISHED BUSINESS OR OUT OF SEQUENCE BUSINESS

- a) BOD Ex-O report

Susanna Hanson, BOD Ex-Officio asked to give PEAC presentation (**Attachment C**). Highlights of interest to RAC:

- New ASHRAE tagline adds global focus: Shaping Tomorrow's Global Built Environment Today
- New ASHRAE 2025-2028 Strategic Plan to be announced at 2025 Annual Conference - www.ashrae.org/strategicplan
- Share your expertise with Government Officials through SMEs for GOEs program (email govaffairs@ashrae.org) if interested
- \$1.9M raised for Research (ending June 30, 2024)
- CEBD developing 8 guides (6 done, 2 in process)

- b) RAP discussion

It was moved and seconded that,

(14) RAC recommends that Tech Council appoint the following members to the Research Advisory Panel (RAP):

- RAC Vice Chair
 - Jin Wen, Drexel University
- Past RAP Members
 - Chun-cheng Piao, Daikin
 - Jim Braun, Purdue
- International Members
 - Stefan Elbel, TU Berlin
- New Members
 - Roland Charneux, Pageau Morel
 - Jon Douglas, Johnson Controls
 - Lisa Ng, NIST
 - Marianne Touchie, Univ of Toronto
 - Hyojin Kim, New Jersey Institute of Technology
 - Chris Gray, EcoSmart Solution
- Alternative Past RAP Members:
 - Christopher Wilkins, RFS Engineering
 - Eckhard Groll, Purdue
 - Mike Pouchak, Honeywell
- Alternative New Members:
 - Vikrant C. Aute, Univ of Maryland
 - Riley Barta, Purdue
 - Srinivas Katipamula, PNNL
- Alternative International Members:
 - Hywel Davies, CIBSE

BACKGROUND: RAC identified members to participate on the Research Advisory Panel (RAP) to develop the ASHRAE Research Strategic Plan. RAC considered the categories listed above and tried to achieve balance on industry, academics and governments, areas of expertise, research experience, etc. RAC will reach out to candidates and alternates as appropriate to confirm their participation. A chair can be identified when committee members are confirmed.

MOTION 14 PASSED RAC: 10-0-0-1 CNV

RAC to reach out to proposed members to confirm their participation (**Action Item #4**).

- c) Service to ASHRAE Research Award
Charneux posted proposed language with changes show (**Attachment D**).

It was moved and seconded that,

(15) RAC revise the Reference Manual as shown.

BACKGROUND: Changes are shown in the attachment. The aim is to increase recognition for ASHRAE volunteers in ASHRAE research activities.

MOTION 15 PASSED RAC: 10-0-0-1 CNV

T. RESEARCH LIAISON SECTION REPORTS Vice Chair WEN Lead

- a) RL Reminders for ORLANDO (Each RL send written update to staff after meeting)

RL's were asked to update research liaison TC reminder list based on happenings from Winter Meeting for staff to update. Staff noted there may be projects missing from the list that need to be added, so please make aware if anything is missing.

Katipamula asked for TC 1.4 to be involved in next round of testing for online research management tool.

U. NEW BUSINESS

No new business was raised at this time .

V. REVIEW NEW ACTION ITEMS

Action items from this meeting are summarized here:

ACTION ITEMS – 2025 Winter Meeting

No.	Responsibility	Action Item	Status
1	Charneux	Markup changes to the Service to ASHRAE Research Award in the RAC Reference Manual for RAC to formally consider at the Wednesday meeting	Complete
2	Wen	Categorize the list of RAP members and propose a list of nominees and alternates for the Wednesday RAC meeting	Complete
3	Huber	Reach out to TC to discuss and determine a course of action on 1566	
4	RAC/Staff	Reach out to proposed RAP members to confirm their participation	

ADJOURNED

The meeting of the Research Administration Committee was adjourned at approximately 10:00 AM Wednesday, February 12, 2025.

**Research Administration Committee MBOs 2024-2025
Natascha Milesi-Ferretti, RAC Chair**

MBO #	Description	Metric	Initiative #	Goal #	Completion % /Date	Financial Assist Req'd?	MBO Comments
		(how do we determine success?)					
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	75% as of 2/11/2025	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 ASHRAE RAC staff and eliminate confusion from multiple file versions in circulation. Have solicited limited TC and RAC members for beta testing and debugging. Staff getting demo from vendor Oct 4 on RTAR, WS, TRP stages. Will recruit RAC members and then TCs to run testing. UPDATE: Beta testing performed by a TC before ORL. Another TC will be asked to help with further testing after meeting. Aim is for tool to be ready for use by Annual Meeting.
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. First ever TRP for publication to go out for bid UPDATE: RAC considering bids for PTAR-0003, the first project developed under new PTAR procedures.
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 is 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. <u>8/1/2024- Added PMS Training video.</u> UPDATE: No updates to reference documents since last meeting. Reference Manual changes related to Service to ASHRAE Research award may be considered on Wednesday in ORL.
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 number 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: RAC duplicated efforts used last time for October bids and again received excellent response. Efforts were quite successful.

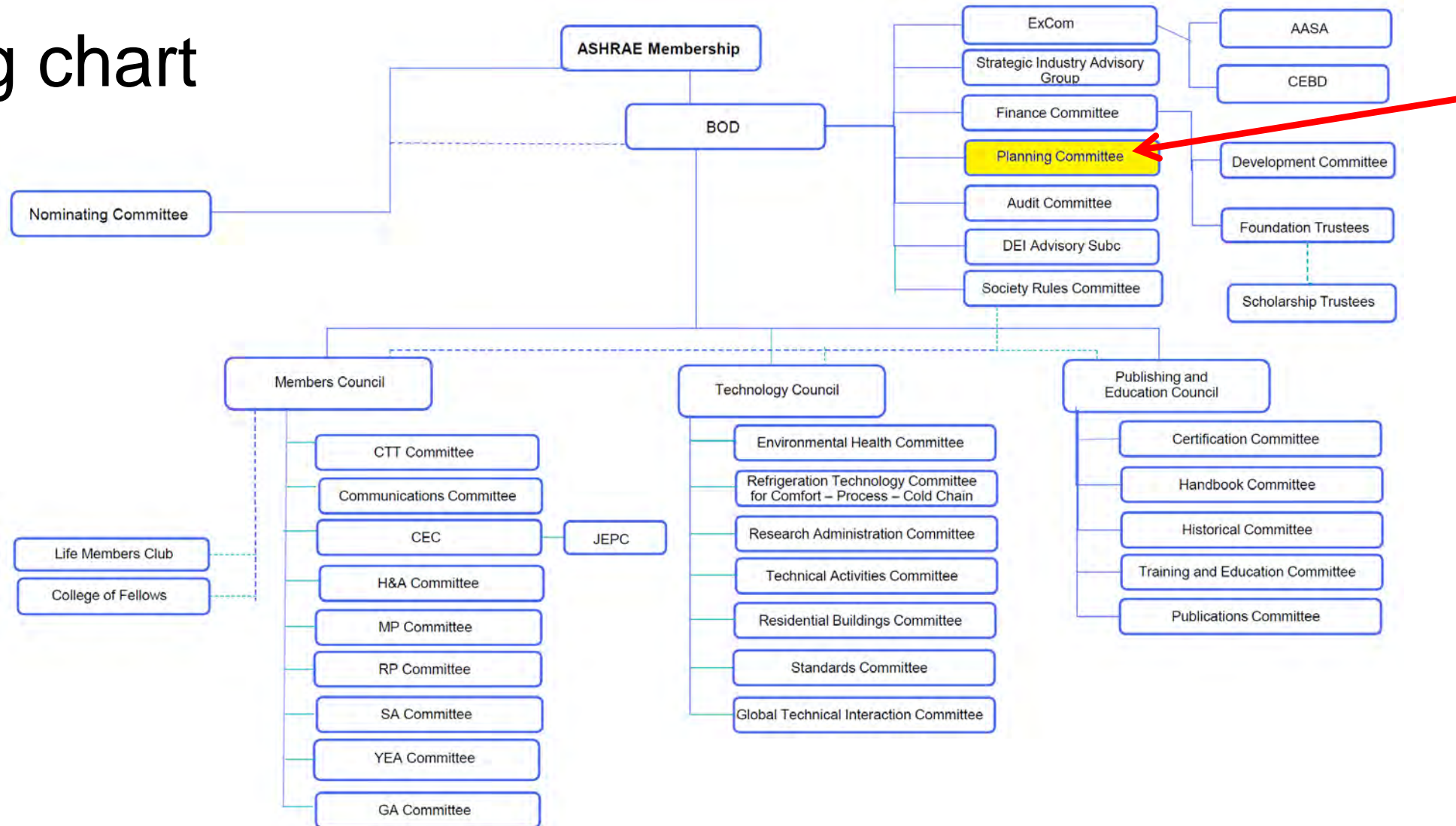
5	Expand TC involvement in identifying, communicating with, and obtaining project co-funding support at the work statement review stage	Identify suitable levels of involvement for TCs to solicit and secure potential co-funding sources for ASHRAE research projects prior to TRPs being put out for bid. Revisions included in Research Manual.	3	1b, 2b, 3a, 3b	95% as of 2/11/2025	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 letters should be obtained and documented. Changes need final reviews before incorporation. UPDATE: TCs have done great job of identifying potential co-sponsorship. Staff working to update formal guidance and timeline for project co-sponsorship.
6	Provide updated guidelines for research project work statement budget estimating.	Updated budget estimating guidelines placed on the ASHRAE research website.	3	3b	Complete 2/11/2025	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 slides for reasonable budget estimates to be prepared for 1/1/2025. UPDATE: Slides of costing resources were presented at Research Subcommittee Training Breakfast
7	Identify 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. RAC to explore how data from research projects can be submitted in a universal or accessible format and document in Research Manual UPDATE: RAC discussed questions surround data issue and formed a subcommittee to review current requirements, language from other organizations that address these issues, and draft language that would help keep data from ASHRAE research projects available and useable.
8	Establish new requirements for lay description of research projects and, best research findings from Research chairs.				new	no	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. UPDATE: RAC met with RP to discuss the best format for descriptions.



Planning Committee (PLC)

Who is the Planning Committee?

- Org chart



What does the Planning Committee do?

• Role

- The role of the Planning Committee (PLC) is to assist the Board of Directors (BOD) and the **organization** in the development of strategic thinking for the future.
- The PLC uses an approved method of **soliciting continuous strategic planning from the councils and committees** for use in advising the Board of Directors on ideas which may be considered for changes to the strategic goals and directions of the Society.
- On a regular basis the PLC:
 - Reports on Findings & Recommendations
 - Provides Gap Analysis on Strategic directions & goals of committees

What does the Planning Committee do?

• Subcommittees

Innovation and Implementation Subcommittee:

- Oversee Strategic Plan implementation
- **Teams with ASHRAE Councils and Committees** to ensure each develops appropriate timelines for implementation, metrics to measure success, and a method to measure progress related to the strategic plan
- Develops methodology to **identify gaps** and overlaps in implementing the Strategic Plan
- **Solicits creative ideas from the membership**, makes strategic assessments, identifies strategies, develops and recommends new initiatives to the PLC to adopt as strategic goals
- Makes recommendations for next year, three (3) year, five (5) year, ten (10) year, and twenty (20) year goals.

What does the Planning Committee do?

Validation and Documentation Subcommittee (is responsible for):

- Receiving, reviewing, and quantifying each Council and Committee's MBOs.
- Receiving the Continuous Strategic Planning (CSP) input from the committees and councils and presenting them to the full PLC for consideration by the Board of Directors at the Fall BOD meeting.
- Updating the survey, reviewing the responses, and compiling summary information and potential actionable items from the annual Membership Survey.
- Utilizing the metrics and Key Performance Indicators (KPIs) to evaluate the success and progress of the Strategic Plan and presenting them for the full PLC Annual Meeting.

What does the Planning Committee do?

• Strategic Plan

The Planning Committee (PLC) is responsible for ASHRAE's long-range and strategic planning activities on a continuing basis. The PLC role is to assist the Board of Directors (BOD) and the organization to think strategically in planning for the future.



Healthy, Sustainable and Resilient Communities

Providing a healthy, productive and resilient indoor environment, while minimizing greenhouse gas emissions, is critical to today's built environment. Further, global stakeholders' leveraging of ASHRAE's standards and technical resources presents an opportunity for ASHRAE to solidify global leadership in supporting healthy, sustainable and resilient communities. ASHRAE prioritizes timely identification of industry trends, expedient content development, and forges key partnerships to advocate and collaborate with industry.



Empowered Workforce

The development of a skilled, competent, and solutions-oriented workforce is critical to addressing the challenges facing the built environment and the HVAC&R industry, today and in the future. ASHRAE continues to provide educational and professional development resources. Our members and industry partners need these tools to implement key initiatives such as decarbonization, resiliency, and indoor environmental quality goals and policies. ASHRAE, with the support of our chapters and regions, partners with key industry stakeholders in tackling the unique workforce challenges facing the industry globally.



Organizational Agility

ASHRAE's ability to serve communities, the industry, the current and future workforce, and provide value to its volunteer members, is dependent on forward-looking products, services, and solutions. ASHRAE will use emerging technologies to support the development of resources and knowledge flow between ASHRAE's chapters, regions, technical bodies, and the industry, harnessing organizational and operational efficiencies.



Emerging Technologies

In today's rapidly evolving landscape, emerging technologies are revolutionizing the built environment and HVAC&R industry, expanding numerous career opportunities. By combining technological advancements such as AI with human creativity, both seasoned professionals and new talent can collaborate to drive industry-wide progress. Advanced automation and AI-enabled systems propel energy efficiency and smart buildings, enhance comfort and IEQ, improve operations and maintenance, and deliver holistic and sustainable solutions for industry professionals. ASHRAE engages in a thoughtful process to evaluate and prioritize opportunities to leverage new technologies.

How does the Planning Committee affect you?

- The Planning Committee (PLC) helps ASHRAE Committee and TC's design their goals and MBO's to align with the ASHRAE Strategic Plan.

How can the Planning Committee help you?

- Members of the Planning Committee (PLC) are available to help discuss anything related to ASHRAE's Strategic Plan, or even regarding your MBO's (and how they align with the Strategic Plan)
- Members of PLC are available to carry your suggestions / inputs back to PLC.



Contact Information

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Samir.traboulsi@mail.ashrae.org

- Chandrias Jolly, CJolly@ashrae.org



Shaping Tomorrow's Built
Environment Today

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2025 ASHRAE WINTER CONFERENCE

ORLANDO, FEB 8-12 | AHR EXPO, FEB 10-12

LEADERSHIP PRESENTATION

Code of Ethics

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 we shall avoid all real or perceived conflicts of interest.

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.

Harassment and Discrimination

ASHRAE strictly prohibits and does not tolerate discrimination against members or applicants for membership because of such individual's race, color, religion, age, sex, sexual orientation, national origin, physical or mental disability, pregnancy, genetic information, veteran status, uniformed service member status, or any other category protected under applicable law.

Commercialism

ASHRAE's Commercialism Policy allows for Society activities that fulfill the mission of technological advancement with adherence to business plans that generate income to offset operational expenses such as AHR Exposition, ASHRAE periodicals, website, and Society conference events such as the Welcome Party, luncheons, registration kits, and receptions.

MARKETING CENTRAL

ASHRAE has a **NEW TAGLINE!** Shaping Tomorrow's **Global** Built Environment Today.



Shaping Tomorrow's Global
Built Environment Today

Download Now at [Marketing Central](#)

Download

2025-28 Strategic Plan Available for Committees and Councils



A preview of the new Strategic Plan is available for committees, councils and chapters to reference while planning for the upcoming Society year.



The complete 2025-28 Strategic Plan will be announced at the 2025 ASHRAE Annual Conference.

Download the Strategic Plan at
ashrae.org/strategicplan

Download

ASHRAE Board of Directors



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Santee, California

GOVERNMENT OUTREACH



Get Involved!

136 Government Outreach
Events during the 23-24 SY

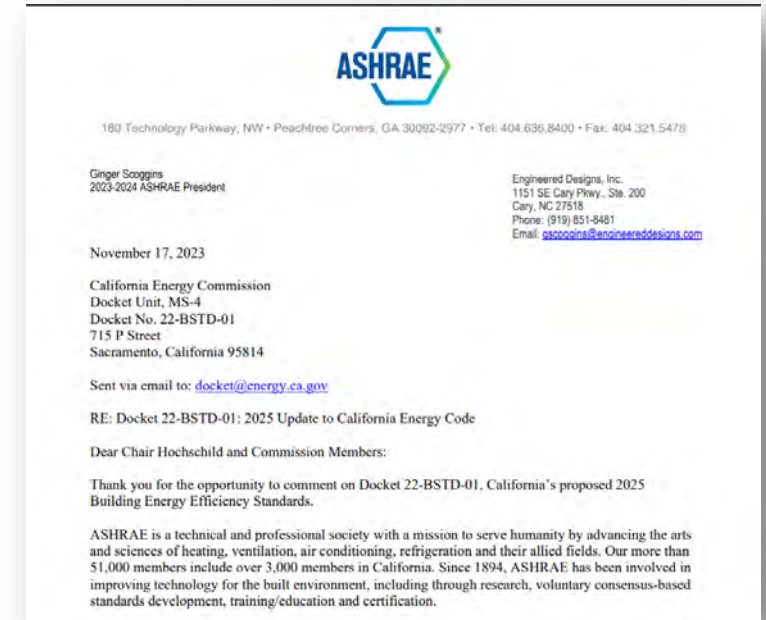
GOVERNMENT AFFAIRS UPDATE



BI-WEEKLY NEWSLETTER

Sign up for the Government
Affairs Update
online or email
GovAffairs@ashrae.org

LETTERS & TESTIMONY



Share your Expertise with Government Officials through the new SMEs for GOEs Program



Policymakers and elected officials need your expertise to make better decisions as they craft legislation and regulations impacting HVAC&R and the built environment.

The Government Affairs Committee (GAC) has developed a new program to identify Subject Matter Experts (SMEs) who can effectively communicate with non-technical audiences such as government officials

BE THE SOURCE of technical expertise for these decisions!



Sign up online or email GovAffairs@ashrae.org

Society Year ending June 30, 2024



\$2.7M Research Promotion Campaign
(Research, YEA, ALI, Scholarships, General)



\$1.5M Raised for Endowments



\$232,100 Awarded through
52 Scholarships



\$1.9M Raised for Research



\$57,600 Raised by College
of Fellows and Life Members Club



\$1.18M Given by ASHRAE
Regions, Chapters and Sections

More than 4,000 contributions from Members, Organizations and other Associations

Center for Excellence in Building Decarbonization (CEBD)



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- Developed Project Summaries for eight (8) CEBD projects
- New eLearning Course on Grid Interactive Buildings
- Publication of Guides:
 - ✓ Grid Interactive Buildings for Decarbonization Design
 - ✓ Decarbonizing Hospital Buildings
 - ✓ TM65 Addendum for North America with CIBSE
 - ✓ Building Decarbonization Retrofits for Commercial & Multifamily Buildings
 - ✓ Decarbonizing Building Thermal Systems: A Guide for Applying Heat Pumps & Beyond with NREL
 - ✓ *Whole Life Carbon Guide for Building Systems: In Process*
 - ✓ *Guide to Strategic Decarbonization Planning with USGBC: In Process*



Building Energy Modeling

Updated Early! Refrigeration Safety Standards

STANDARD

ANSI/ASHRAE/IBPSA Standard 209-2024
(Supersedes ANSI/ASHRAE Standard 209-2018)
Includes ANSI/ASHRAE/IBPSA addenda listed in Appendix K

Building Performance Simulation Process



See Informational Appendix C for dates of approval by ASHRAE, the International Building Performance Simulation Association, and the American National Standards Institute.

This Standard is under continuous maintenance by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely, documented, consensus action on requests for change to any part of the Standard. Instructions for how to submit a change can be found on the ASHRAE website (www.ashrae.org/continuous-maintenance).

The latest edition of an ASHRAE Standard may be purchased from the ASHRAE website (www.ashrae.org) or from ASHRAE Customer Service, 180 Technology Parkway, Peachtree Corners, GA 30092. E-mail: orders@ashrae.org; Fax: 678-539-2179; Telephone: 678-539-9400 (worldwide), or toll free 1-800-527-4773 (for orders in US and Canada). For reprint permission, go to www.ashrae.org/permissions.

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STANDARD

ANSI/ASHRAE Standard 15.2-2024
(Supersedes ANSI/ASHRAE Standard 15.2-2022)
Includes ANSI/ASHRAE addenda listed in Appendix D

Safety Standard for Refrigeration Systems in Residential Applications


See Appendix D for dates of approval by ASHRAE and the American National Standards Institute.

This Standard is under continuous maintenance by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely, documented, consensus action on requests for change to any part of the Standard. Instructions for how to submit a change can be found on the ASHRAE website (www.ashrae.org/continuous-maintenance).

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STANDARD

ANSI/ASHRAE Standard 34-2016
(Supersedes ANSI/ASHRAE Standard 34-2013)
Includes ANSI/ASHRAE addenda listed in Appendix H


Designation and Safety Classification of Refrigerants

See Appendix H for approval dates by the ASHRAE Standards Committee, the ASHRAE Board of Directors, and the American National Standards Institute.

This Standard is under continuous maintenance by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely, documented, consensus action on requests for change to any part of the Standard. Instructions for how to submit a change can be found on the ASHRAE website (www.ashrae.org/continuous-maintenance).

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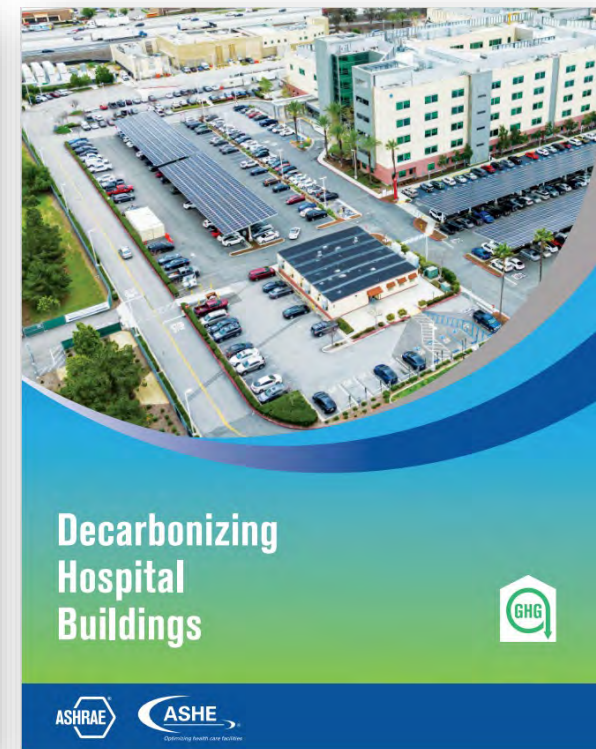
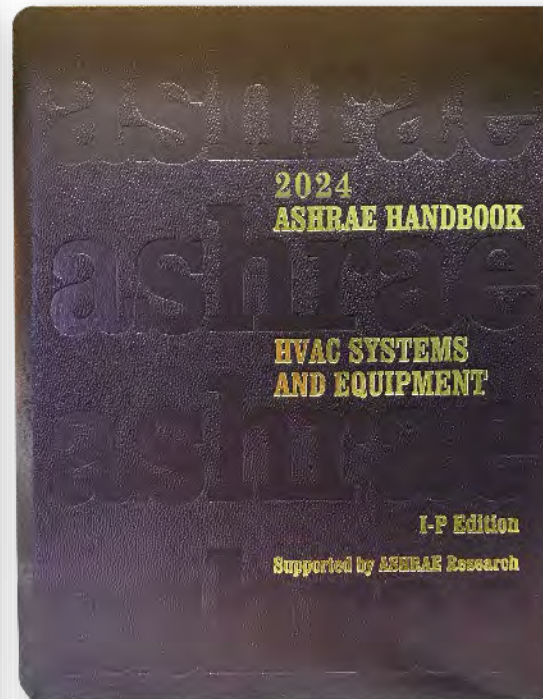
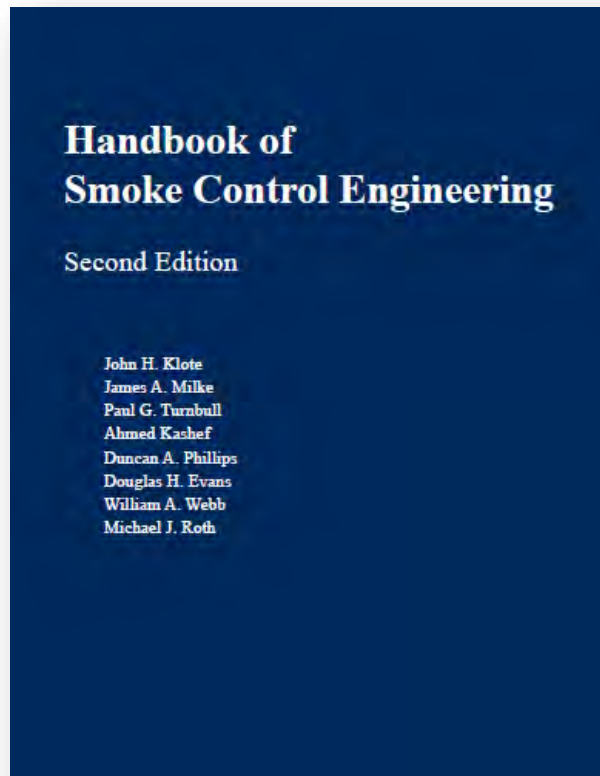
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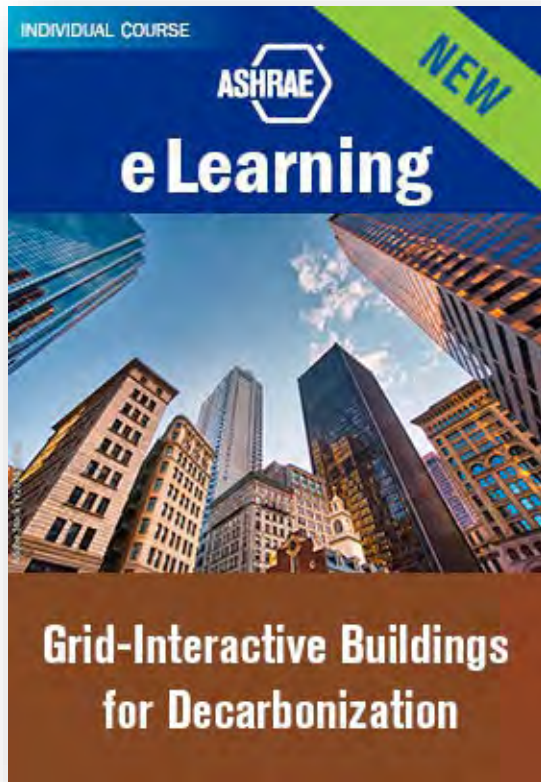


Get the Latest and Greatest Publications



eLearning

New Course



ASHRAE Learning Institute

New Training in Orlando

Ultra-Low-Energy Buildings
and Microgrids:

Tools for Resilience and
Decarbonization

February 10 | 2:45 PM



Solar Energy Systems Design, Applications,
and Real-World Best Strategies

February 11 | 9 AM

Certification

New Certification



Record Application Total in SY 2024

2025 Conferences



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Qatar, Doha, April 23-24, 2025

Third International Conference on Energy and Indoor Environment for Hot Climates



Denver, August 13-15, 2025

2025 ASHRAE Conference for Integrated Design, Construction & Operations



Montreal, September 24-26, 2025

IEQ 2025 Conference
Co-Organized by ASHRAE and AIVC



Chicago, October 22-24, 2025

2025 ASHRAE Building Decarbonization Conference



Clearwater Beach, FL, December 8-11, 2025

Buildings XVI Conference



**2025 ASHRAE
Annual Conference**

Phoenix, AZ, June 21-25, 2025

Registration opens in Spring 2025. See you in Phoenix!

Meet and Greet with Dennis Knight at the ASHRAE Booth (3201) Monday at 3:00 PM



**M. Dennis Knight, P.E., BEMP, Fellow ASHRAE
2024-25 ASHRAE President**

**Stop by the ASHRAE Booth 3201 and
Bookstore 455 while at the AHR Expo.**

Your paid conference badge provides entry to the show.

Grab your ASHRAE Member device charging
lanyard while visiting the ASHRAE booth!

New ASHRAE Region XV



Director and Regional Chair: **Bassel Anbari**



Director and Regional Chair: **Richie Mittal**

Committees and Student Scholarships



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Find Committees and Nominate Yourself or Others

FEB
2025

February 14: Nominations for appointed committees are due.

JUN
2025

June: Speak with your committee ExO/CO if your current appointment/elected position ends to be nominated for another.

SEP
2025

September: Nominations for elected positions are due. (Publications & Education Council, Tech Council, RAC, TAC, Standards, Handbook, Nominating)

Communities > Student Zone > Scholarships

44 Society Scholarships Available for 2025-2026 SY

Each year the ASHRAE Foundation awards scholarships of up to **\$12,500** USD each to qualified students.



Spread the word to students and encourage them to apply.



Consider donating to help support the scholarship program.

Membership

Have you selected your Annual Membership Benefit?

Benefits are selected during the join & renewal process. If you haven't done so, login and select from benefit options available.

eLearning Course 150+ to choose from	ASHRAE Standard or Guideline 100+ to choose from	ASHRAE Handbook PDF version of the most recent	Handbook Online 4 most recent	ASHRAE Certification Exam Study Guide 3 to choose from
--------------------------------------------------------------	--------------------------------------------------------------------------	--------------------------------------------------------------	-------------------------------------------------------	--------------------------------------------------------------------------------

New, Full Dues Paying Members Automatically Get:

1 Free Registration to Winter or Annual Conference	12 Months FREE Handbook Online
------------------------------------------------------------------	----------------------------------------------

HONORS & AWARDS

The following award nominations have a May 1 deadline:

Fellow | Honorary Member | ASHRAE Hall of Fame | F. Paul Anderson Award

ASHRAE Pioneers of the Industry | Award for Distinguished Public Service



Media Inquiries



**Asked to make a statement
on behalf of ASHRAE?**

Please send all media
inquiries to
publicrelations@ashrae.org
before responding to
members of the press.

Thank you!
Questions or Comments?

ashrae.org

APPENDIX I

PROCEDURE FOR SERVICE TO ASHRAE RESEARCH AWARD

1. PURPOSE.

The purpose of the "Service to ASHRAE Research Award" is to recognize ~~individuals an individual~~ for ~~their his/her~~ excellence in volunteer service to the area of Society research. The awards will serve to heighten general membership awareness of, and interest in, research activities at the TC/TG level.

2. AWARD.

The "Service to ASHRAE Research Awards" shall be presented annually provided ~~a~~ suitable candidates ~~are~~ identified. The award will consist of an acrylic trophy with the recipient's name and the year of the award etched into the face of the trophy. The fiscal impact for the trophy is ~~small negligible (< \$150 per trophy)~~ and the cost for it will be covered under the Research Administration Committee annual budget. It would require truly unusual service for the award to go to a past recipient.

3. ELIGIBILITY REQUIREMENTS.

The award is open to ASHRAE members who have demonstrated exceptional service in the area of ASHRAE research which includes planning, authoring of work statements, proposal evaluation, project monitoring and/or administration. Research Administration Committee and Technology Council members or TC/TG chairs are not eligible for receipt of the Award during the terms they serve on the respective committees. Researchers are not eligible for service performed in connection with a project for which they are under contract.

4. NOMINATION.

TC/TG chairs may nominate either a voting or corresponding member of the TC using the form attached to this procedure. Multiple TC/TG chairs may co-nominate an individual whose exceptional research service spans their TC/TGs. However, each TC may only nominate one individual per year. A typical award nomination should contain a summary outlining the nominee's exceptional research service across the beneficiary TC/TGs over the previous ~~five~~ years. The nominating (or co-nominating) TC/TG chair(s) submits the form to their Section's Research Liaison (RL) by September 1st. TC/TG chairs may nominate a candidate again in subsequent years if the candidate has not yet received the award.

5. JUDGING.

Each RL of RAC will review all nominations or co-nominations received from their Section and recommend ~~a single~~ eligible nominees from that Section to the RAC Research Planning Subcommittee (RPS) for ~~their~~ consideration at the Technology Weekend Meeting in October. ~~To be considered by RPS, candidates co-nominated by TC/TGs in multiple Sections must be the top choice of at least one of the Section RLs.~~ The Research Administration Committee prior to the ASHRAE Winter Meeting will nominate ~~a~~ candidates to the Honors and Awards Committee. The recommended candidates will be chosen from all nominations that meet a ~~20 +0-points~~ minimum requirement as outlined under the below Item 7 Criteria for Selecting Recipients by RPS and approved by RAC. (Points shall be earned in at least two of the 6 categories). List all WS, RP numbers referred for the points that are claimed. The Honors and Awards Committee shall consider award

Commented [CG1]: We discussed that TCs could only nominate one candidate. Is this relevant if TC's are only nominating one person?

points and the explanation provided by the nominating or co-nominating TC/TGs to RAC in its deliberations. [There is no limit on the number of awards that can be made annually so long as candidates meet all award criteria.](#)

6. PRESENTATION.

The RAC chair presents the “Service to ASHRAE Research Award” at the Research Subcommittee Chair’s Breakfast Meeting during the ASHRAE Annual Meeting.

[TOC](#)

7. CRITERIA FOR RECIPIENTS.

A. Work Statement (WS) Author	_____	1 point per WS
B. Project Evaluation Subcommittee Service		
1. Member		1 point per RP
2. Chair		_____ 2+
		points p Per RP
C. Project Monitoring Subcommittee Service		
1. Member		2 points per RP
2. Chair		3 2 points per RP
D. Research Subcommittee Chair Service		1 point per year
E. Research Advisory Panel Service		
1. Member		1 point per tour
2. Chair		2 points per tour
F. Research Administration Committee Service		
1. Member		1 point per tour
2. Subcommittee Chair		2 points per tour
3. Chair		3 points per tour
		_____ (Max. 6 pts./tour)

[tour](#)

Note: A tour is [defined as a full cycle for the role: e.g. a 4-year appointed term for members of RAC or one year of service for RAP Chair or RAC Chair.](#)

[TOC](#)

**SERVICE TO ASHRAE RESEARCH AWARD
NOMINATION FORM**

In recognition of exceptional service to the ASHRAE Research Program.

Nominating TC/TG or Co-Nominating TC/TGs _____

Nominee's Name _____

Nominee's Current Committee Position _____

TC/TG Chair Name Signature (All Chairs if Co-Nominating) _____

Eligibility Points:

- | | | |
|----|-------------------------------------------|---------------|
| A. | Work Statement (WS) Author | Points: _____ |
| B. | Project Evaluation Subcommittee Service | |
| | 1. Member | Points: _____ |
| | 2. Chair | Points: _____ |
| C. | Project Monitoring Subcommittee Service | |
| | 1. Member | Points: _____ |
| | 2. Chair | Points: _____ |
| D. | Research Subcommittee Chair Service | Points: _____ |
| E. | Research Advisory Panel Service | |
| | 1. Member | Points: _____ |
| | 2. Chair | Points: _____ |
| F. | Research Administration Committee Service | |
| | 1. Member | Points: _____ |
| | 2. Subcommittee Chair | Points: _____ |
| | 3. Chair | Points: _____ |
| | | ----- |
| | Total: | |

Describe the nominee's outstanding service, accomplishments, and/or contributions ~~during the~~ to the past five Society ~~research activitie~~ years. Be specific. (Max. 250 words.)

Describe how the nominee's outstanding service, accomplishments, and/or contributions ~~during the past five Society years~~ benefited ASHRAE. (Max. 250 words.)

Summarize the nominee's lifetime service, accomplishments, and/or contributions to ASHRAE research at the TC/TG/MTG level. (Max. 100 words).