

TC 8.5: Liquid to Refrigerant Heat Exchangers
Minutes ASHRAE 2026 Winter Meeting

1791 Tullie Circle, N.E./Atlanta, GA 30329
404-636-8400

TC/TG/MTG/TRG MINUTES COVER SHEET

(Minutes of all Meetings are to be distributed to all persons listed below within 60 days following the meeting.)

TC/TG/MTG/TRG No. TC8.5 DATE 02/02/2026

TC/TG/MTG/TRG TITLE Liquid to Refrigerant Heat Exchangers

DATE OF MEETING 02/02/2026 LOCATION Las Vegas, NV

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE	
Nicholas Zupp ('26)	7/1/2024	Gurunarayana Ravi ('26)	7/1/2022	<u>Cor. Members</u>	<u>Pro Cor. Members</u>
Pratik S Deokar ('26)	7/1/2025			Stanislav Perencevic	Scott Wujek
Benjamin Dingel ('26)	7/1/2022			Icksoo Kyung	Evraam Gorgy
Achim Gotterbarm ('29)	7/1/2025			Jim Bogart	Nilesh Purohit
Justin Kauffman ('28)	7/1/2024			Laura Collazo Carballude	Naimish Pandya
Michael Wilson ('29)	7/1/2025			Loreno Cremaschi	
Joe Huber ('27)	7/1/2023			Adnan Ayub	
Druv Hoysall ('27)	7/1/2023			Pedro Perez	
Kashif Nawaz ('27)	7/1/2023			Arindom Joardar	<u>Guests</u>
Vikrant Aute ('29)	7/1/2025			Satheesh Kulankara	Nick Martin
				Edith Luveina Joseph (YEA)	Philipp Hoffman
				Kenneth Schultz	Kalyan Boyina (YEA)
					Antoine Bou Abboud
					Muhammed Mohsin Tanveer (YEA)
DISTRIBUTION: All Members of TC/TG/MTG/TRG plus the following:					

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TAC Section Head: Kashif Nawaz	SH8@ashrae.net
Research Liaison: Carl Huber Standard Liaison: Srinivas Katipamula Staff Liaison: Steven J Hammerling Handbook Liaison: Derek Crowe	srinivas.katipamula@pnnl.gov shammerling@ashrae.org derek.crowe@stantec.com
Steve Hammerling, Manager Of Research & Technical Services	MORTS@ashrae.net

YEA: Young Engineers in ASHRAE, Int'l: International Members, from outside USA and Canada

Note: These draft minutes have not been approved and are not the official, approved record until approved by the TC.

1. **Monday, February 2, 2026, 2:30 PM. Call to order and reading of TC 8.5 scope** (N. Zupp):
 - *TC 8.5 is concerned with the thermal and mechanical design, performance, and application of devices for accomplishing heat transfer between refrigerants (including secondary refrigerants) and liquids.*
2. **Introduction of members and guests** (in-persona and virtual)
3. **ASHRAE Code of Ethics Commitment** (N. Zupp)
 - *"Commitment to the ASHRAE Code of Ethics – In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, integrity and respect for others, and we shall avoid all real or perceived conflicts of interests.*
(See full Code of Ethics: <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>)
 - Shared ASHRAE's Commitment of Health and Safety of the members and conference attendees.
4. **Establish quorum requirements** (N. Zupp)
 - 7 out of 11 voting members present, quorum established. Vikrant came in later for a total of 8.

Nicholas Zupp (chair) '26	Vikrant Aute '29	Michael Wilson '29	
Pratik Deokar (Vice Chair) '26	Achim Gotterbarm '29		
Joe Huber '27	Druv Hoysall '27		
Benjamin Dingel '26	Justin Kauffman '28		

- Shared e-mail aliases of subcommittee chairs in attached presentation.
5. **Review/approve minutes from previous meeting** (N. Zupp)
 - Motion to approve Justin Kaufmann, seconded by Mike Wilson.
 - Meeting minutes approved:
 - For Approval: 7
 - Against approval: 0
 - Abstain: 0
 - Not Present: 4.
 6. **Biyearly Vote on Continuing, Merging with another TC or Disbanding** (N. Zupp)
 - Discussion from Mike Wilson about whether this committee has the scope of refrigerant-to-refrigerant.
 - Perhaps cascade could be discussed. Does it fall into the scope of any other TCs?
 - Decided to keep current scope.
 - Nick Zupp indicated that if someone would like to request changing the scope please send him an email and he will schedule an interim meeting.
 - Voted to continue current scope:
 - For Approval: 6
 - Against approval: 1
 - Abstain: 0

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- Not Present: 3

7. **Membership subcommittee report** (S. Kulankara)

- Roster: 101 members, 10 YEA members, 15 Pro CM, 11 Voting Members.
- Nick Zupp, Ben Dingel and Guru Ravi rolling off as voting members.
- Proposed new voting members: Omar Abdelaziz, Adnan Ayub, Jim Bogart, Pedro Perez, Laura Collazo Carballude.
- New Leadership as of June 30, 2026:
 - Chair: Pratik Deokar.
 - Vice Chair: Pedro Perez.
 - Secretary: Adnan Ayub.

8. **MTG Liaison** (S. Kulankara)

- **Meeting:** MTG met in Phoenix after the AHR meeting. Meetings are on Wednesday (after TC 8.5 meeting).
- **Programs:** No MTG sponsored within ASHRAE but one cosponsored within AHR: Maintenance Checklists to Improve Cooling Plant Performance (co-sponsored by ASHRAE and UNEP).
- **Research:** RP1806 Flammable Ref Post-Ignition Simulation and Risk assessment update.
 - Waiting on recommendations on go/no-go for this project.
 - Deciding what else could be done with the budget that is remaining. That revision is still pending.
- **Codes and Standards:** Tracking a lot of environmental standards and codes related to the use of low GWP refrigerants.
- **Continuation of MTG LowGWP:** MTG liaison recommended MTG should continue. There is not a home for all the codes and standards the MTG is working on.
 - Motion for the MTG to continue: Joe Huber moved. Mike Wilson second.
 - 0 against, 0 abstain, 3 non-present, 8 For. Motion Approved.
- **Discussion of scope:** Recommendation to delete any references of LCCP from scope and continue with the rest of the scope as is. LCCP can work within CEDB (Center for Excellence for Decarbonization) within the ASHRAE structure. This is within the scope and could potentially go there.
 - Motion for MTG to continue with a revised scope that deletes LCCP related activities at least until TRP 1806 is complete. Justin Kaufmann moved, Mike Wilson second.
 - 8 for, 0 against, 0 abstain.
- TC 8.5 Representation at MTG:
 - Primary: Satheesh Kulankara.
 - Alternate 1: Vikrant Aute.
 - Alternate 2: Mike Wilson volunteered for alternate 2.

9. **Handbook subcommittee report** (A. Joardar)

- TC is responsible for editing Chapter 39: Condensers and Chapter 42: Liquid Coolers of HVAC Systems and Equipment Handbook.
- This handbook was last published in 2024. It is a four-year cycle. Next publication is due in 2028. The revisions from the TC are due by July 31, 2027, one year before publication. We have between now and July 2026 for revision of these two chapters. Volunteers are needed.
- Joe Huber suggested Chapter 42 Liquid Cooler could be considered an old term and suggested changing the title of the chapter to more currently use terminology.
- New process is available in the author's portal. Documents are available. Access to work on a draft is available. All work can be shared, and the portal allows for collaboration.

10. **Program subcommittee report** (P. Mehdizad)

2026 Winter Program Statistics

Program	Proposals Submitted	Proposals Scheduled
Panel Sessions	19	6
Forum Sessions	9	6
Seminar Sessions	131	65
Workshop Sessions	7	4
Debate Sessions	9	4
Total	175	85
Total with Paper Sessions		121

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2026 Annual Meeting - Austin— June 27 – July 1, 2026

Fundamentals and Applications

- Track Chair: Mikeal Salonvaara | salonvaaramh@ornl.gov

HVAC&R Systems and Equipment

- Track Chair: Atilla Biyikoglu | abiyik@gazi.edu.tr

Research Summit

- Track Chair: Craig Bradshaw | crbrad@illinois.edu

Workforce Development

- Track Chair: Mike Bilderbeck | mbilderbeck@pickeringfirm.com

Ground Source Heat Pumps

- Track Chair: Ahmed Elatar | elataraf@ornl.gov

Hot Climate Building System Design, Operation and Resilience

- Track Chair: Jie Cai | cai40@purdue.edu

AI in Building Design and Construction

- Track Chair: Jeslu Jacob | jesluceline@gmail.com

Building Decarbonization

- Track Chair: Raul Simonetti | raul.simonetti@carel.com

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- Requested ideas for seminars or presentations at Austin.
 - TC 1.3 is putting together a program thermal management of battery storage systems. Single phase conversion. Should TC 8.5 sponsor?
 - Is there any interest from this committee? Proposed in 1.3 is single-phase.
 - Single phase and battery cooling. They have four speakers. Three of the speakers not sure if they have liquid involved.
 - If he could write a 100 words abstract then Pratik can share and they can do a ballot vote. Niles Purohit.
 - Vikrant would like to propose a session for Austin. Three speakers. They are international. More likely that they would travel for winter conference. Topics:
- Void fraction in plate heat exchangers.
- Ultra compact liquid to refrigerant applications.

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- Flow visualization in plate heat exchangers.
 - Heat Transfer (one speaker).
 - Void Fraction visualization (another speaker that does both HT and VF).
 - Vikrant to send the speakers to Nick and Pedro.
 - Vikrant to organize this session.
 - Vikrant mentioned that there was a lot of interest into charge optimization in water source heat pump, cold climate applications. A lot of interest to understand how liquid to refrigerant heat exchangers fail in the field. Could these be topics to talk about in the future?

11. Standards subcommittee report (J. Huber)

- TC 8.5 is responsible for ANSI/ASHRAE Standard 22-2023, 24-2019, and 181-2023
- STD 22 Methods of Testing for Rating Liquid-Cooled Refrigerant Condensers, STD 24 Methods of Testing for Rating Evaporators Used for Cooling Liquids, STD 181 Method of Testing for Rating Liquid-to-Liquid Heat Exchangers.
- Std 22 and 181 were recently revised and published after revision in 2023.
- Standard 24 was recently under revision. It was finished and approved last fall. It is now Std 24-2025. All three standards have been updated and approved.

12. Webmaster report (P. Perez)

- Website is up to date.

13. Research subcommittee report (K. Nawaz)

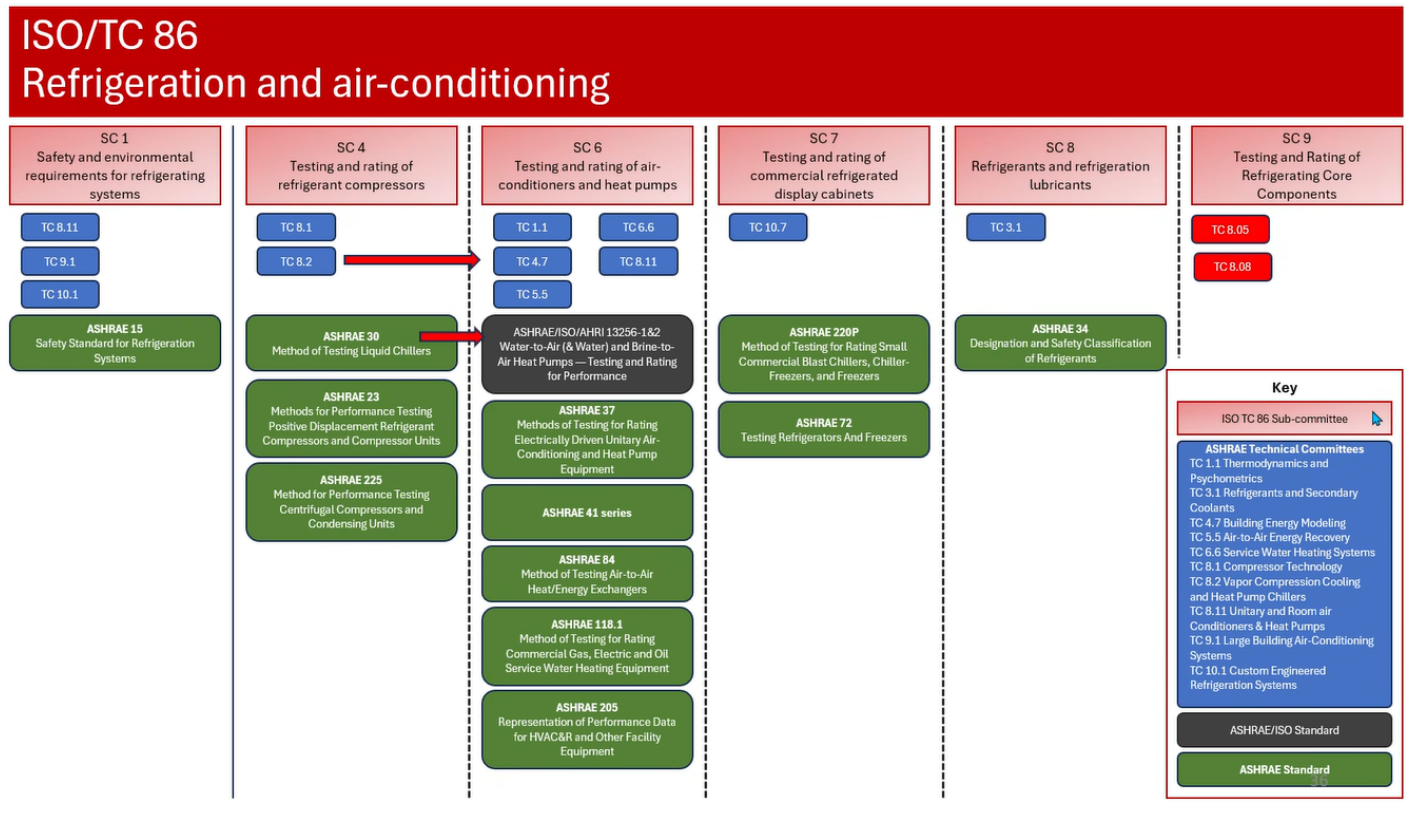
- Joe Huber filled in.
- RTAR: 2025-2028 Strategic Plan. If you are writing RTARs make sure to make references to the strategic plan so RAC can see this.
- There is a new strategic plan being developed. They are asking for TCs feedback.
- ASHRAE raised \$ 817,000. 5% ahead of last year. Goal is to raise \$ 2.7 M.
- Last year 2024-2025: \$ 2.8 M spent, \$ 1.9 M brought in for research, \$ 900 K brought in for other ASHRAE programs like learning institute and YEA and other programs.
- Cycle year 2025-2026: There is \$4M available for research due to low volume of projects.
- RAC would like to see additional RTARs and work statements.
- Training for project reviewers.
- Brand new research manual 2026 version. If you are involved in writing RTARs, work statements, project monitors. This is online now.
- RAC can approve up to \$ 350K for projects now. Up to @ 500 K RAC and TAC, above add board.
- New online portal for submitting RTARs and WS. Encouragement is to use going forward. It does not have collaboration for multiple authors (keep in mind).
- Main feedback from the Research Chairs meeting is to have collaboration feature.
- RTAR 1983 with modifications based on RAC feedback was voted on by email ballot finalized 10/21/2025. The RTAR is titled "Condensation Heat Transfer of Novel Low GWP Refrigerants on Enhanced Tube Bundles Including Effects of Non Condensables"
 - The RTAR was approved as follows: 10 for, 0 against, 1 not received.
 - Jim Bogart to work with Ben Dingel in work statement.

14. Chair report (N. Zupp)

Chair's Presentation to be uploaded to Basecamp.

ASHRAE has been getting involved in global standards. The rest of the world is catching up and ASHRAE would like to be involved. Discussions about how to get involved are taking place. ASHRAE involved various ISO/TCs.

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Stainley Lee is the ASHRAE contact in case you want to get involved.

More information is available in the attachments.

15. New Business

None

16. Next meeting

Austin June 27- July 1.

17. Adjourn

Attached: Meeting Slides, Attendance Sheet, TAC Slides, RAC Slides.



ASHRAE Technical Committee

8.5

Liquid to Refrigerant Heat Exchangers

Winter 2026

ASHRAE is committed to the health and safety of our members and conference attendees.

- Masks may be worn at the individual's discretion. Masks are not required inside the conference hotels but are strongly encouraged.
- Hand sanitizing stations will be positioned throughout the meeting space.
- If symptoms develop, attendees should NOT attend sessions and can join the conference virtually.
- If an attendee tests positive while at the conference, he or she may quarantine at the conference hotel at their own expense and should report the positive test to ASHRAE staff.
- View the full Commitment to Care at [commitment-to-care.pdf \(ashrae.org\)](https://www.ashrae.org/commitment-to-care.pdf)

Welcome



TC 8.5 Call to Order and Scope

ASHRAE Technical Committee 8.5 Liquid to Refrigerant Heat Exchangers

TC 8.5 is concerned with the thermal and mechanical design, performance, and application of devices for accomplishing heat transfer between refrigerants (including secondary refrigerants) and liquids. Such devices include liquid cooled refrigerant condensers and refrigerant evaporators for cooling liquids.

ASHRAE Code of Ethics

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>

Introduction of Members and Guests

Introduction of our members and guests...

Please give your name and affiliation, and any TC 8.5 committee duties you have.

In-person attendees will go first

- Please be sure to note your attendance on the sign-in sheet.
 - Either circle your name on the roster or print on sign in sheet

Online attendees will go next

- Wait for a brief pause, and then speak. Remember to unmute before speaking, and then mute again after you have finished speaking.
- Please send an email to TC0805@ashrae.net with subject “attendance 2/9” so we can log your attendance. Make sure the email contains your full name and please indicate if you are a YEA member.

Quorum Determination

- Nick Zupp (chair) '26
- Pratik Deokar (Vice Chair) '26 or '28
- Kashif Nawaz '27
- Joseph Huber '27
- Benjamin Dingel '26
- Vikrant Aute '29
- Gurunarayana Ravi '26
- Achim Gotterbaum ' 29
- Dhruv Hoysall '27
- Justin Kauffman '28
- Michael Wilson '29

Blue – Inperson Red - Virtual

**_7_ Voting Members Present
Of 11
Quorum Not Achieved**

Voting Members roll off after June 30 of the year indicated

Curret Positions on TC and Email Aliases

- Nick Zupp – Chair (TC0805@ashrae.net)
 - Pratik Deokar - Vice Chair (TC0805.VCH@ashrae.net)
 - Pedro Perez – Secretary (TC0805.SEC@ashrae.net)
 - Proshat Mehdizad – Program (TC0805.PRO@ashrae.net)
 - Pedro Perez – Webmaster (TC0805.WEB@ashrae.net)
 - Kashif Nawaz – Research (TC0805.RES@ashrae.net)
 - Joe Huber – Standards (TC0805.STD@ashrae.net)
 - Arindom Joarder – Handbook (TC0805.HBK@ashrae.net)
 - Satheesh Kulankara – Membership
 - Satheesh Kulankara – MTG LGWP Representative
 - Vikrant Aute – MTG LGWP Representative (Alternate)
-
- The full list of aliases can be found on the Technical Committees page on the ASHRAE website

Approval of Minutes from Annual Meeting

- Minutes from the 2025 Annual Meeting in Phoenix were sent out 14 January 2026 and updated 25 January 2026
 - Does anyone want to review / discuss / correct?
 - Motion for Approval: Justin Kaufman
 - Second: Mike Wilson
 - Vote
 - For Approval: 7
 - Against approval: 0
 - Abstain:0
 - Not Present:3

TC8.05 Vote to Continue as a TC

- As a TC we are required to vote on Continuing, Merging with another TC or Disbanding at least every other year
- Discussion
 - Motion for Approval of Continuing As we Are: Achim
 - Second: Justin
 - Votes
 - For Approval: 7
 - Against approval: 0
 - Abstain: 1
 - Not Present: 3

TC8.05 Vote for Potential Changes in Scope

- As a TC we are required to discuss our scope at least every other year
- Discussion – **Anyone desiring a change to e-mail chair and an interim meeting will be held**
- Changes?
 - Motion for Approval of any changes desired:
 - Second:
 - Vote for Approval of any changes desired
 - For Approval:
 - Against approval:
 - Abstain:
 - Not Present:

TC8.05 Membership

- Healthy roster with 101 members
 - 10 YEA members
 - 15 Pro CM
 - 11 Voting Members
- The following are rolling off as voting members after the Annual meeting
 - Nick Zupp (chair) '26
 - Benjamin Dingel '26
 - Gurunarayana Ravi '26
- After June 30, 2026 our voting membership will be:
 - Pratik Deokar (Vice Chair) '28
 - Kashif Nawaz '27
 - Joseph Huber '27
 - Justin Kaufman '28
 - Achim Gotterbaum '28
 - Mike Wilson '28
 - Vikrant Aute '28

TC8.05 Membership

- Proposed new members and terms
 - Omar Abdelaziz '30
 - Adnan Ayub '30
 - Jim Bogart
 - Pedro Perez
 - Laura Collazo Carballude
- Leadership for next society year, post 30 June 2026
 - These are each 2 year commitments
 - Normally we roll up the leadership Vice Chair becomes Chair, Secretary becomes Vice Chair and we select a new secretary
 - Chair – Pratik Deokar
 - Vice Chair – Pedro Perez
 - Secretary – Adnan Ayub

TC8.05 MTG.LowGWP

- MTG meet on Wednesdays of the conference. Last meeting on 6/25/2025 at Phoenix
- One program co-sponsored by the MTG.LowGWP at Las Vegas as part of AHR Expo (not ASHRAE program track)
 - Maintenance Checklists to Improve Cooling Plant Performance (co-sponsored by ASHRAE and UNEP)
- Research
 - RP 1806 “Flammable Refrigerants Post-Ignition Simulation and Risk Assessment Update”
 - Recommendation on Go/No Go on next phases of the project awaited
- Codes and Standards subcommittee continues to track updates to various codes and standards related to the use of lower GWP refrigerants

TC8.05 MTG.LowGWP

- Discussion within MTG on MTG needs to continue
- Discussion within MTG on the scope of MTG
 - Current scope includes LCCP related activities, which now may be more appropriate for CEBD
- Scope: MTG.LowGWP will coordinate TC/TG/TRG technical activities to help transition the HVAC&R industry to sustainable lower Global Warming Potential (GWP) alternative refrigerants. The MTG will further request participation from US DOE, AHRI, and others with shared goal. The MTG responsibilities include research, development and presentation of technical programs of all types on alternative lower GWP refrigerants, suggestions for Life Cycle Climate Performance (LCCP) systems evaluation for different applications, development of lower GWP solutions for different applications, and a special publication detailing aspects of LCCP applied to the HVAC&R fields.
- Continuation of MTG: Motion to Continue Jie Second Mike Vote 8 For 0Against 0Abstain 3NP
- Scope of MTG Motion to eliminate LCCP from Scope Motion Justin Second Mike W Vote 8 For 0 Against 0 Abstain NP

TC8.05 MTG.LowGWP

- Recommendation
 - MTG continue with a revised scope that deletes LCCP related activities at least until TRP 1806 is complete
- TC 8.5 representation
 - Satheesh Kulankara (primary)
 - Vikrant Aute (Alternate 1)
 - Need an Alternate 2
 - Mike Wilson

- Arindom Joarder is Handbook Subcommittee Chair
- TC 8.5 is responsible for Chapters 39 and 42 of the ASHRAE HVAC Systems and Equipment Handbook
 - Chapter 39 – Condensers
 - Chapter 42 – Liquid Coolers ([Recommendation that this name should be updated](#))
- Both Chapters at start of update cycle, most recently published in 2024
- Handbook in pdf version available through the technology portal of ASHRAE (technologyportal.ashrae.org)
- Handbook Liaison (our chapters): Derek Crowe (derek.crowe@stantec.com)
- Did the Handbook chair attend training? __Sorta__

- Data for TC Activity Form

Handbook Responsibilities		
Total Number of Chapters	2	
Chapter(s) approved at this meeting	0	
Special Publications (last six months)	0	Title(s):



TC 8.5: Liquid to Refrigerant Heat Exchangers

Program Subcommittee Updates

Proshat Mehdizad

2026 Winter Program Statistics

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2026 Annual Meeting - Austin— June 27 – July 1, 2026

Fundamentals and Applications

- Track Chair: Mikeal Salonvaara | salonvaaramh@ornl.gov

HVAC&R Systems and Equipment

- Track Chair: Atilla Biyikoglu | abiyik@gazi.edu.tr

Research Summit

- Track Chair: Craig Bradshaw | crbrad@illinois.edu

Workforce Development

- Track Chair: Mike Bilderbeck | mbilderbeck@pickeringfirm.com

Ground Source Heat Pumps

- Track Chair: Ahmed Elatar | elataraf@ornl.gov

Hot Climate Building System Design, Operation and Resilience

- Track Chair: Jie Cai | cai40@purdue.edu

AI in Building Design and Construction

- Track Chair: Jeslu Jacob | jesluceline@gmail.com

Building Decarbonization

- Track Chair: Raul Simonetti | raul.simonetti@carel.com

Key Dates – Austin

Wednesday, Jan. 7, 2026 | Website Opens for Extended Abstracts and Seminar, Workshop, Forum, Debate, and Panel Proposals

Wednesday, Feb 25, 2026 | Debate, Panel, Seminar, Forum, Workshop, and Debate Proposals Due

Wednesday, Feb 25, 2026 | Conference Papers Due

Wednesday, March 25, 2026 | Conference Paper Accept/Revise/Reject Notifications

Thursday, April 2, 2026 | Debate, Panel, Seminar, Forum, Workshop Scheduling Notifications

Wednesday, April 8, 2025 | Revised Conference Papers Due

Wednesday, April 22, 2025 | Conference Paper Final Accept/Reject Notifications

2027 Winter Meeting – Chicago – Jan 23-27, 2027

Conference Chair : Li Song (lsong@ou.edu)

Tentative Topics:

Fundamentals and Applications

HVAC&R Systems and Equipment

Research Summit

Refrigeration and Refrigerants

Residential HVAC Research

Thermal Network Systems

Nexus of Real and Artificial Intelligence Decarbonization

Retrofits

Vikrant to Organize

1 Characterizing Void Fraction in plate HX

2 Ultra Compact HX for Liq to Ref Appl

3 Flow vis in plate HX – HT & VF

Idea: Failure Modes in Compact HX

Upcoming Conferences

2026 Women in ASHRAE Leadership Symposium

- August 13-14, 2026 – Los Angeles, CA

Fourth ASHRAE Developing Economies Conference

- April 24-25, 2026 – Varanasi (Kashi), Uttar Pradesh

2026 ASHRAE Building Decarbonization Conference

- September 23-25, 2026 – Seattle, WA

Ninth International Conference on Energy Research and Development (ICERD – 9)

- November 16-18, 2026 – Kuwait University City, Kuwait

The Seventh International Conference on Efficient Building Design

- October 8 – 9, 2026 – Beirut, Lebanon

TC8.05 Program

- Data for TC Activity Form

Program Activities (For This Meeting)											
Total # of Forums			Total # of Seminars			Total # of Debates			Total # of Paper Sessions		
Submitted*	Accepted*	Co-sponsored**	Submitted*	Accepted*	Co-sponsored**	Submitted*	Accepted*	Co-sponsored**	Submitted*	Accepted*	Co-sponsored**
0	0	0	0	0	0	0	0	0	0	0	0
Other Presentations											
TC Research Results						Other Papers***					

Did the Program Subcommittee chair attend training? _____

- Joseph Huber is the TC8.05 Standards Subcommittee Chair
- **TC 8.5 is responsible for the following Standards:**
 - ANSI/ASHRAE Standard 22-2023
Methods of Testing for Rating Liquid-Cooled Refrigerant Condensers
 - ANSI/ASHRAE Standard 24-2019
Methods of Testing for Rating Evaporators Used for Cooling Liquids
 - [Update and approved last fall now a 2025 standard](#)
 - ANSI/ASHRAE Standard 181-2023
Methods of Testing for Rating Liquid to Liquid Heat Exchangers
- **The revision and publication process was recently completed for**
 - Standard 22-2023
 - Standard 181-2023

TC8.05 Standards Data Activity Form

Joe Huber

- Data for TC Activity Form

Standards Responsibilities	
Total Number of Standards	3
# Standards recommended	0

TC8.05 Webmaster

Pedro Perez



Liquid-to-Refrigerant Heat Exchangers

ASHRAE Technical Committee 8.5

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Agenda

TC805 2025 Winter Las Vegas Meeting Agenda 20260202

Upcoming TC Meetings

Location:	Caesars Palace Las Vegas, NV
Date/Time	Room/Access
TC 1.3 / 8.5 Research Review Meeting Sunday, February 1, 2026 4:00 PM–6:00 PM PST	Caesars Palace, Octavius 21 (PS) Event Details: Click Here.
TC 8.5 Liquid to Refrigerant Heat Exchangers Monday, February 2, 2026 2:30 PM–5:00 PM PST	Caesars Palace, Octavius 20 (PS) Event Details: Click Here.

[See More >](#)

Committee Chair

Mr Nicholas G Zupp

TC0805@ashrae.net

Committee Scope

TC 8.5 is concerned with the thermal and mechanical design, performance, and application of devices for accomplishing heat transfer between refrigerants (including secondary refrigerants) and liquids.

[More >](#)

Upcoming Society Conferences

ASHRAE 2026 Winter Conference
January 31 - February 4, 2026
Las Vegas, NV

<https://www.ashrae.org/conferences/2026-winter-conference>



- **TC 8.5 Website is up-to-date:**
- TC Meeting Schedule ✓
- Phoenix Annual 2025 Meeting Minutes [Draft] ✓
- Orlando Winter 2025 Approved Meeting Minutes ✓

TC8.05 Research

- Kashif Nawaz is the TC8.05 Research Subcommittee Chair
 - Joe Huber filled in
 - For all RTARs make sure they reference the 2025-2028 Strategic Plan
 - ASHRAE has raised \$817k, 5% ahead of last years, goal \$2.7M
 - 2024-2025
 - 2.M Spent
 - 900K for other
 - There is 4M available for Research
 - All current projects are funded
 - RAC would like to see additional RTARs and work statement
 - Training for project monitors is mandatory
 - New Research manual (online now)
 - RAC can now approve projects up to 350K, up to 500K RAC TAC, above add board
 - New online portal for submitting RTARs and WS
 - ASHRAE would like the portal to be used, there is no collaboration features in the portal
- Did Research Chair attend breakfast?_N__

RTAR on low GWP condensation was approved with comments

- 10 for 1 Against
- October 21 e-mail vote
- WS in process

~~TC8.05 voted to co-sponsor RTAR 1983 On Flow Boiling of Propane in enhanced Tubes~~

~~-Accepted as an RTAR~~

TC8.05 Research Data for Activity Form

- Data for TC Activity Form

Current Research Activities (active)	
# of new/revised RTARs submitted	0
# of other active RTARs	1
# of new/revised Work Statements submitted	0
# of other active Work Statements	0
# of active TRPs	0
# of active RPs	0
# of RPs completed & approved at this meeting	0
Problems getting RTAR/WS approved?	YES

TC8.05 Chair Report

- TC Chairs Meeting at 7:00 AM Sunday Morning (6/22/2025)

Time	Topic / Speaker
7:00 am	TAC Welcome Remarks, <i>Satheesh Kulankara (TAC Chair)</i>
7:05 am	Diversity, Equity, and Inclusion (DEI) Activities Update, <i>Devin Abellon</i>
7:15 am	Technology Council - Special Projects Subcommittee Updates, <i>Corey Metzger</i>
7:25 am	Research Advisory Panel (RAP) Update, <i>Chris Wilkins</i>
→ 7:35 am	Global Technical Interactions Committee (GTIC) Update, <i>Stanley Yee</i>
→ 7:50 am	Conferences and Expositions Committee (CEC) Update, <i>Kristen Cetin</i>
8:00 am	Overview of Government Affairs Committee (GAC) Activities, <i>Alice Yates</i>
8:15 am	FG Roster Updates and Reminders, <i>Jason Atkisson</i>
8:25 am	Scheduling Feedback Discussion?
8:30 am	FG Chair's and Member Interaction

Did chair attend TC chair's breakfast? ____

TC8.05 Chair Report – ISO –ASHRAE

- The following slides are from yesterday's Chair Training



International Standards Arena
Mapping of ASHRAE Expertise and Content

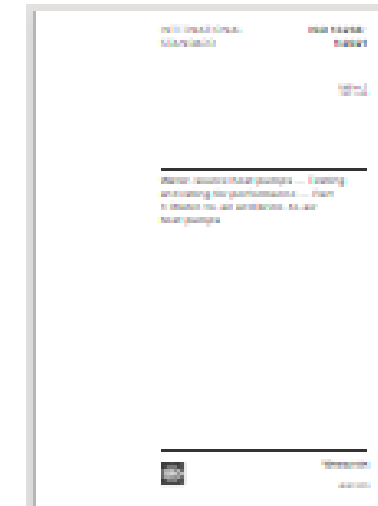
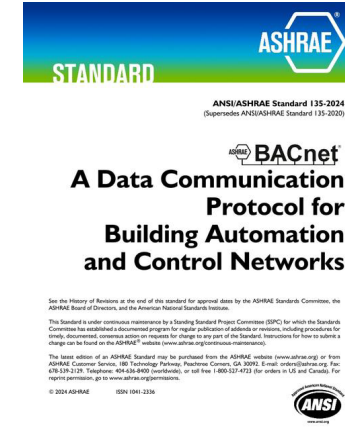
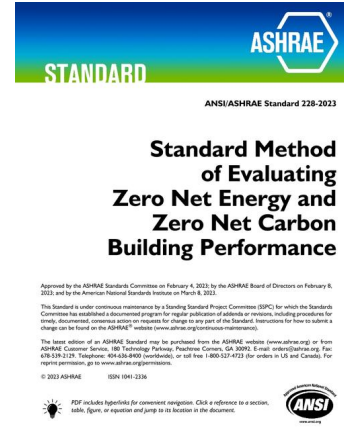
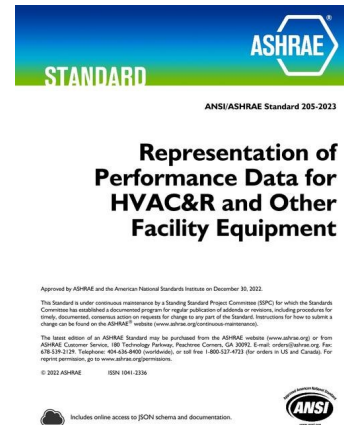
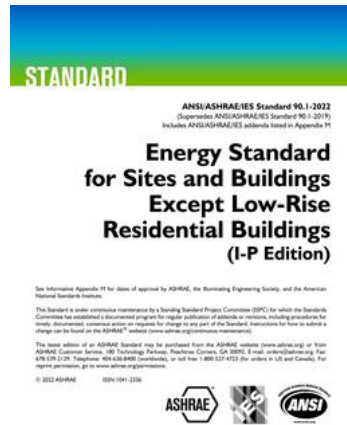
ASHRAE Global Technical Interaction Committee Meeting
2026 ASHRAE Winter Conference – Las Vegas NV (USA)
February 1, 2026

Presented by:
Stanley Yee
Vice-Chair USTAG to ISO/TC 163

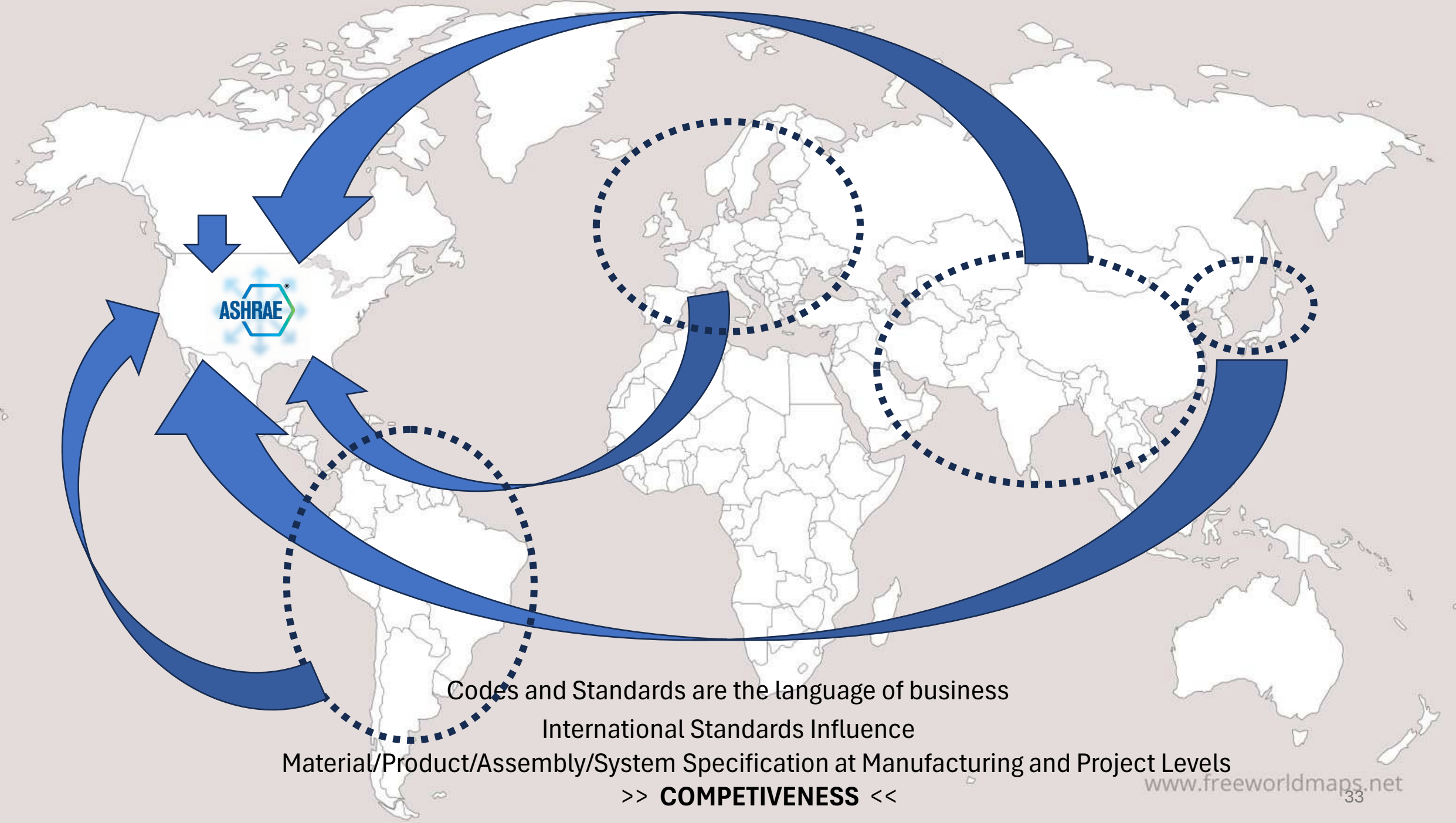
33

Did chair attend TC chair's breakfast? ____

ASHRAE • Well-established Leadership in Research and (Building) Science



Current challenge: Translating the leadership in more consistently and effectively into the International arena



Codes and Standards are the language of business

International Standards Influence

Material/Product/Assembly/System Specification at Manufacturing and Project Levels

>> **COMPETITIVENESS** <<

ASHRAE in the International Arena

US TAG Administrator to (5) ISO TCs:

- ISO/TC 86
- ISO/TC 205
- ISO/TC 163
- ISO/TC 59/SC 13
- ISO/TC 142

Chair and Secretariat to (2) ISO TCs:

- ISO/TC 86 (Committee Manger)
- ISO/TC 205 (Committee Manger)

ISO/TC Mapping with ASHRAE

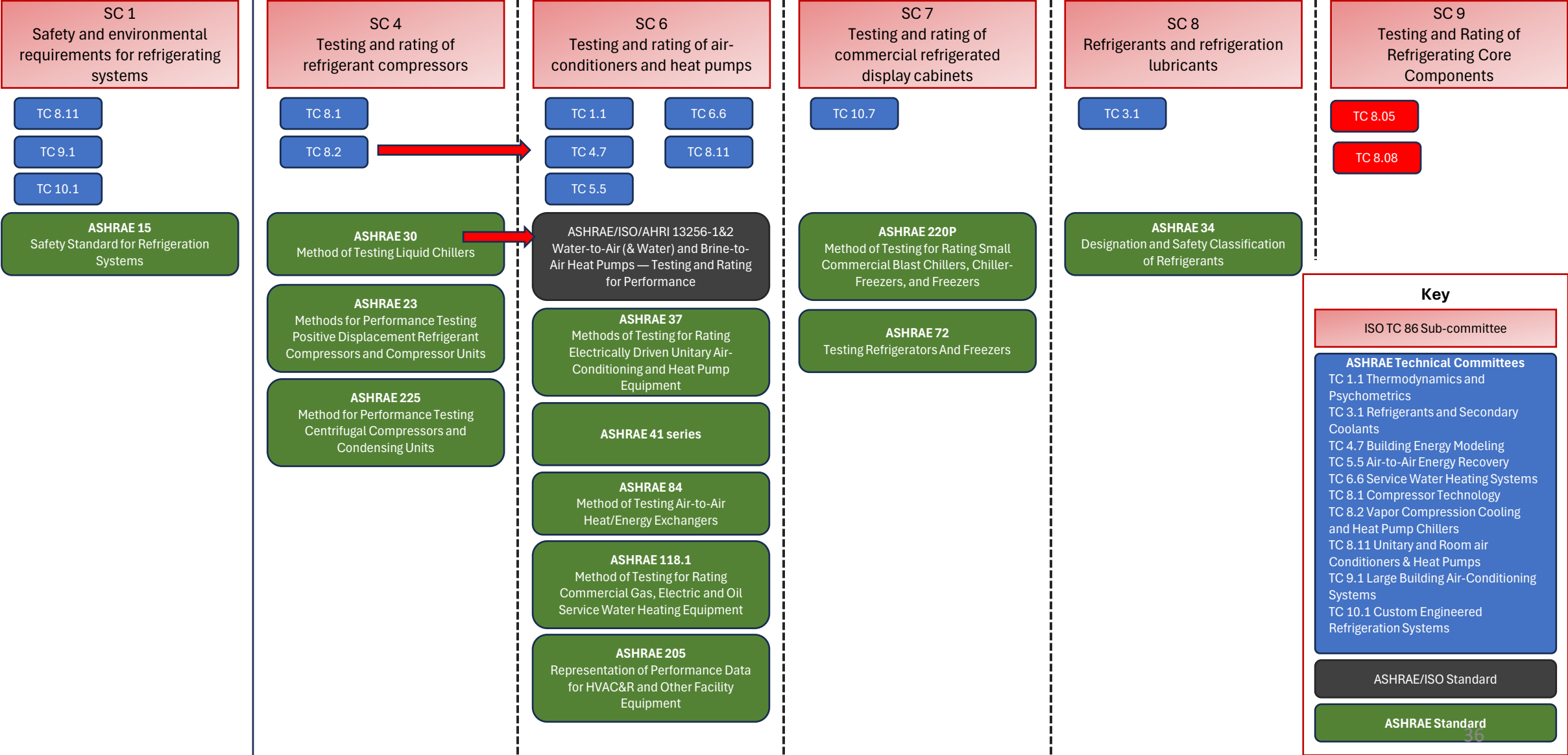
US TAG Administrator to (5) ISO TCs:

- ISO/TC 86
- ISO/TC 205
- ISO/TC 163
- ISO/TC 59/SC 13*
- ISO/TC 142*

*Mapping forthcoming

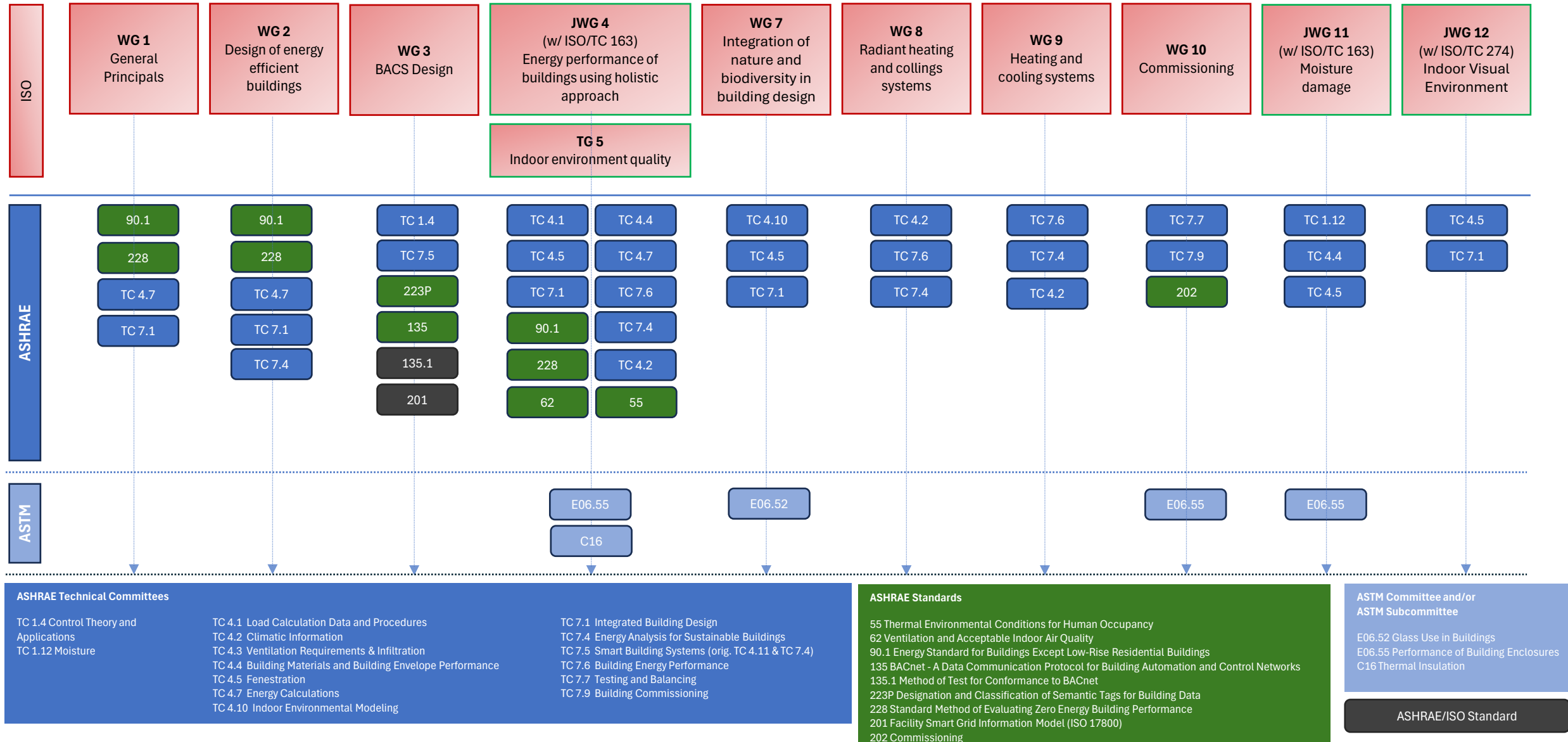
ISO/TC 86

Refrigeration and air-conditioning



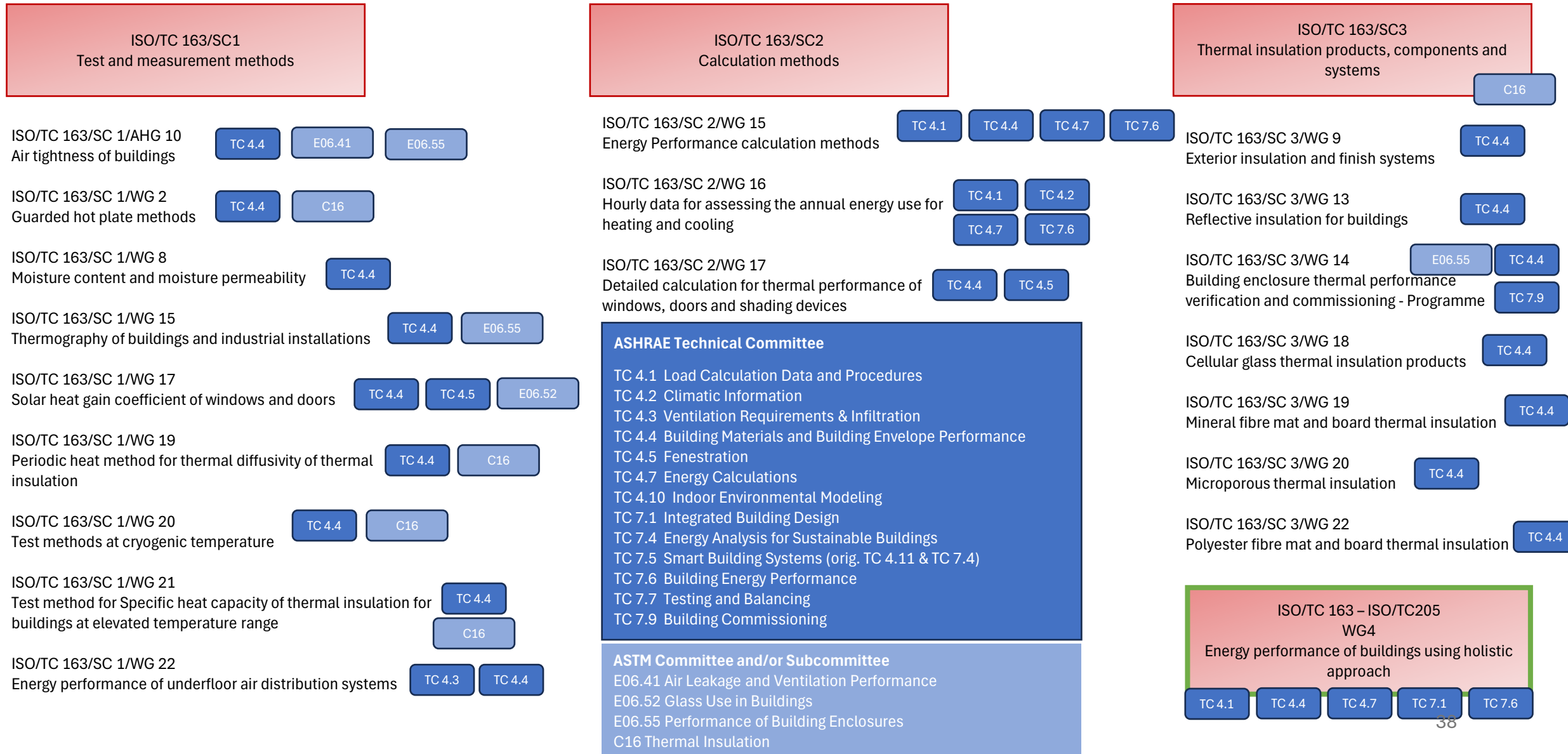
ISO/TC 205

Building environment design



ISO/TC 163

Thermal performance and energy use in the built environment



Call to Action

ASHRAE has a role – and a need – to be involved and engaged in the development of International Standards.

- Before it becomes too late...

GTIC calls on your support and involvement

- Continue ASHRAE's technical leadership in the 'language of business'
- Come forward with your suggestions and engagement through GTIC

Questions?

Contact ► Technical Activities Committee (TAC)

Prepared by:

Stanley Yee

Vice-Chair USTAG to ISO/TC 163

stanleyy@infiniterecycledtech.com

Thank you!

- TBD

TC8.05 Membership

- Term Limits Chair
 - 2 years with a 1 year extension through the approval of the Section Head;
 - The Chair's term is not limited by the policy limiting normal Member and Member Non-Quorum reappointments to four (4) consecutive terms.
- Vice Chair
 - 2 years;
- Chair and Vice Chair MUST BE ASHRAE members!
- The Chair should have served at least one one-year term as Vice Chair or Secretary.
- Corresponding Members can serve in all TC management positions except Chair.
- Refer to the FG Reference for more details



Shaping Tomorrow's
Built Environment Today

Sign-in Sheet TC 8.05

Meeting Info: TC8.5 Liquid to Refrigerant Heat Exchangers Date: 2 February 2026

Name	Affiliation	E-mail	Member (Voting, Corresponding, PCM, or Guest?)	YEA Member? (Yes/No)	Int'l Member? (Yes/No)
NICK MARTIN	API HEAT TRANSFER	nmartin@apiheattransfer.com	Guest	No	No
ADNAN AYUB	ISOTHERM	ADNAN@ISO-THERM -COM	C	N	N
Hofmann Philipp	Wieland	philipp.hofmann@wieland.com	Guest	N	N
KALYAN BOYINA	TRANE TECHNOLOGIES	kalyan.boyina@trane.com	C Guest	Y	N
EDITH LUNEINA JOSEPH	JOHNSON CONTROLS	edithluneina@gmail.com	C	Y	N
Amrout Bou ABBAD	PIANFOSS	amrout.bouabbad @gmail.com	Guest	N	Y
Muhammad Mohsin Tanveer	Trane Tech.	mohsin.tanveer@trane.com	Guest	X	N
Nilesh Porohit	Solslice	Nilesh.Porohit@solslice.com	PRO CM	N	N
Naimish Pandya	Johnson controls	naimish.pandya@ sci.com	PRO CM	N	N

LIQUID-TO-REFRIGERANT HEAT EXCHANGERS-T-TAC-TC08.05

As of 1/14/2026 9:07:24 PM

Corresponding Member

8370585 125 Non-voting

Term in Position: 07/01/2011 to

Term on Committee: to

Mr Eduardo Nunez

591 PLEASANT GROVE RD

STAUNTON, VA 24401-6520

Daikin

Phone: Fax:

Email: eduardo.nunez@daikinapplied.com

CORRESPONDING MEMBER

3036974 026 Non-voting

Term in Position: 07/01/2001 to

Term on Committee: 07/01/1992 to 06/30/2002

Prof Michael M Ohadi

University of Maryland

DEPT OF MECHANICAL ENGINEERING

COLLEGE PARK, MD 20742-0001

Phone: (301)405-5263 Fax: (301)405-2025

Email: ohadi@umd.edu

Corresponding Member

5059607 Non-voting

Term in Position: 07/01/2020 to

Term on Committee: 07/01/1997 to 06/30/2020

Mr Kaushik Oza

517 CROWN POINT DR

BUFFALO GROVE, IL 60089-1659

Phone: (217) 401-9154 Fax: 847 2152789

Email: kashoza@yahoo.com

Corresponding Member

8204513 068 Non-voting

Term in Position: 07/01/2013 to

Term on Committee: 07/01/2015 to 06/30/2015

Dr Kishan Padakannaya

4120 CANNON DR

NORMAN, OK 73072-6509

Bosch Home Comfort Group

Phone: (734) 347-3900 Fax:

Email: kishan.padakannaya@bosch-hcgroup.com

Corresponding Member

8188283 064 Non-voting

Term in Position: 07/01/2019 to

Term on Committee: 07/01/2011 to 06/30/2019

Dr Sankar**Padhmanabhan**

1907 GARDEN TERRACE DR

KATY, TX 77494-7546

Danfoss

Phone: (410)513-1149 Fax:

Email: sankar@danfoss.com

Corresponding Member

5063227 Non-voting

Term in Position: 01/21/2008 to

Term on Committee: 07/01/1992 to 01/20/2008

Mr Parviz Payvar

Northern Illinois Univ Dept Of Mech Engg

Phone: (815)753-9970

Fax: (815)753-1310

Email:

Corresponding Member

8123426 503 Non-voting

Term in Position: 07/01/2023 to

Term on Committee: 07/01/2009 to 06/30/2023

Mr Stanislav Perencevic

Guntner GmbH & Co. KG

Hans-Guentner-Strasse 2-6

Fuerstenfeldbruck, 82256 GERMANY

Phone: (49) 814-1242 Fax: +498141242 (5248)

Email: stanislav.perencevic@guentner.de

Corresponding Member

8185958 Non-voting

Term in Position: 07/01/2016 to

Term on Committee: 07/01/2012 to 06/30/2016

Mr Justin Piggush

Trane

3600 PAMMEL CREEK RD

LA CROSSE, WI 54601-7599

Phone: (608)797-3989 Fax:

Email: justin.piggush@trane.com

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Corresponding Member

8255431 025 Non-voting

Term in Position: 07/01/2024 to

Term on Committee: 02/27/2015 to 06/30/2024

Dr Icksoo Kyung5000 RENAISSANCE DR
CLARKSVILLE, MD 21029

Johnson Controls, Inc

Phone: (301) 346-1803 Fax: (717)771-7335

Email: iskyung65@gmail.com

Corresponding Member

8241535 052 Non-voting

Term in Position: 01/27/2018 to

Term on Committee: to

Prof Jun Li YEA111 CHURCH ST SE
MINNEAPOLIS, MN 55455-0150

University of Minnesota

Phone: (765)250-1806 Fax:

Email: junli1@umn.edu

Corresponding Member

8295931 Non-voting

Term in Position: 07/01/2017 to

Term on Committee: 06/27/2016 to 06/30/2017

Dr Puxuan Li1560 WATERFORD PL APT 6
MANHATTAN, KS 66502-0418

Kansas State University

Phone: (337)292-1179 Fax:

Email: puxuanli@ksu.edu

Corresponding Member

8044982 045 Non-voting

Term in Position: 07/01/2012 to

Term on Committee: to

Dr Liping Liu21000 W 10 MILE RD
SOUTHFIELD, MI 48075-1051

Phone: (248)204-2528 Fax:

Email: lliu1@ltu.edu

Corresponding Member

5135911 010 Non-voting

Term in Position: 07/01/2011 to

Term on Committee: to

Mr Scott M MacBain, Sr4615 NATURES CIR
SYRACUSE, NY 13215-9322

Carrier Corporation

Phone: (315) 727-2155 Fax: 860-998-0113

Email: scott.macbain@carrier.com

Corresponding Member

5083888 022 Non-voting

Term in Position: 07/01/2002 to

Term on Committee: 07/01/2012 to 06/30/2013

Mr William F McQuade, LEED AP, PEBaltimore Aircoil Company
1330 SCONSETT WAY

NEW CUMBERLAND, PA 17070-2252

Phone: (717)215-3553 Fax:

Email: bmcquade@baltimoreaircoil.com

Corresponding Member

5084535 207 Non-voting

Term in Position: 07/01/2005 to

Term on Committee: 07/01/2000 to 06/30/2005

Prof Josua P Meyer, PhDStellenbosch University
Mechanical Engineering
Joubert street

Stellenbosch, 7600 SOUTH AFRICA

Phone: 27124203104 Fax: 2-712-346-2587

Email: josua7meyer@gmail.com

Corresponding Member

8398334 010 Non-voting

Term in Position: 07/01/2022 to

Term on Committee: 02/11/2025 to 06/30/2025

Dr Lokanath Mohanta4463 SWISSVALE DR
MANLIUS, NY 13104-9561

Carrier Corporation

Phone: 814-880-2421 Fax:

Email: lokanath.mohanta@carrier.com

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Corresponding Member

5018252 022 Non-voting

Term in Position: 07/01/2018 to

Term on Committee: 07/01/2002 to 06/30/2018

Mr James E Bogart

386 GLEN ROCK RD

GLEN ROCK, PA 17327-8306

API Heat Transfer

Phone: 224-585-7976

Fax:

Email: jebogart1@aim.com

Corresponding Member

8283135 503 Non-voting

Term in Position: 07/01/2021 to

Term on Committee: 06/19/2019 to 06/30/2021

**Mr Antoine BOU
ABBoud**

29 Rue de Laufromont

Epinal, 88000 FRANCE

DANFOSS

Phone: 0033643665173

Fax:

Email: antoine.bouabboud@gmail.com

Corresponding Member

5071762 026 Non-voting

Term in Position: 07/01/2014 to

Term on Committee: 06/26/2013 to 06/30/2014

Mr Steve Brown

The Catholic Univ Of America

620 MICHIGAN AVE NE

620 MICHIGAN AVE NE

WASHINGTON, DC 20064-0001

Phone: (202)319-4738

Fax: 202-319-5173

Email: brownjs@cua.edu

Corresponding Member

5076178 Non-voting

Term in Position: 07/01/2014 to

Term on Committee: to

Mr Mallikarjuna S Chitti

13862 NW 23RD ST

PEMBROKE PINES, FL 33028-2622

Nordyne Intl

Phone: (405)360-3688

Fax:

Email: umallikchitti@yahoo.com

Corresponding Member

8475772 115 Non-voting

Term in Position: 07/01/2025 to

Term on Committee: 01/22/2024 to 06/30/2025

**Ms Laura Collazo
Carballude**

2117 ADAMS ST

LA CROSSE, WI 54601-5947

Trane Technologies

Phone: 608-871-2810

Fax:

Email: laura.collazocarballude@trane.com

Corresponding Member

8091171 057 Non-voting

Term in Position: 07/01/2020 to

Term on Committee: 01/21/2009 to 06/30/2020

**Prof Lorenzo Cremaschi,
PhD**

Auburn University

3418B WIGGINS HALLS

AUBURN, AL 36849-0001

Phone: (334)844-3302

Fax: 334-844-3307

Email: lzc0047@auburn.edu

Corresponding Member

8219448 503 Non-voting

Term in Position: 07/01/2014 to

Term on Committee: 06/24/2013 to 06/30/2014

**Dr Ricardo J Da Silva
Lima**

Chemin du Pré-Colomnb 4

Versoix, GE 1290 SWITZERLAND

Phone: +41763477488

Fax:

Email: rs_lima@hotmail.com

Corresponding Member

8246928 053 Non-voting

Term in Position: 01/12/2019 to

Term on Committee: to

Dr Melanie Derby

3002 Rathbone Hall

1701B Platt St.

Manhattan, KS 66506

Phone: (518)727-3618

Fax:

Email: derbym@ksu.edu

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Corresponding Member

8382941 032 Non-voting

Term in Position: 07/01/2021 to

Term on Committee: 11/19/2019 to 06/30/2021

Mr Daniel Almeida5195 OTTER CREEK RUN
CUMMING, GA 30040-6442

LG Electronics

Phone: 770 2382169 Fax:

Email: danieldan88@gmail.com

Corresponding Member

8376348 029 Non-voting

Term in Position: 07/01/2022 to

Term on Committee: 11/12/2021 to 06/30/2022

Mr Austin Armstrong

Trane Technologies

1499 BROOK COVE RD

WALNUT COVE, NC 27052-6893

Phone: (336)480-5288 Fax:

Email: Austin.Armstrong@Trane.com

Corresponding Member

8040444 070 Non-voting

Term in Position: 07/01/2024 to

Term on Committee: 06/30/2016 to 06/30/2024

Dr Adnan H Ayub7410 SECLUSION RIDGE DR
ARLINGTON, TX 76001-1503

Isotherm Inc

Phone: (817)709-9077 Fax:

Email: adnan@iso-therm.com

Corresponding Member

8368602 067 Non-voting

Term in Position: 01/23/2019 to

Term on Committee: to

Kunal Bansal

Lennox

1600 Metrocrest Dr

Carrollton, TX 75006

Phone: (770)465-5696 Fax:

Email: kunal.bansal@lennox.com

Corresponding Member

8234709 030 Non-voting

Term in Position: 07/01/2021 to

Term on Committee: 02/04/2020 to 06/30/2021

Mr Alireza Behfar9701 OLD STATESVILLE RD
CHARLOTTE, NC 28269-7630

Carrier

Phone: (402) 203-2038 Fax:

Email: arbehfar@gmail.com

Corresponding Member

5203025 Non-voting

Term in Position: 07/01/2020 to

Term on Committee: 07/01/2011 to 06/30/2020

Dr Satyam Bendapudi

8324 PRESERVE PKWY

MANLIUS, NY 13104-8351

Carrier

Phone: (315)432-6435 Fax: 8606608837

Email: satyam.bendapudi@carrier.com

Corresponding Member

8193987 227 Non-voting

Term in Position: 07/01/2015 to

Term on Committee: to

Dr Andrea Bigi

via Agnesi, 1

Monza, 20900 ITALY

Phone: (405)332-1393 Fax:

Email: andybigi@gmail.com

Corresponding Member

8251763 207 Non-voting

Term in Position: 07/01/2024 to

Term on Committee: 08/11/2022 to 06/30/2024

Dr Bradley Denis Bock

University of Pretoria

Hatfield Campus

Cnr Lynnewood Road/University Road

Hatfield, 0083 SOUTH AFRICA

Phone: Fax:

Email: bradley.bock@up.ac.za

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Provisional Corresponding Member

8356914 Non-voting

Term in Position: 02/07/2025 to 06/30/2027

Term on Committee: 02/07/2025 to 06/30/2027

Dr Xiaoli Liu YEA

14205 CYPRESS CT

ALPHARETTA, GA 30005-3590

Oak Ridge National Laboratory

Phone: (765)464-4881 Fax:

Email: shellyliu2251@gmail.com

Provisional Corresponding Member

8471287 025 Non-voting

Term in Position: 11/20/2025 to 06/30/2027

Term on Committee: 11/20/2025 to 06/30/2027

Mr Naimish Sanjaybhai Pandya YEA

2306 CHETWOOD CIR APT 304

LUTHERVILLE TIMONIUM, MD 21093-2437

Johnson Controls

Phone: (919) 949-3323 Fax:

Email: npandya2@ncsu.edu

Provisional Corresponding Member

8469815 038 Non-voting

Term in Position: 02/10/2025 to 06/30/2027

Term on Committee: 02/10/2025 to 06/30/2027

Dr James Tancabel YEA

University of Maryland, College Park

8259 CEDAR GROVE DR

MACEDONIA, OH 44056-1577

Phone: 330-506-9457 Fax:

Email: jmtanc@umd.edu

Provisional Corresponding Member

8538738 068 Non-voting

Term in Position: 06/27/2025 to 06/30/2027

Term on Committee: 06/27/2025 to 06/30/2027

Mr Suman Timsina Eng

808 N MONROE ST

STILLWATER, OK 74075-4014

Oklahoma State University

Phone: 405-332-0712 Fax:

Email: suman.timsina@okstate.edu

Provisional Corresponding Member

8454126 114 Non-voting

Term in Position: 01/24/2024 to 01/24/2026

Term on Committee: 01/24/2024 to 01/24/2026

Dr Pengtao Wang

Oak Ridge National Laboratory

PO BOX 2008

OAK RIDGE, TN 37831-2008

Phone: (978)387-9412 Fax:

Email: wangp@ornl.gov

Provisional Corresponding Member

8132432 115 Non-voting

Term in Position: 06/23/2025 to 06/30/2027

Term on Committee: 06/23/2025 to 06/30/2027

Dr Scott S Wujek

1113 10TH AVE N

ONALASKA, WI 54650-2108

Apple

Phone: 815-910-9453 Fax:

Email: scott.wujek@gmail.com

Corresponding Member

8079187 211 Non-voting

Term in Position: 07/01/2014 to

Term on Committee: 07/01/2009 to 06/30/2014

Omar A Abdelaziz, PhD

Villa 136 Gardenia Park 2

6th October, Giza 12589 EGYPT

The American University in Cairo

Phone: +201023483199 Fax: 865-574-9338

Email: omar.abdel.aziz@gmail.com

Corresponding Member

8032054 Non-voting

Term in Position: 07/01/2016 to

Term on Committee: 01/28/2009 to 06/30/2016

Dr Ebrahim S Al-Hajri

Villa 13, 3 Street, Khalifa City

PO Box 146813

Khalifa City, UNITED ARAB EMIRATES

Petroleum Institute

Phone: +971556649955 Fax: 26075194

Email: ealhajri@ashraeuae.org

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Provisional Corresponding Member

8515445 068 Non-voting

Term in Position: 06/24/2024 to 06/30/2026

Term on Committee: 06/24/2024 to 06/30/2026

Mr Saqib Ayuob YEA

3RD FLOOR, ROOM # D

616 N WASHINGTON ST

STILLWATER, OK 74075-4832

Oklahoma State University

Phone: 405-269-3552 Fax:

Email: sayuob@okstate.edu

Provisional Corresponding Member

8160284 068 Non-voting

Term in Position: 03/04/2025 to 06/30/2027

Term on Committee: 03/04/2025 to 06/30/2027

**Dr Christian Konrad
Ludwig Bach**

5607 W 44TH ST

STILLWATER, OK 74074-2049

Oklahoma State University

Phone: (765)426-7804 Fax:

Email: cbach@okstate.edu

Provisional Corresponding Member

8386808 048 Non-voting

Term in Position: 06/23/2025 to 06/30/2027

Term on Committee: 06/23/2025 to 06/30/2027

**Mr A B M Imran
Chowdhury** YEA

737 N 21ST ST APT 212

MILWAUKEE, WI 53233-1947

Cleaver-Brooks, Inc.

Phone: (405)612-6168 Fax:

Email: imranc009@gmail.com

Provisional Corresponding Member

8206725 072 Non-voting

Term in Position: 03/08/2024 to 06/30/2026

Term on Committee: 03/08/2024 to 06/30/2026

Mr Gabriel Anthony Garza YEA

5456 Colin Powell Ave

El Paso, TX 79934-2822

Mitsubishi Electric Trane HVAC US LLC

Phone: (915) 637-1337 Fax:

Email: garzag30@gmail.com

Provisional Corresponding Member

8164368 052 Non-voting

Term in Position: 05/16/2025 to 06/30/2027

Term on Committee: 05/16/2025 to 06/30/2027

Dr Evraam Gorgy

Daikin Applied

13600 INDUSTRIAL PARK BLVD

PLYMOUTH, MN 55441-3743

Phone: (608) 787-3213 Fax:

Email: evraam.gorgy@gmail.com

Provisional Corresponding Member

8585947 Non-voting

Term in Position: 10/20/2025 to 06/30/2027

Term on Committee: 10/20/2025 to 06/30/2027

**Rishab Vardhan
Harikrishnan**

Oracle

8358 17TH AVE NW

SEATTLE, WA 98117-3618

Phone: Fax:

Email: vardhan.rishab@yahoo.com

Provisional Corresponding Member

8536446 Non-voting

Term in Position: 12/09/2024 to 06/30/2026

Term on Committee: 12/09/2024 to 06/30/2026

Mr Robin John

OTS R&D

1170 Middlebury Ave

Oshawa, ON L1K2P3 CANADA

Phone: (647)393-9719 Fax:

Email: bjohn@ots-rd.com

Provisional Corresponding Member

8252728 026 Non-voting

Term in Position: 11/24/2024 to 06/30/2026

Term on Committee: 11/24/2024 to 06/30/2026

Mr Paul Kalinowski

OTS R&D, Inc.

7040 VIRGINIA MANOR RD

BELTSVILLE, MD 20705-1269

Phone: (866)485-8233 Fax:
(29)

Email: pkalinowski@ots-rd.com

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Member
8020971 026 Voting

Term in Position: 07/01/2025 to 06/30/2029

Term on Committee: 07/01/2014 to 06/30/2029

Dr Vikrant C Aute

University of Maryland

4164G GLENN MARTIN HALL
4298 CAMPUS DR. DEPT OF MECH ENGG

COLLEGE PARK, MD 20742-0001

Phone: (301)405-8726 Fax:

Email: vikrant@umd.edu

Member
5169933 115 Voting

Term in Position: 07/01/2022 to 06/30/2026

Term on Committee: 07/01/2001 to 06/30/2026

Mr Benjamin E Dingel

Trane Co

2213 20TH ST S

LA CROSSE, WI 54601-6727

Phone: (608)787-4220 Fax: 608-787-2963

Email: bdingel@trane.com

Member
8196264 503 Voting

Term in Position: 07/01/2025 to 06/30/2029

Term on Committee: 07/01/2012 to 06/30/2029

**Dr Achim Gotterbarm,
PhD**

Wieland-Werke AG

Graf-Arco-Str. 36

Ulm, BW 89079 GERMANY

Phone: +497319442489 Fax:

Email: achim.gotterbarm@wieland.com

Member
8386488 Voting

Term in Position: 07/01/2023 to 06/30/2027

Term on Committee: 01/09/2020 to 06/30/2027

Dr Dhruv Hoysall

Carrier

1300 HALL BLVD # A-01

BLOOMFIELD, CT 06002-2918

Phone: (860)697-3794 Fax:

Email: dhruv.hoysall@carrier.com

Member
8027542 022 Voting

Term in Position: 07/01/2024 to 06/30/2028

Term on Committee: 07/01/2009 to 06/30/2028

Mr Justin P Kauffman

Johnson Controls

MS 1W

5000 RENAISSANCE DR

NEW FREEDOM, PA 17349-8979

Phone: (717)771-7154 Fax:

Email: justin.p.kauffman@jci.com

Member
8223170 067 Voting

Term in Position: 07/01/2022 to 06/30/2026

Term on Committee: 06/24/2019 to 06/30/2026

Mr Gurunarayana Ravi

1600 METROCREST DR

CARROLLTON, TX 75006-5729

Lennox International

Phone: (281)907-2901 Fax:

Email: gurunarayana.ravi@lennox.com

Member
8283544 069 Voting

Term in Position: 07/01/2025 to 06/30/2029

Term on Committee: 06/27/2016 to 06/30/2029

Dr Michael Wilson

Climate Control Group

1347 E 37TH ST

TULSA, OK 74105-3205

Phone: Fax:

Email: mike.wilson.75@yahoo.com

Provisional Corresponding Member

8540663 115 Non-voting

Term in Position: 08/28/2025 to 06/30/2027

Term on Committee: 08/28/2025 to 06/30/2027

Ali Ahmadi

2091 ABBEY RD APT 204

ONALASKA, WI 54650-5410

Trane Technologies

Phone: 5312337037 Fax:

Email: aliakbar.ahmadi@tranetechnologies.com

LIQUID-TO-REFRIGERANT HEAT EXCHANGERS-T-TAC-TC08.05

As of 1/14/2026 9:07:24 PM

Chair/Vice Chair

5116459 125 Voting

Term in Position: 07/01/2024 to 06/30/2026

Term on Committee: 07/10/2017 to 06/30/2026

Mr Nicholas G Zupp

1814 SPRING HILL RD UNIT B

STAUNTON, VA 24401-9021

Modine Manufacturing

Phone: Fax:

Email: nicholaszupp@yahoo.com

Vice Chair

8202113 067 Voting

Term in Position: 07/01/2025 to 06/30/2026

Term on Committee: 07/01/2015 to 06/30/2026

Pratik S Deokar, PhD

800 RICHMOND DR

MCKINNEY, TX 75071-6060

Rheem Manufacturing

Phone: (405)714-8432 Fax:

Email: pratikdeokar@gmail.com

Secretary/Webmaster

8238610 069 Non-voting

Term in Position: 07/01/2025 to

Term on Committee: 07/01/2015 to 06/30/2025

Pedro Perez

2416 E 8TH ST

TULSA, OK 74104-3312

Danfoss

Phone: (405)240-8013 Fax:

Email: pedro.perez@danfoss.com

Handbook Subcommittee Chair

8031285 010 Non-voting

Term in Position: 07/01/2024 to

Term on Committee: 06/24/2022 to 06/24/2024

Dr Arindom Joardar, PhD

Carrier Corporation

PO BOX 4805

SYRACUSE, NY 13221-4805

Phone: (315)432-6584 Fax: 860-622-6777

Email: arindom.joardar@carrier.com

Membership Subc Ch/MTG.Low GWP Liaison

5215791 022 Non-voting

Term in Position: 07/01/2021 to

Term on Committee: 07/01/2025 to 06/30/2026

Dr Satheesh Kulankara

2571 EL DORADO DR

YORK, PA 17402-8255

Johnson Controls

Phone: (717) 659-1048 Fax: 717-771-7475

Email: satheesh.kulankara@jci.com

Program Subcommittee Chair

8281664 032 Non-voting

Term in Position: 07/01/2024 to

Term on Committee: 06/25/2018 to 06/30/2024

Ms Proshat Mehdizad

5555 TIMSON LN

JOHNS CREEK, GA 30022-8116

LJA

Phone: (407)489-8760 Fax:

Email: proshat.mehdizad@gmail.com

Research Subcommittee Chair

8235421 099 Voting

Term in Position: 07/01/2023 to 06/30/2027

Term on Committee: 07/01/2014 to 06/30/2027

Dr Kashif Nawaz, PhD

2426 BLACKBERRY RIDGE BLVD

KNOXVILLE, TN 37932-2391

Oak Ridge National Lab

Phone: (217)377-1528 Fax:

Email: nawazk@ornl.gov

Standards Subcommittee Chair

2051319 070 Voting

Term in Position: 07/01/2023 to 06/30/2027

Term on Committee: 07/01/1996 to 06/30/2027

Mr Joseph B Huber, PhD

2005 REVERCHON DR

ARLINGTON, TX 76017-4425

Standard Refrigeration LLC

Phone: (682)777-8374 Fax:

Email: jhuber@stanref.com



TC/TG/TRG/MTG Chairs Breakfast and Training

Feb 1, 2026

Agenda

Time	Topic / Speaker
7:00 am	TAC Welcome Remarks, <i>Satheesh Kulankara (TAC Chair)</i>
7:05 am	Diversity, Equity, and Inclusion (DEI) Activities Update, <i>Devin Abellon</i>
7:15 am	Technology Council - Special Projects Subcommittee Updates, <i>Corey Metzger</i>
7:25 am	Research Advisory Panel (RAP) Update, <i>Chris Wilkins</i>
7:35 am	Global Technical Interactions Committee (GTIC) Update, <i>Stanley Yee</i>
7:50 am	Conferences and Expositions Committee (CEC) Update, <i>Kristen Cetin</i>
8:00 am	Overview of Government Affairs Committee (GAC) Activities, <i>Alice Yates</i>
8:15 am	FG Roster Updates and Reminders, <i>Jason Atkisson</i>
8:25 am	Scheduling Feedback Discussion?
8:30 am	FG Chair's and Member Interaction

Quick Reminders

- Roster update
 - Please make sure that the TC Chair has received the link for roster update
- TC Activity Forms
 - Please complete and return the TC activity form by Friday, 2/6/2026 (preferably by Tuesday, 2/3/2026)
 - Please use the correct version of the TC activity form template from the TC Chair's Basecamp site (**Version v26-W1**)
- Discussion of TC/TG/TRG/MTG continuation
 - Per FG and MTG reference manual all FGs and MTGs are required to hold a discussion annually on continuing, merging or disbanding. If your committee has not done this recently, please discuss within the committee and communicate the decision to your Section Head





Diversity, Equity and Inclusion (DEI) Update

Devin Abellon, PE

Board of Directors DEI Advisory Subcommittee Vice Chair

ASHRAE's 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.



What DEI in ASHRAE is NOT

- A political initiative, driven by a liberal agenda
- A quota system that prioritizes checking boxes over merit, excellence or intelligence
- Discriminating against one group while providing unfair advantages to other groups

What DEI is in ASHRAE

- An initiative that promotes a culture that welcomes and engages all volunteers and members
- An initiative that works to reduce barriers so that all members and volunteers have the same opportunity for success
- An effort to build the strongest organizations, poised for success, while not allowing unconscious biases to cloud our judgement



Board of Directors DEI Advisory Subcommittee

Provides recommendations and advice to the Board of Directors on the following:

- Matters relating to improving organizational awareness and performance relating to DEI amongst both staff and the Society membership.
- Develop a DEI strategic plan and annual budgets for the program.
- Recommend policies to increase and improve inclusion within ASHRAE and the HVAC&R Industry and help the Society meets its commitments to fairness and equal opportunities.



DEI Committee: Purpose and Evolution

Why:

- DEI work exists across ASHRAE, but historically lacked consistent ownership, coordination, and Society-level alignment.

What:

- A **DEI Standing Committee**, reporting to **Members Council**, has been approved to provide long-term alignment and continuity.

Role:

- Enable and support **Regions, Chapters, Technical Committees, and Councils** through shared guidance and resources.
- A single committee to ensure alignment, avoid duplication, and ensure no DEI efforts are missed.

How We Got Here (Timeline):

- **2024-2025:** Investigative Ad Hoc reviewed DEI structures and needs.
- **Late 2025:** Standing Committee approved.
- **Current:** Implementation phase underway.



DEI Committee: Transition and Next Steps

Governance Transition:

- The **BOD DEI Advisory Subcommittee** will conclude on June 30.
- To consolidate DEI work, the **Members Council DEI Standing Committee** will launch in July.

Where We Are Now:

- A new **implementation-focused Ad Hoc committee** has been formed.

Ad Hoc Goals:

- Develop the **Rules of the Board (ROB)** and **Manual of Procedures (MOP)**.
- Create **appointment recommendations** for the inaugural Standing Committee.

Next 6 months:

- Launch the DEI Standing Committee
- Align DEI efforts across Society activities
- Begin delivering practical support and resources to volunteers, committees, and regions.



DEI and TAC

- Within your committees, foster a culture that welcomes and engages all volunteers and members
- Work to reduce barriers so that all members and volunteers have the same opportunity for success
- Strengthen your committees, while not allowing unconscious biases to cloud our judgement



Questions?

Technology Council – Special Projects Subcommittee



Corey Metzger, PE
Special Projects Subcommittee Chair



What Constitutes a Special Project

- Substantial outside funding
- Extensive effort required, beyond typical volunteer effort
- Requires administrative and financial oversight
- May be in response to on outside solicitation
- Some Special Projects are also ASHRAE research projects – distinction is extent of outside funding

Role and Responsibility of the Subcommittee and Council

- Approve initiation of each SP, designate the Cognizant Committee, and ratify Project Committee membership
- Administrative and financial oversight of all SPs, acting on behalf of Tech Council
- Monitor each SP and assist as necessary, especially if the project slows or stalls or needs funding assistance

Summary of Procedures for Regular Special Project

- SP Subcommittee provides administrative & financial oversight of all Special Projects.
- SP Subcommittee ratifies approval of all Special Projects.
- SP Subcommittee designates the cognizant committee for Special Projects.
- SP Subcommittee ratifies membership of the Special Project Committee(s).
- SP Subcommittee must approve solicitation / negotiation of funds.
- SP Subcommittee has final approval for selection of any contractors.

Summary of Procedures for Cooperative Special Projects

- Procedures for each Cooperative Special Project will generally be negotiated through a Memorandum of Understanding among the participating organizations.
- Negotiation will be done by the ASHRAE representative to the project with input from the Chair of Technology Council or his/her designee and the Director of Technology.
- SP Subcommittee approves ASHRAE's membership on the Steering Committee.
- SP Subcommittee recommends to Technology Council the approval of the other participating organizations.
- ASHRAE's representative shall have authority to represent ASHRAE on these projects, including approval of the final draft of the document produced, subject to the concurrence of the ASHRAE Special Projects Subcommittee.



Summary of Procedures for Fast Track Special Projects

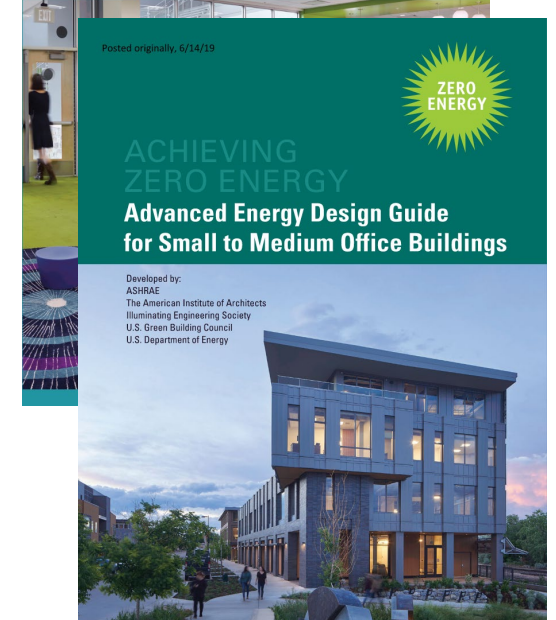
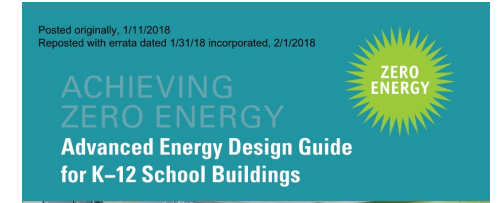
- Concept evaluation via ExCom appointed panel to:
 - Evaluate relevance to ASHRAE's mission
 - Assess ASHRAE's expertise to manage project
 - Authorize go-ahead
- Staff liaison to SP Subcommittee to report at each society meeting (thru SP Subcommittee)

Special Projects Subcommittee

Historical Listing of Completed Projects

Number	COMPLETED PROJECTS	Completion Date
SP 95	Performance of Ext Envelopes of Whole Buildings Int'l Conf	2013-12
Sp 96	Commercial Aircraft Cabin Air Quality Study (1262-RP)	2020
SP 98	Ventilation in Retail Spaces (1596-RP)	2013-01
SP 102	Advanced Energy Design Guide – Small Office Buildings	2004-12
SP 104	Satellite Broadcasts/Expedited Development of Gdl 29 - Risk Management of Public Health & Safety in Bldgs	2009-06
SP 110	Advanced Energy Design Guide – Small Retail Buildings	2006-12
SP 111	Advanced Energy Design Guide – K-12 School Buildings	2008-01
SP 112	Advanced Design Guidance Targeted at 50-70% Beyond Standard 90.1 (Scoping Study)	2007-01
SP 113	Advanced Energy Design Guide – Highway Lodging	2009-06
SP 114	Advanced Energy Design Guide - Warehouses	2008-04
SP 115	Development of Building Performance Measurement Protocols	2010-05
SP 116	Hot and Humid Climate Design Guide	2009-01
SP 117	IEA Compact Heat Exchanger Project	2018-12
SP 117	IEA Heat Pump Programme (HPP) Project	2019
SP 118	Energy Efficiency Guide for Existing Buildings: Business Case for Building Owners/Managers	2009-11
SP 119	<u>Carbon Emission Calculation Tool</u>	2009-06
SP 123	Standard 90.1 Building Energy Benchmarks	2010-02
SP 124	Under Floor Air Distribution Design Guide (TRG7)	2013-06
SP 125	Energy Efficiency Guide for Existing Buildings: Technical Guide	2011-11
SP 126	Energy Efficiency Guide for Existing Buildings: Operation and Maintenance	Cancelled

Number	COMPLETED PROJECTS	Completion Date
SP 127	Advanced Energy Design Guide – Small Healthcare Facilities	2009-11
SP 129	DASH High Performance Building Database	2012-12
SP 130	Advanced Energy Design Guide Market Assessment	2010-04
SP 131	Design Guide for Sustainable Refrigeration Facilities and Systems (1634-RP)	CLOSED
SP 132	PMP Best Practices Design Guide	2012-10
SP 133	50% Advanced Energy Design Guide – Small to Medium Office Buildings	2011-05
SP 134	50% Advanced Energy Design Guide – K-12 School Buildings	2011-12
SP 135	50% Advanced Energy Design Guide – Medium to Big Box Retail Buildings	2012-01
SP 136	50% Advanced Energy Design Guide – Large Hospitals	2012-05
SP 137	Refrigeration Commissioning Guide	2014-01
SP 138	50% Advanced Energy Design Guide for Grocery Stores	2015-10
SP 139	Zero Energy Advanced Energy Design Guide for K-12 Schools	2018-01
SP 140	Zero Energy Advanced Energy Design Guide for Small-Medium Office Buildings	2019-06
SP 141	Design Guide for Low-to-Mid-Rise Multifamily Residential Buildings (1821-RP)	2020-03
SP 142	Smart Grid Application Guide	2020-01
SP 200	Advanced Indoor Air Quality Design Guide	2010-01
SP 300	User's Manual for ANSI/ASHRAE Standard 90.1-2016	2018-01
SP 300	User's Manual for ANSI/ASHRAE Standard 90.1-2019	2021-01
SP 301	User's Manual for ANSI/ASHRAE Standard 62.1-2016	2016-12
SP 301	User's Manual for ANSI/ASHRAE Standard 62.1-2019	2021-06
SP 302	User's Manual for ANSI/ASHRAE Standard 62.2-2016	2017-01
SP 302	User's Manual for ANSI/ASHRAE Standard 62.2-2019	2021-03
SP 303	User's Manual for ANSI/ASHRAE/IESNA Std 189.1-2014	2015-09
SP 304	User's Manual for ANSI/ASHRAE Standard 55	2016-06
SP 305	User's Manual for Standard 100-2018	Cancelled



Current Projects

- 1977-SP – Expand & Update HVAC Equipment Service Life Table (In Progress)
 - TC 2.8 and TC 7.3
- 1988-SP – Whole Life Carbon Gap Analysis (In Progress)
 - TC 2.8, TC 4.4, TC 4.7, TC 6.7, and TC 7.6
- 2025-SP – Whole Building MEP Benchmarking Data Research (Bids Received)
- 2026-SP – Whole Life Carbon Calculation Guide for Building Systems (Bids Received)
 - TC 2.8 and TC 7.6
- 2027-SP – Refrigerant Leakage Rate Emissions Tracking (Bids Received)



Questions?



Research Advisory Panel (RAP) Update - Summary

Feb 1, 2025

Research Advisory Panel (RAP) is Established



Riley Barta
Purdue University



Roland Charneux
Pageau Morel



Jon Douglas
Johnson Controls Int'l.



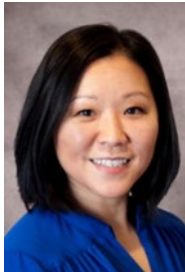
Stefan Elbel
TU Berlin



Chris Gray
EcoSmart Solution



Hyojin Kim
NJ Inst of Tech



Lisa Ng
NIST



**Chun-Cheng
Piao**
Daikin



Jin Wen
Drexel University



Chris Wilkins
RFS Engineering

10 Member Panel
Diverse Backgrounds



RAP Establishment and Duties

ASHRAE Research Strategic Plan:

The ASHRAE Research Strategic Plan is updated every eight years by the Research Advisory Panel...

*with **input solicited** from the TCs (and TGs, MTGs w/research authority, SSPCs, and other committees authorized to sponsor research projects), standing committees/councils and from individuals and organizations outside ASHRAE but with the same or related interests to ASHRAE.*



ASHRAE Research

- Current funding is **\$2M-\$3M per year**. Most projects have a value of \$100,000 - \$350,000.
- At any given time, **about 40-50 research projects** are being conducted in parallel.
- Technology transfer achieved through publications in ASHRAE Transactions, ASHRAE Handbooks, Science and Technology for the Built Environment, and research bulletins.
- **Largest program of fundamental and applied research supported by a technical society in world.**



Research Project Origination and Execution

- ASHRAE **Technical Committees (TCs)** play the lead role in most **research projects**.
- The TC Research Subcommittees originate and manage research projects based on the needs of their technical area of expertise.
- Projects must address a well-defined technical need and demonstrate value to ASHRAE and the industry.
- **Feedback from TCs is Critical to our effort!**



RAP Current Activities

- First Formal Meeting in Phoenix (June 2025)
- Initial focus is to develop and implement plan for “*soliciting input*” from within ASHRAE and beyond
 1. Engaging with TAC to solicit input from TCs
 2. Engaging with RAC to solicit input from Research Subcommittee Chairs (RSC)
 3. Forum being held as part of Las Vegas Winter Meeting

RAP Overall Goal

- Provide guidance to address the following:
 1. **Topics/Subjects**
 2. **Outcomes/Deliverables**
 3. **Engagement/Procedures**
- If we are successful, our recommendations will be implemented and will result in improvements to the ASHRAE Research program.



TC/TAC Input Opportunities

- A short questionnaire has been developed.
 - Ideas to increase interest of research in TCs.
 - How to improve Research turnout.
 - Why there is no research in some TC's ?
 - Do you ever use the ASHRAE Research Strategic Plan ?
 - What to put in the ARSP to make it a useful tool ?
- You can fill it right now, it takes only a couple of minutes



Possible Focus Groups

- RAP may arrange focus group(s) to allow further input from TCs. This idea is still being developed.
- If you have interest in participating, you can note this on the survey response.
- You can also reach out to either contract below if you have interest in the focus groups and/or have other ideas or comments you would like to share.

Roland Charneux rcharneux@pageaumorel.com

Steve Hammerling shammerling@ashrae.org







International Standards Arena

Mapping of ASHRAE Expertise and Content

ASHRAE Global Technical Interaction Committee Meeting

2026 ASHRAE Winter Conference – Las Vegas NV (USA)

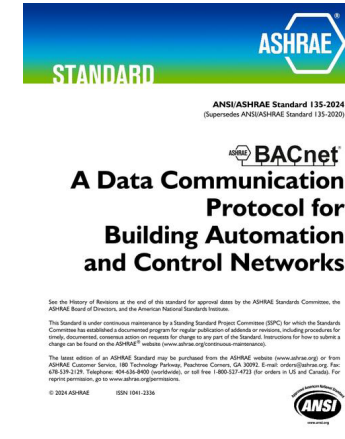
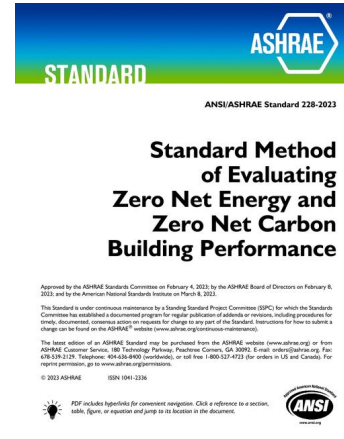
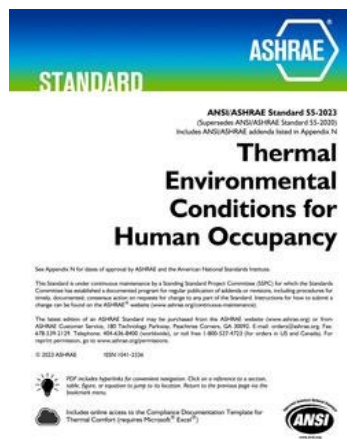
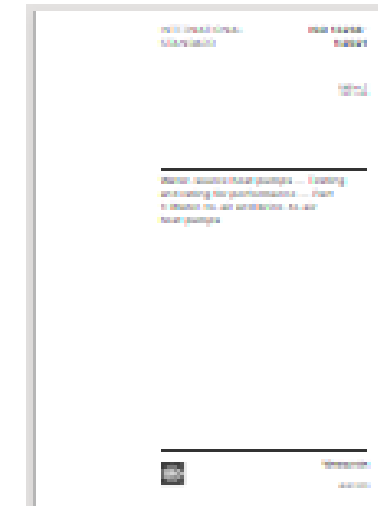
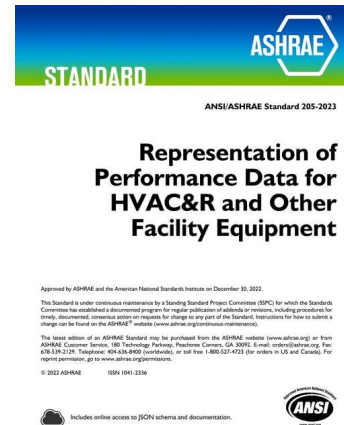
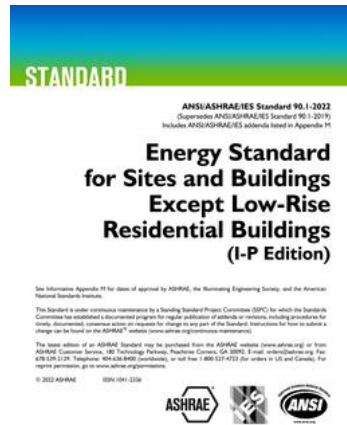
February 1, 2026

Presented by:

Stanley Yee

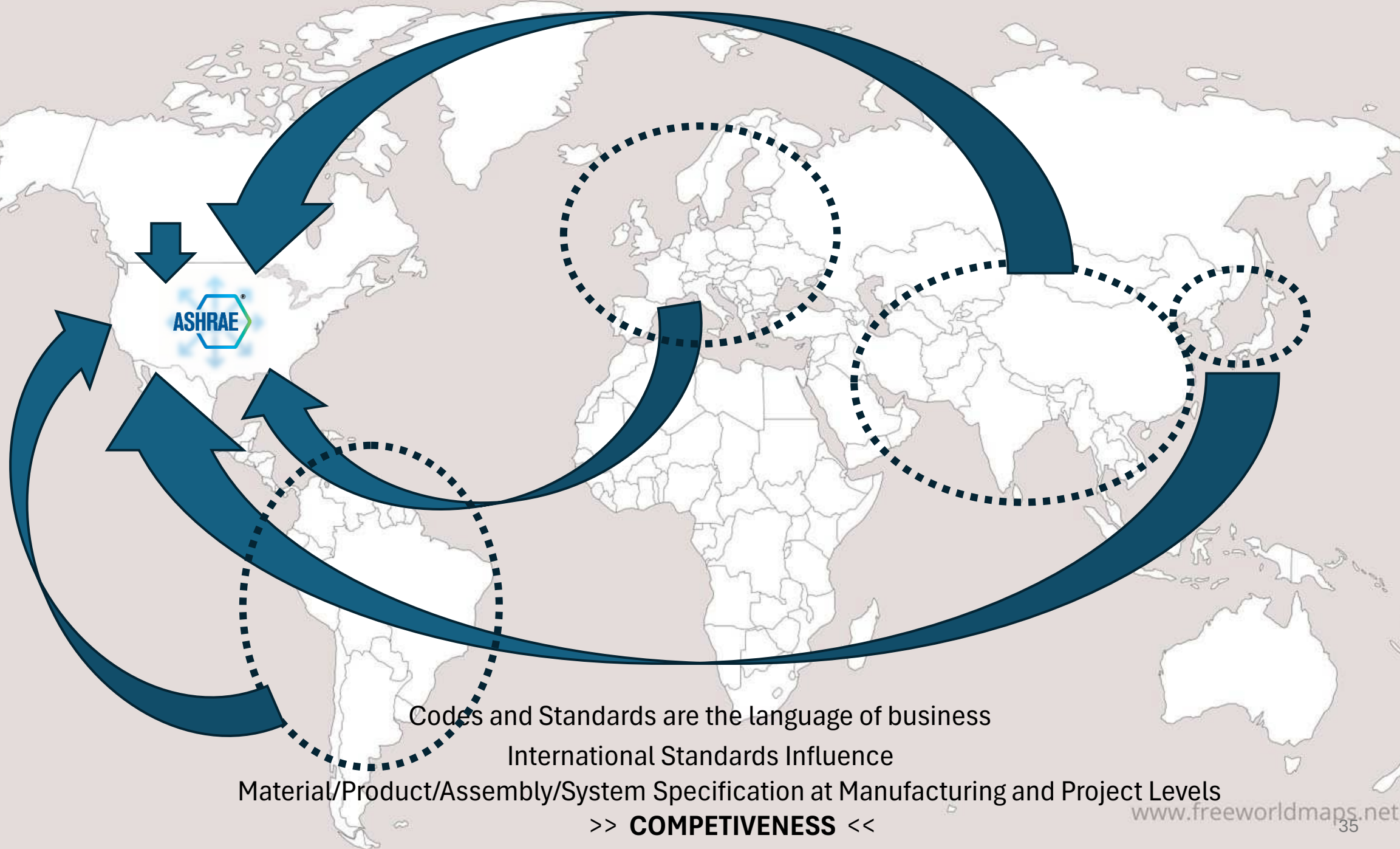
Vice-Chair USTAG to ISO/TC 163

ASHRAE • Well-established Leadership in Research and (Building) Science



Current challenge: Translating the leadership in more consistently and effectively into the International arena





Codes and Standards are the language of business

International Standards Influence

Material/Product/Assembly/System Specification at Manufacturing and Project Levels

>> **COMPETITIVENESS** <<

ASHRAE in the International Arena

US TAG Administrator to (5) ISO TCs:

- ISO/TC 86
- ISO/TC 205
- ISO/TC 163
- ISO/TC 59/SC 13
- ISO/TC 142

Chair and Secretariat to (2) ISO TCs:

- ISO/TC 86 (Committee Manger)
- ISO/TC 205 (Committee Manger)



ISO/TC Mapping with ASHRAE

US TAG Administrator to (5) ISO TCs:

- ISO/TC 86
- ISO/TC 205
- ISO/TC 163
- ISO/TC 59/SC 13*
- ISO/TC 142*

*Mapping forthcoming



ISO/TC 86

Refrigeration and air-conditioning

SC 1
Safety and environmental
requirements for refrigerating
systems

TC 8.11

TC 9.1

TC 10.1

ASHRAE 15
Safety Standard for Refrigeration
Systems

SC 4
Testing and rating of
refrigerant compressors

TC 8.1

TC 8.2

ASHRAE 30
Method of Testing Liquid Chillers

ASHRAE 23
Methods for Performance Testing
Positive Displacement Refrigerant
Compressors and Compressor Units

ASHRAE 225
Method for Performance Testing
Centrifugal Compressors and
Condensing Units

SC 6
Testing and rating of air-
conditioners and heat pumps

TC 1.1

TC 6.6

TC 4.7

TC 8.11

TC 5.5

ASHRAE/ISO/AHRI 13256-1&2
Water-to-Air (& Water) and Brine-to-
Air Heat Pumps — Testing and Rating
for Performance

ASHRAE 37
Methods of Testing for Rating
Electrically Driven Unitary Air-
Conditioning and Heat Pump
Equipment

ASHRAE 41 series

ASHRAE 84
Method of Testing Air-to-Air
Heat/Energy Exchangers

ASHRAE 118.1
Method of Testing for Rating
Commercial Gas, Electric and Oil
Service Water Heating Equipment

ASHRAE 205
Representation of Performance Data
for HVAC&R and Other Facility
Equipment

SC 7
Testing and rating of
commercial refrigerated
display cabinets

TC 10.7

ASHRAE 220P
Method of Testing for Rating Small
Commercial Blast Chillers, Chiller-
Freezers, and Freezers

ASHRAE 72
Testing Refrigerators And Freezers

SC 8
Refrigerants and refrigeration
lubricants

TC 3.1

ASHRAE 34
Designation and Safety Classification
of Refrigerants

SC 9
Testing and Rating of
Refrigerating Core
Components

Key

ISO TC 86 Sub-committee

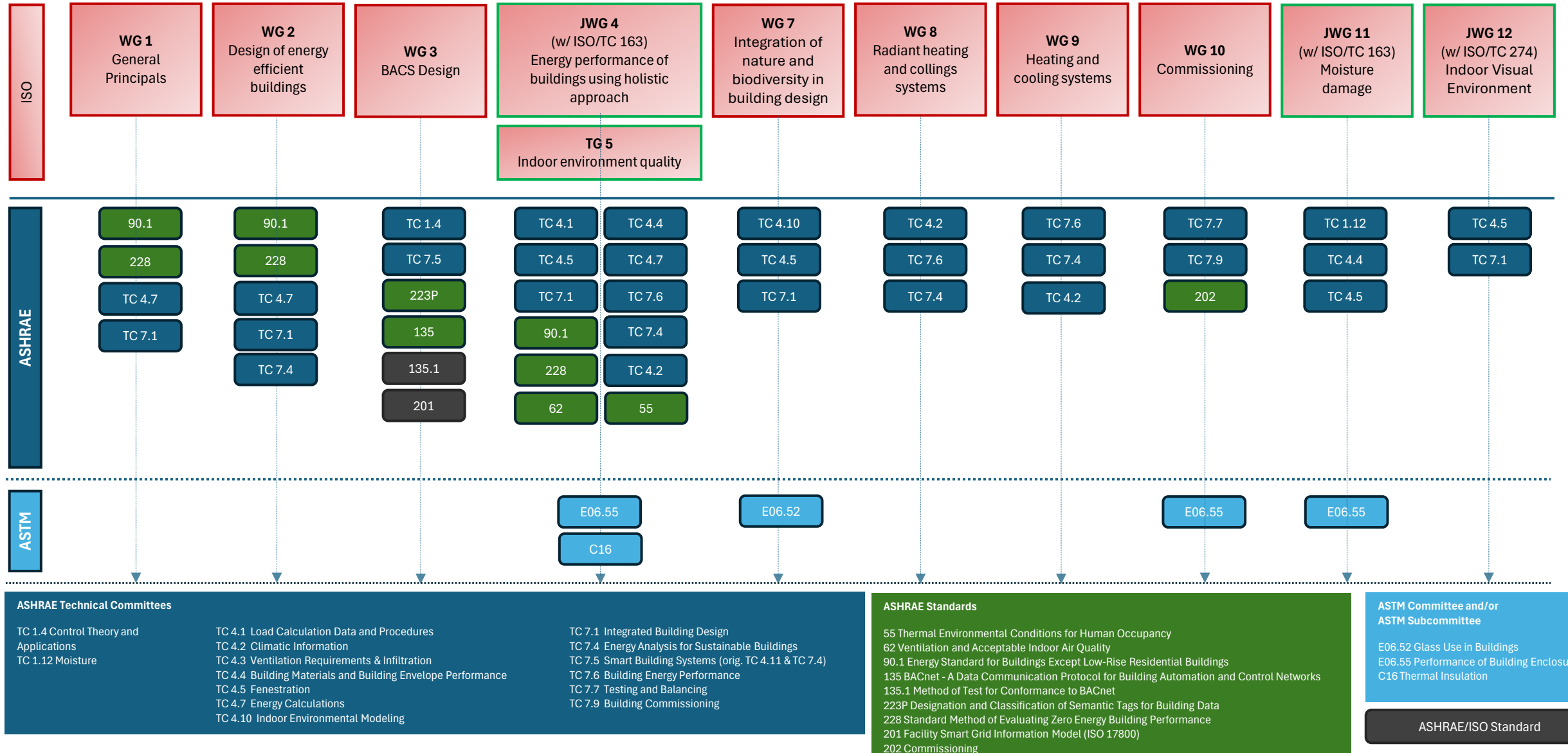
ASHRAE Technical Committees
TC 1.1 Thermodynamics and
Psychometrics
TC 3.1 Refrigerants and Secondary
Coolants
TC 4.7 Building Energy Modeling
TC 5.5 Air-to-Air Energy Recovery
TC 6.6 Service Water Heating Systems
TC 8.1 Compressor Technology
TC 8.2 Vapor Compression Cooling
and Heat Pump Chillers
TC 8.11 Unitary and Room air
Conditioners & Heat Pumps
TC 9.1 Large Building Air-Conditioning
Systems
TC 10.1 Custom Engineered
Refrigeration Systems

ASHRAE/ISO Standard

ASHRAE Standard

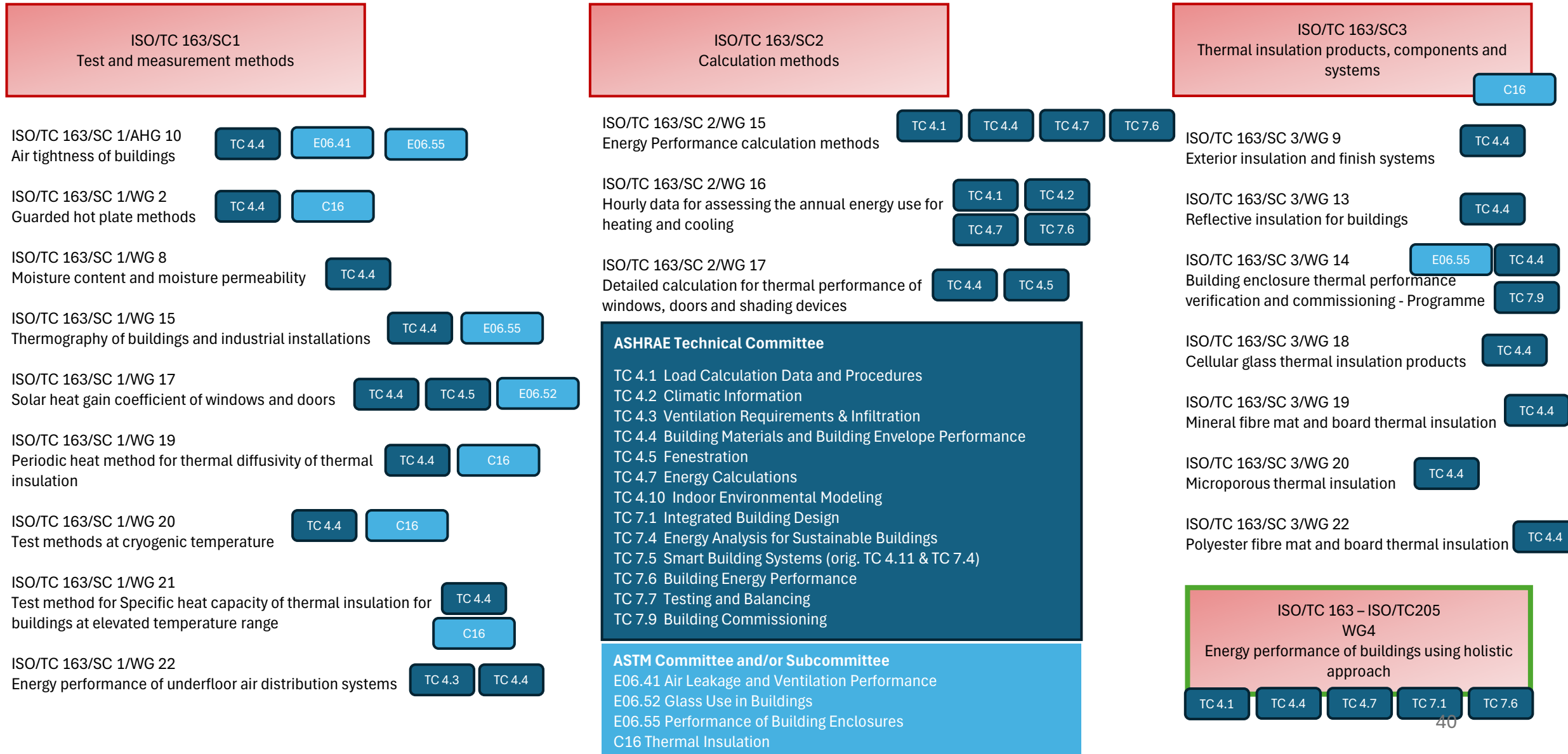
ISO/TC 205

Building environment design



ISO/TC 163

Thermal performance and energy use in the built environment



Call to Action

ASHRAE has a role – and a need – to be involved and engaged in the development of International Standards.

- Before it becomes too late...

GTIC calls on your support and involvement

- Continue ASHRAE's technical leadership in the 'language of business'
- Come forward with your suggestions and engagement through GTIC



Questions?

Contact ► Technical Activities Committee (TAC)

Prepared by:

Stanley Yee

Vice-Chair USTAG to ISO/TC 163

stanleyy@infiniterecycledtech.com

THANK YOU!

Conferences & Expositions Committee (CEC)



2026 Winter Program Statistics

Program	Proposals Submitted	Proposals Scheduled
Panel Sessions	19	6
Forum Sessions	9	6
Seminar Sessions	131	65
Workshop Sessions	7	4
Debate Sessions	9	4
<u>Total</u>	175	85
<u>Total with Paper Sessions</u>		121



2026 Annual Meeting - Austin— June 27 – July 1, 2026

Conference Chair : Cindy Calloway(cindy.callaway@p2sinc.com)

Fundamentals and Applications

- Track Chair: Mikeal Salonvaara | salonvaaramh@ornl.gov

HVAC&R Systems and Equipment

- Track Chair: Atilla Biyikoglu | abiyik@gazi.edu.tr

Research Summit

- Track Chair: Craig Bradshaw | crbrad@illinois.edu

Workforce Development

- Track Chair: Mike Bilderbeck | mbilderbeck@pickeringfirm.com

Ground Source Heat Pumps

- Track Chair: Ahmed Elatar | elataraf@ornl.gov

Hot Climate Building System Design, Operation and Resilience

- Track Chair: Jie Cai | cai40@purdue.edu

AI in Building Design and Construction

- Track Chair: Jeslu Jacob | jesluceline@gmail.com

Building Decarbonization

- Track Chair: Raul Simonetti | raul.simonetti@carel.com



Key Dates – Austin

Wednesday, Jan. 7, 2026 | Website Opens for Extended Abstracts and Seminar, Workshop, Forum, Debate, and Panel Proposals

Wednesday, Feb 25, 2026 | Debate, Panel, Seminar, Forum, Workshop, and Debate Proposals Due

Wednesday, Feb 25, 2026 | Conference Papers Due

Wednesday, March 25, 2026 | Conference Paper Accept/Revise/Reject Notifications

Thursday, April 2, 2026 | Debate, Panel, Seminar, Forum, Workshop Scheduling Notifications

Wednesday, April 8, 2025 | Revised Conference Papers Due

Wednesday, April 22, 2025 | Conference Paper Final Accept/Reject Notifications



2027 Winter Meeting – Chicago – Jan 23-27, 2027

Conference Chair : Li Song (lsong@ou.edu)

Tentative Topics:

Fundamentals and Applications

HVAC&R Systems and Equipment

Research Summit

Refrigeration and Refrigerants

Residential HVAC Research

Thermal Network Systems

Nexus of Real and Artificial Intelligence Decarbonization

Retrofits



Upcoming Conferences

2026 Women in ASHRAE Leadership Symposium

- August 13-14, 2026 – Los Angeles, CA

Fourth ASHRAE Developing Economies Conference

- April 24-25, 2026 – Varanasi (Kashi), Uttar Pradesh

2026 ASHRAE Building Decarbonization Conference

- September 23-25, 2026 – Seattle, WA

Ninth International Conference on Energy Research and Development (ICERD – 9)

- November 16-18, 2026 – Kuwait University City, Kuwait

The Seventh International Conference on Efficient Building Design

- October 8 – 9, 2026 – Beirut, Lebanon



TC Program Chair Training

Tuesday, Feb. 3, 11:15 – 12:00
Salerno (P)



Questions?

Kristen Cetin, Chair CEC, 25-26

cetinkri@msu.edu

Suzanne LeViseur, Vice Chair CEC, 25-26

Suzanne.LeViseur@rsandh.com





Overview of Government Affairs Activities

For TC/TG Chairs Breakfast Meeting – Winter 2026 – Las Vegas

Alice Yates

Director of Government Affairs

February 1, 2026

Government Affairs Staff: Who Are We?

We have a team that is ready to support you!

Contact all of us at GovAffairs@ashrae.org



Alice Yates
Director



Jacob Karson
Advocacy & Outreach



Emily Porcari
State & Local



Bryce Causey
Federal



Neil Gavigan
Policy Analyst

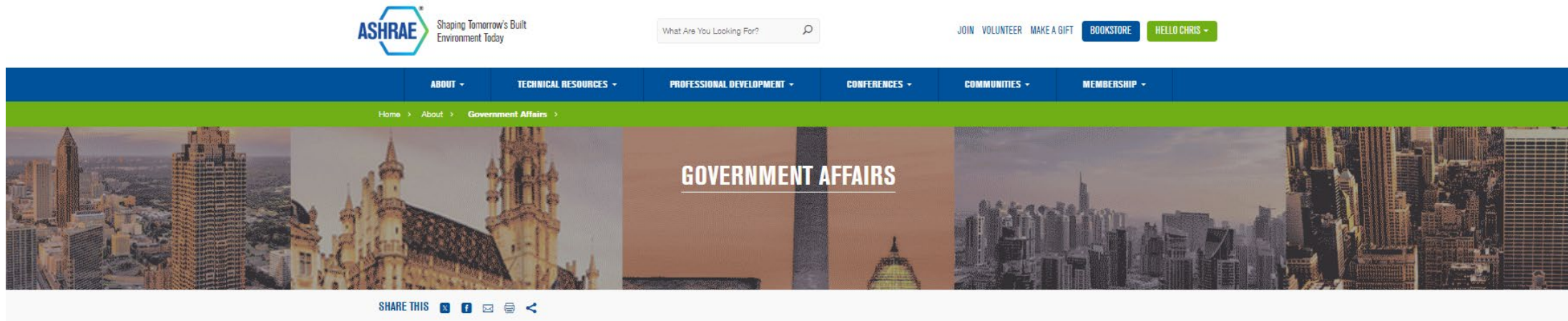


Chris Miller
Office Manager



ASHRAE Government Affairs Website: a Multitude of Resources and Information

<https://www.ashrae.org/about/government-affairs>



Member Resources: Advocacy Toolkit

Find out how to get involved in communicating with elected officials and policy makers, including through the Government Affairs Committee and Government Outreach Days.

LEARN MORE



Policy Positions and Issues

ASHRAE Government Affairs staff regularly tracks activities within Congress, and Federal, State and Provincial legislative bodies. Access Position Documents, issue briefs, letters, and testimony on key policy areas of interest to ASHRAE.

LEARN MORE



Government Affairs Update

Stay Updated

This bi-weekly newsletter is the best way to keep up with news and notes on recent government activities in Washington, D.C. of interest to ASHRAE members and others. Keep connected to federal and state activities.

GET THE LATEST

What Staff Have Been Assigned To Do

ASHRAE Government Affairs Mission Statement:

- *To establish ASHRAE as a **leading source for expertise** in the built environment and a resource for policy-makers in the development of legislation and regulations affecting the public, the HVAC&R community, and the engineering profession.*
- To this end the ASHRAE Washington D.C. office will:
 - Build relationships between the Society and all levels of government in the United States and with the appropriate international community representatives.
 - Facilitate the transfer of **technical counsel** and assistance on matters affecting the public, engineering profession and ASHRAE professional community.
 - Collect, digest and disseminate to members and staff relevant information regarding current or anticipated government actions.
 - Pursue **technology transfer** and government funding opportunities independently or jointly with other appropriate organizations.



Key Areas of Focus for Government Affairs Staff

- Bi-Weekly Government Affairs Updates
- Support and planning for Government Outreach Events
 - Tremendous Growth: **186 GOEs** in SY24-25



Public Law 110-140
110th Congress

An Act

To move the United States toward greater energy independence and security, to increase the production of clean renewable fuels, to protect consumers, to increase the efficiency of products, buildings, and vehicles, to promote research on and deploy greenhouse gas capture and storage options, and to improve the energy performance of the Federal Government, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

SECTION 1. SHORT TITLE; TABLE OF CONTENTS.

(a) SHORT TITLE.—This Act may be cited as the “Energy Independence and Security Act of 2007”.

(b) TABLE OF CONTENTS.—The table of contents of this Act is as follows:

Sec. 1. Short title; table of contents.
Sec. 2. Definitions.
Sec. 3. Relationship to other law.

TITLE I—ENERGY SECURITY THROUGH IMPROVED VEHICLE FUEL ECONOMY

Subtitle A—Increased Corporate Average Fuel Economy Standards

Sec. 101. Short title.
Sec. 102. Average fuel economy standards for automobiles and certain other vehicles.
Sec. 103. Definitions.
Sec. 104. Credit trading program.
Sec. 105. Consumer information.
Sec. 106. Continued applicability of existing standards.
Sec. 107. National Academy of Sciences studies.
Sec. 108. National Academy of Sciences study of medium-duty and heavy-duty truck fuel economy.
Sec. 109. Extension of flexible fuel vehicle credit program.
Sec. 110. Periodic review of accuracy of fuel economy labeling procedures.
Sec. 111. Consumer tire information.
Sec. 112. Use of civil penalties for research and development.
Sec. 113. Exemption from separate calculation requirement.

Subtitle B—Improved Vehicle Technology

Sec. 131. Transportation electrification.
Sec. 132. Domestic manufacturing conversion grant program.
Sec. 133. Inclusion of electric drive in Energy Policy Act of 1992.
Sec. 134. Loan guarantees for fuel-efficient automobile parts manufacturers.
Sec. 135. Advanced battery loan guarantee program.
Sec. 136. Advanced technology vehicles manufacturing incentive program.

Dec. 19, 2007
[H.R. 6]

Energy Independence and Security Act of 2007
42 USC 17001 note.

- Tracking legislation and regulations, drafting letters and testimony, connecting members with agencies and elected officials, strengthening relationships with aligned organizations
- Supporting webinars, briefings, and hearings for policy makers
- GAC Staff Support –PPIB updates– **thanks** for your input!



Congressional Briefing on Data Centers – Dec. 2025

**SSPC 90.4
Chair Marcus
Hassen
presented
Standard 90.4
and the
resources of
TC 9.9**



IEQ Technical Support

- National Academies Health in Buildings Roundtable
- Consultation with Belgium Government to assist with implementation of their IAQ law
- Technical legislative drafting assistance to support:
 - Bipartisan federal legislation (Tonko-Fitzpatrick)
 - Michigan IAQ legislation
 - Rhode Island IAQ Legislation
- Technical support for EPCA Modernization
 - Thanks to SSPC 90.1 Chairs (current and past)





Recent Letters and Testimony

Letters and Testimony

Proclamations and Resolutions

2026

-  1-26-2026 - [Letter Opposing Florida HB 607 re: Eliminating the Florida Board of Professional Engineers](#)
 -  1-26-2026 - [Letter Supporting Florida SB 992 "Resilient Buildings"](#)
 -  1-26-2026 - [Letter supporting New Hampshire HB 1180, "Updating the definition of the state building code to include the International Energy Conservation Code 2024."](#)
 -  1-20-2026 - [Letter Opposing Missouri HB 2384, Statewide Energy Code Rollback](#)
 -  1-16-2026 - [Letter Supporting Nebraska LB 800, "Adopt updates to building and energy codes"](#)
 -  1-16-2026 - [Letter on Washington State HB 2273, Reducing Embodied Carbon in Buildings and Construction Materials](#)
 -  1-5-2026 - [Letter to New York City Department of Buildings re: Proposed Refrigeration Rules](#)
 -  1-5-2026 - [Response to Texas State Energy Conservation Office RFI re: High-Performance Buildings](#)
-



State and Local Outlook

2026 State Legislative Sessions:

- Legislative session currently in progress in **40** states; **46** states and D.C. will be in session in 2026
- Approximately **3,000** bills reviewed by staff this session to date
- **129** of those bills flagged as relevant to ASHRAE
- Letters sent on **10** pieces of legislation in **8** different states



State and Local Outlook: Key Issues

- Building energy code updates and code rollbacks or freezes—multiple attempts continuing from last session
- Improving indoor air quality in schools, and setting maximum temperature limits to mitigate heat impacts
- Legionnaires' Disease prevention after summer 2025 major outbreak in NYC
- Engineering licensure, training and HVAC workforce
- Electrification and decarbonization efforts vs. bans on all-electric requirements



Areas of Focus for the U.S. Congress

- Appropriations: Jan. 30 end of CR for FY26; Spring/Summer focus: FY27
 - ENERGY STAR \$33M
 - Building Technology Office \$288M
 - NIST \$1.85B
- EPCA Reform / Modernization
 - House – 2025 [Energy Choice Act]
 - Senate – Spring 2026

House activity on energy efficiency–related bills / Federal Preemption

- Energy Choice Act

Pro Codes Legislation (protection of SDO's copyright)

- Updated to improve implementation



Executive Branch Outlook

DOE

- Office of Critical Minerals and Energy Innovation (CMEI)
- 90.1-2025 Determination under ECPA
- Uncertainty around Grant Cancellations
- Data Center Opportunities
 - AI data center instructions on DOE National Labs site
 - 90.4 Inclusion

EPA

- Reconsideration of AIM Act Regulations
- Indoor Air Quality Programs at Office of Air and Radiation





OUTLOOK and OPPORTUNITIES

Buildings continue to be on the policy and legislative agenda:

- To meet climate and carbon goals
- To provide healthy and safe places to live, work and learn
- To bring resilience to communities

➔ **ASHRAE resources and technical expertise continue to be in demand!**



Stay Informed: Government Affairs Updates



Welcome to ASHRAE's Government Affairs Update! This bi-weekly publication features information on government affairs-related activities of interest to ASHRAE members and others interested in the built environment. [Archives of previous updates](#) are available from the ASHRAE Government Affairs Updates webpage.

This information may be shared with interested colleagues who may subscribe from the ASHRAE Government Affairs Updates webpage [by clicking here](#).

- [Government Outreach](#)
- [Global Government Affairs](#)
- [U.S. Congressional Activities](#)
- [Federal Government Affairs](#)
- [State and Local Government Affairs](#)
- [Other Events and News](#)

Government Outreach

2,500
subscribers

451
Articles this Fiscal Year

Distributed to
subscribers bi-weekly

Subscribe and read the latest at
www.ashrae.org/government-affairs



Questions?

ayates@ashrae.org

GovAffairs@ashrae.org

FG REMINDERS & ROSTER UPDATES



Jason Atkisson
TAC – Training Coordinator



REMINDERS

Activity Forms

- Complete & Send to Section Head by 7pm on Tuesday

Standards

- Review any standards in which the FG is responsible for
- Vote – Reaffirm, Update, Remove

FG Status

- Chairs are encouraged to evaluate their progress in accomplishing their purpose for which they were formed

FG Reference Manual



HOW TO GET ACCESS?

TC Chairs

- Refer to email sent from Tara Thomas (ttomas@ashrae.org)
 - Sent to TC Chair alias + email on file with ASHRAE
- If you did not receive the email, please request access by emailing your Section Head (sh#@ashrae.net) and Tara Thomas

<https://tcroster.ashrae.org/rosterUpdate?cmtKey=6160cde-e-aac9-4052-8fd0-9782949100ab&fiscalYear=2026-2027>



2026-2027 PROPOSED ROSTER UPDATE FORM TC01.12 - MOISTURE MANAGEMENT IN BUILDINGS

[Instructions](#)

NOTE: Once SUBMIT FINAL is clicked, your roster can no longer be edited.

[Save](#)[SUBMIT TO SECTION HEAD](#)[View Roster](#)

TECHNICAL COMMITTEE MANAGEMENT TEAM

Note: This section is mandatory

Position	Name	ASHRAE No.	Appointed Year	End Year	Term Years	Voting Start	Continuing from Current Year? (Y/N)
Chair	Erika Bonfanti	8308217	07/01/25	06/30/27	2	07/01/20 (2 Yrs.)	Yes
Vice Chair	Wahid Maref	7988286	07/01/25	06/30/29	4	07/01/24 (4 Yrs.)	Yes
Secretary	David Baird	8059867	07/01/25		2		Yes
Standards Subcommittee Chair	Craig Marden	8376820	07/01/25	06/30/28	3	07/01/24 (3 Yrs.)	Yes
Program Subcommittee Chair	David Finley	8303102	07/01/25	06/30/29	4	07/01/20 (4 Yrs.)	Yes
Research Subcommittee Chair	Mehdi Ghobadi	8368788	07/01/25	06/30/28	3	07/01/24 (3 Yrs.)	Yes
Handbook Subcommittee Chair	B Simon Pallin	8286004	07/01/24		3	07/01/20	Yes
Webmaster	Neil Freidberg	8376831	07/01/25	06/30/28	3	07/01/24 (3 Yrs.)	Yes

Don't
Forget to
SAVE!



INSTRUCTIONS PAGE – TC MANAGEMENT TEAM

TC/TG/TRG CHAIRS

TC Roster Update Form is designed to give you all the information needed to produce a desired draft roster for the upcoming Society year. Changes to your roster will go into effect on July 1st. Here's what you need to know:

Section 1: Technical Committee Management Team (Mandatory Positions)

This section will assist you with developing your committee management and subcommittee chair's section.

The TC Chair should have served at least one one-year term as Vice Chair or Secretary. The Chair of a TC/TG/TRG will be expected to serve two (2) consecutive one-year term. TAC may grant a one-year extension with the written request of the chair approved by the Section Head, but no more than three (3) consecutive terms as Chair. The Chair's term is not limited by the policy limiting normal Member and Non-Quorum Member reappointments to four (4) consecutive terms.

Vice Chair must be prepared to train and to serve as Chair following his/her term. A Chair's training breakfast is provided during the Winter and Annual meeting. The Chair and Vice Chair MUST BE ASHRAE MEMBERS! Corresponding Members can serve in all TC management positions except Chair.

1. The form is populated to list members in their current positions. If those members will continue to serve in their current position, select "yes". However, if you would like to appoint someone else to serve in a mandatory position, select "no". Once you have selected "no" you will be prompted to enter their replacement (name and ASHRAE number). The details will automatically populate as you enter the individual's name.
2. An individual is not required to be a voting member to serve on a subcommittee or mandatory position.
3. You will not be able to move forward with submitting the roster if a mandatory position is left blank or the membership information is incomplete.

Section 2: Additional Placement

This section allows you to list individuals in positions that are not mandatory. Common additional positions are Member Non-Quorum and ALI Coordinator. A maximum of 2 Non-Quorum (voting) members may be appointed each year. You may also list any special subcommittee chair in this section.

Section 3: Proposed Membership List and Status

This section should be used to revise voting and nonvoting statuses. Please determine which members of the committee should move voting status. A minimum of six (6) and a maximum of eighteen (18) voting members are allowed in a given Society year. This does not include Non-Quorum Members who are also eligible to vote.

Provisional Members act as Corresponding members, but only serve 2-year terms. Now is the time to review the list of Provisional Corresponding Members and decide if they should be added as voting, corresponding members or be deleted from your roster. If there are no changes, after 2 years, they will drop from the roster automatically.

Save and Submit

You should save your form as you make updates. You can make as many changes to the form as needed, until you submit it. Once you have submitted the form, you can no longer make changes. Any changes after you have submitted the form will need to be discussed and submitted to your Section Head.



TC MANAGEMENT TEAM

TECHNICAL COMMITTEE MANAGEMENT TEAM

Note: This section is mandatory

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Secretary	David Baird	8059867	07/01/25		2		Yes
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Research Subcommittee Chair	Mehdi Ghobadi	8368788	07/01/25	06/30/28	3	07/01/24 (3 Yrs.)	Yes
Handbook Subcommittee Chair	B Simon Pallin	8286004	07/01/24		3	07/01/20	Yes
Webmaster	Neil Freidberg	8376831	07/01/25	06/30/28	3	07/01/24 (3 Yrs.)	Yes

Required Positions



TC MANAGEMENT TEAM

TECHNICAL COMMITTEE MANAGEMENT TEAM

Note: This section is mandatory

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Chair	Erika Bonfanti	8308217	07/01/25	06/30/27	2	07/01/20 (2 Yrs.)	No

Proposed: (Mandatory Field) Must be ASHRAE Member (May serve 2 or 3 years - Note if applying for 3rd)

Name:

ASHRAE No.:

Vice Chair	Wahid Meref	7988286	07/01/25	06/30/29	4	07/01/24 (4 Yrs.)	Yes
Secretary	David Baird	8059867	07/01/25		2		Yes
Standards Subcommittee Chair	Craig Marden	8376820	07/01/25	06/30/28	3	07/01/24 (3 Yrs.)	Yes
Program Subcommittee Chair	David Finley	8303102	07/01/25	06/30/29	4	07/01/20 (4 Yrs.)	Yes
Research Subcommittee Chair	Mehdi Ghobadi	8368788	07/01/25	06/30/28	3	07/01/24 (3 Yrs.)	Yes



INSTRUCTIONS PAGE – ADDITIONAL PLACEMENT

TC/TG/TRG CHAIRS

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ADDITIONAL POSITIONS

Additional Positions or Sub Committee Chairs

Type	Sub Committee or Position	Name	ASHRAE No.
ALI Coordinator	ALI Coordinator	Search for Member Name	Enter Number
Member Non Quorum	Member Non Quorum	Search for Member Name	Enter Number
Subcommittee Chair	YEA	David David Baird - 8059867 David Finley - 8303102	Enter Number This field is required.
Choose One			Enter Number
Choose One		Search for Member Name	Enter Number
Choose One		Search for Member Name	Enter Number

Additional Comments/Notes:



PROPOSED MEMBERSHIP

TC/TG/TRG CHAIRS

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PROPOSED MEMBERSHIP LIST + STATUS

Proposed Membership List and Status

Use the Status Code column for position changes.

Please direct individuals interested in joining the committee for the first time to www.ashrae.org/joinatc.

Status Code Legend:

AV = Add Voting | **AC** = Add Corresponding | **DV** = Delete Voting (Will be moved to corresponding) | **D** = Delete (Will be deleted from the roster) | **NC** = No Change

ASHRAE No.	Name	Employer	Voting Status	Appointed Year	End Year	Position	New Position	New End Year	Status Code (Required)
8308217	Erika Bonfanti	Acton Partners, LLC	Voting (2 Yrs.) 07/01/20	07/01/25	06/30/27	Chair (2 Yrs.)	Chair		NC
7988286	Wahid Maref	Ecole de Technologie Superieure (ETS)	Voting (4 Yrs.) 07/01/24	07/01/25	06/30/29	Vice Chair (4 Yrs.)	Vice Chair		NC DV
8059867	David Baird	DriSteem Corporation	Non-voting	07/01/25		Secretary (2 Yrs.)	Secretary		NC
8225389	Danko Davidovic	Huber Engineered Woods LLC	Voting (1 Yrs.) 07/01/22	07/01/25	06/30/26	Handbook Subcommittee Chair (1 Yrs.)			NC
8303102	David Finley	Finley Consulting Group, LLC	Voting (4 Yrs.) 07/01/20	07/01/25	06/30/29	Program Subcommittee Chair (4 Yrs.)	Program Subcom Chair		NC
8368788	Mehdi Ghobadi	NRC	Voting (3 Yrs.) 07/01/24	07/01/25	06/30/28	Research Subcommittee Chair (3 Yrs.)	Resrch Subcom Chair		NC
8376820	Craig Marden	Owens Corning	Voting (3 Yrs.)	07/01/25	06/30/28	Standards	Stds		NC

AV = Add Voting

DV = Delete Voting

AV = Add Voting

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VIEW ROSTER

Instructions

NOTE: Once SUBMIT FINAL is clicked, your roster can no longer be edited.

Save

SUBMIT TO SECTION HEAD

View Roster

2026-2027 PROPOSED ROSTER TC01.12 - MOISTURE MANAGEMENT IN BUILDINGS

Copy Url

Download CSV

Opens in a new window

FUTURE ROSTER

Position	Print on Roster	Name	ASHRAE No.	Appointed Year	End Year	Term Years	Voting Status
Chair	Chair	Erika Bonfanti	8308217	07/01/25	06/30/27	2	Voting (2 Yrs.)
Vice Chair	Vice Chair	Wahid Maref	7988286	07/01/25	06/30/29	4	Voting (4 Yrs.)
Secretary	Secretary	David Baird	8059867	07/01/25		2	Non-voting
Handbook Subcommittee Chair	Hndbk Subcom Chair	B Simon Pallin	8286004	07/01/24		3	Non-voting
Program Subcommittee Chair	Program Subcom Chair	David Finley	8303102	07/01/25	06/30/29	4	Voting (4 Yrs.)
Research Subcommittee Chair	Resrch Subcom Chair	Mehdi Ghobadi	8368788	07/01/25	06/30/28	3	Voting (3 Yrs.)
Standards Subcommittee Chair	Stds Subcom Chair	Craig Marden	8376820	07/01/25	06/30/28	3	Voting (3 Yrs.)



INSTRUCTIONS – SAVE AND SUBMIT

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1. The form is populated to list members in their current positions. If those members will continue to serve in their current position, select "yes". However, if you would like to appoint someone else to serve in a mandatory position, select "no". Once you have selected "no" you will be prompted to enter their replacement (name and ASHRAE number). The details will automatically populate as you enter the individual's name.
2. An individual is not required to be a voting member to serve on a subcommittee or mandatory position.
3. You will not be able to move forward with submitting the roster if a mandatory position is left blank or the membership information is incomplete.

Section 2: Additional Placement

This section allows you to list individuals in positions that are not mandatory. Common additional positions are Member Non-Quorum and ALI Coordinator. A maximum of 2 Non-Quorum (voting) members may be appointed each year. You may also list any special subcommittee chair in this section.

Section 3: Proposed Membership List and Status

This section should be used to revise voting and nonvoting statuses. Please determine which members of the committee should move voting status. A minimum of six (6) and a maximum of eighteen (18) voting members are allowed in a given Society year. This does not include Non-Quorum Members who are also eligible to vote.

Provisional Members act as Corresponding members, but only serve 2-year terms. Now is the time to review the list of Provisional Corresponding Members and decide if they should be added as voting, corresponding members or be deleted from your roster. If there are no changes, after 2 years, they will drop from the roster automatically.

Save and Submit

You should save your form as you make updates. You can make as many changes to the form as needed, until you submit it. Once you have submitted the form, you can no longer make changes. Any changes after you have submitted the form will need to be discussed and submitted to your Section Head.



2026-2027 PROPOSED ROSTER UPDATE FORM
TC01.12 - MOISTURE MANAGEMENT IN BUILDINGS

Instructions

NOTE: Once SUBMIT FINAL is clicked, your roster can no longer be edited.

Save

SUBMIT TO SECTION HEAD

View Roster

TECHNICAL COMMITTEE MANAGEMENT TEAM

Note: This section is mandatory

Position	Name	ASHRAE No.	Appointed Year	End Year	Term Years	Voting Start	Continuing from Current Year? (Y/N)
Chair	Erika Bonfanti	8308217	07/01/25	06/30/27	2	07/01/20 (2 Yrs.)	Yes
Vice Chair	Wahid Maref	7988286	07/01/25	06/30/29	4	07/01/24 (4 Yrs.)	Yes
Secretary	David Baird	8059867	07/01/25		2		Yes
Standards Subcommittee Chair	Craig Marden	8376820	07/01/25	06/30/28	3	07/01/24 (3 Yrs.)	Yes



TECHNICAL COMMITTEE MEETING CHANGES

- **Main Committee Meetings (TC, TRG, TG, MTG):**
 - For hybrid meetings, committee must provide their own meeting link.
 - A USB plug-in speaker/microphone is available upon request but is only suitable in smaller rooms
- **Subcommittee Meetings**
 - Subcommittees meeting in advance virtually should meet before Jan. 30th and provide own link to be listed in the conference schedule.
 - TC subcommittees strongly encouraged to meet virtually in advance of the Conference. Space may not be available in Las Vegas
 - Hybrid subcommittee meetings will not be approved for the Winter Conference.
 - **Following the 2026 Winter Conference, TC, TRG, TG, MTG subcommittees will not be permitted to request an in-person meeting space at conferences**



TECHNICAL COMMITTEE MEETING CHANGES

- Reasons prompting changes from ASHRAE Meetings Department included:
 - cost of meetings exorbitant,
 - space needs limit options in hotel/city locations,
 - limited meeting room availability,
 - quality of hybrid meetings is limited
 - decline of in-person meeting attendance with proliferation of hybrid meetings
 - committee meeting time requirements restricting members from participating in other events (technical program, Expo, social events, other meetings, etc.),
- TAC and ASHRAE Meetings dept. would like to hear about your Winter Meeting experiences and your feedback with these changes. Please communicate with your Section Head or Staff at shammerling@ashrae.org





Questions?



TC Chair's Breakfast Meeting

Research Administration Committee Update

February 2, 2026

Jin Wen, RAC Chair

Outline

- RAC Objectives and Membership
- ASHRAE Strategic Plan and Research Advisory Panel
- Research Promotion
- Budget Update and Proposal Activity
- Research Manual Update
- ASHRAE Research Portal Update
- Awards
- Summary



RAC Objectives

- Plan and coordinate research and technical studies in support of the ASHRAE Research Strategic Plan and provide for the dissemination of the results
- Coordinate other activities to promote HVAC&R research
- Strategically and ethically administer the Research Fund for the benefit of all ASHRAE members



RAC Membership for SY 25-26

Leadership	Research Liaisons	
Chair: Jin Wen	Section 1: Srinivas Katipamula	Section 6: Matt Mullen
Vice-Chair: Roland Charneux	Section 2: Brian Fricke	Section 7: A. Chad Kirkwood
RPS Chair: Christopher Gray	Section 3: Zheng O'Neill	Section 8: Carl Huber
RAS Chair: Dennis Landsberg	Section 4: Davide Ziviani	Section 9: Conor Murray
	Section 5: Douglas Scott	Section 10: WenBin Ng

Did You Know??



- ASHRAE currently has 46 active research projects.
- Since 1959, ASHRAE has sponsored over 975 projects for a total cost of about \$87.3M
- ASHRAE members have **FREE** access to **ALL** research project final reports
- ASHRAE provides its members with **FREE** digital downloads of all four Handbooks, which are the largest beneficiaries of ASHRAE research results.
- All this is on [ASHRAE.org](https://www.ashrae.org), just click on RESEARCH
- ASHRAE also provides other forms of research grants and awards such as [Graduate Student Grant-in-Aid award](#); [New Investigator Award](#); [Innovative Research Grant](#), etc.



2025–2028 ASHRAE Strategic Plan

STRATEGIC GOALS

1

Position ASHRAE as the **global leader** in advanced solutions to improve indoor environmental quality (IEQ) and address climate change.

2

Pursue **impact-focused engagement** by targeting stakeholders to support a strong workforce and maximize utilization, adherence, and trust of ASHRAE's global expert resources.

3

Increase the **accessibility** of ASHRAE content, resources, and member opportunities.

OBJECTIVES

- a. Lead the development of widely adopted standards to support indoor environmental quality, decarbonization, and resilience.
- b. Develop alliances and diverse working groups that position ASHRAE to lead and collaborate globally in identifying challenges, defining solutions, and developing approaches to address them.
- c. Develop resources based on member needs and industry trends.

- a. Tailor and target engagement and resources to ASHRAE members and defined key stakeholders.
- b. Provide guidance to targeted stakeholders on impactful ways to maximize the positive downstream effect of their engagement on the built environment.
- c. Empower professionals in their journey to maximize industry impact in support of ASHRAE's mission and vision.
- d. Pursue partnerships to amplify the impact of ASHRAE's mission and support the HVAC&R and built environment workforce.

- a. Identify and address structural, content, and financial barriers to access.
- b. Align communication and delivery methods and formats to enhance accessibility and effectiveness of content, resources, and volunteer opportunities.
- c. Strengthen communication channels with and through chapters and regions to empower contribution to the Society as thought partners in adapting resources to local context and needs.

Shaping Tomorrow's Global Built Environment Today

KEY ENABLERS

- **Research:** The value of ASHRAE's resources is grounded in unbiased data, developed through rigorous research methods.
- **AI:** The use of AI enables ASHRAE to improve data collection, automate internal operations, and promote agility.
- **Global Network:** ASHRAE's global network convenes the industry to generate unparalleled knowledge and content.

STRATEGIC INITIATIVES



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.

OUTCOMES

- ASHRAE's member and volunteer base maximizes the organization's reach, foresight, leadership position, and organizational knowledge.
- A broad group of stakeholders leverage ASHRAE's resources to make decisions and meet objectives that positively affect the environment.
- A viable, thriving industry makes a positive global impact.



Research Advisory Panel (RAP) Update - Summary

Feb 2, 2025

Research Advisory Panel (RAP) is Established



Riley Barta
Purdue University



Roland Charneux
Pageau Morel



Jon Douglas
Johnson Controls Int'l.



Stefan Elbel
TU Berlin



Chris Gray
EcoSmart Solution



Hyojin Kim
NJ Inst of Tech



Lisa Ng
NIST



**Chun-Cheng
Piao**
Daikin



Jin Wen
Drexel University



Chris Wilkins
RFS Engineering

10 Member Panel
Diverse Backgrounds



RAP Establishment and Duties

ASHRAE Research Strategic Plan:

The ASHRAE Research Strategic Plan is updated every eight years by the Research Advisory Panel...

*with **input solicited** from the TCs (and TGs, MTGs w/research authority, SSPCs, and other committees authorized to sponsor research projects), standing committees/councils and from individuals and organizations outside ASHRAE but with the same or related interests to ASHRAE.*



RAP Current Activities

- Initial focus is to develop and implement plan for “*soliciting input*” from within ASHRAE and beyond
 1. Engaging with TAC to solicit input from TCs
 2. Forum being held as part of Las Vegas Winter Meeting
 3. Engaging with RAC to solicit input from Research Subcommittee Chairs (RSC)

Feedback from TAC/TCs

- Attended TAC Breakfast on Sunday
- Provided a questionnaire/survey to solicit input
- **Technical Committees (TCs) play the lead role in most research projects.**
- The TC Research Subcommittees originate and manage research projects based on the needs of their technical area of expertise.

Feedback from TCs is Critical to our effort!



Forum 1 Held Feb 1

- Jin Wen served as facilitator for the session
- Met in small group to obtain feedback on strengths and weakness of ASHRAE Research
- 30'ish attendance, participants were very engaged
- Small sample size, but I felt representative

How well does ASHRAE research serve current and future HVAC&R needs?



Initial Feedback

- Lots of positive and negative feedback
- Participants ranged from undergraduate students to senior engineers.
- RAP will collect feedback, distill, and included more information in the future

TC/TAC Input Opportunities

- A short questionnaire has been developed.
 - Ideas to increase interest of research in TCs.
 - How to improve Research turnout.
 - Why there is no research in some TC's ?
 - Do you ever use the ASHRAE Research Strategic Plan ?
 - What to put in the ARSP to make it a useful tool ?
- You can fill it right now, it takes only a couple of minutes



Possible Focus Groups

- RAP may arrange focus group(s) to allow further input from TCs. This idea is still being developed.
- If you have interest in participating, you can note this on the survey response.
- You can also reach out to either contract below if you have interest in the focus groups and/or have other ideas or comments you would like to share.

Roland Charneux

rcharneux@pageaumorel.com

Steve Hammerling

shammerling@ashrae.org



RAP Overall Goals for RSP

- Provide guidance to address the following:
 1. **Topics/Subjects**
 2. **Outcomes/Deliverables**
 3. **Engagement/Procedures**
- No one in my group mentioned Topics or Subjects
- Previous RSP focused on Initiatives



Questions?



ASHRAE Research Promotion Campaign 2024-25

Chair: Les Pereira, lesper@me.com

1st Vice Chair: Haley Goslinga, haley.goslinga@trane.com

2nd Vice Chair: Andy Manos, andrewmanos22@gmail.com

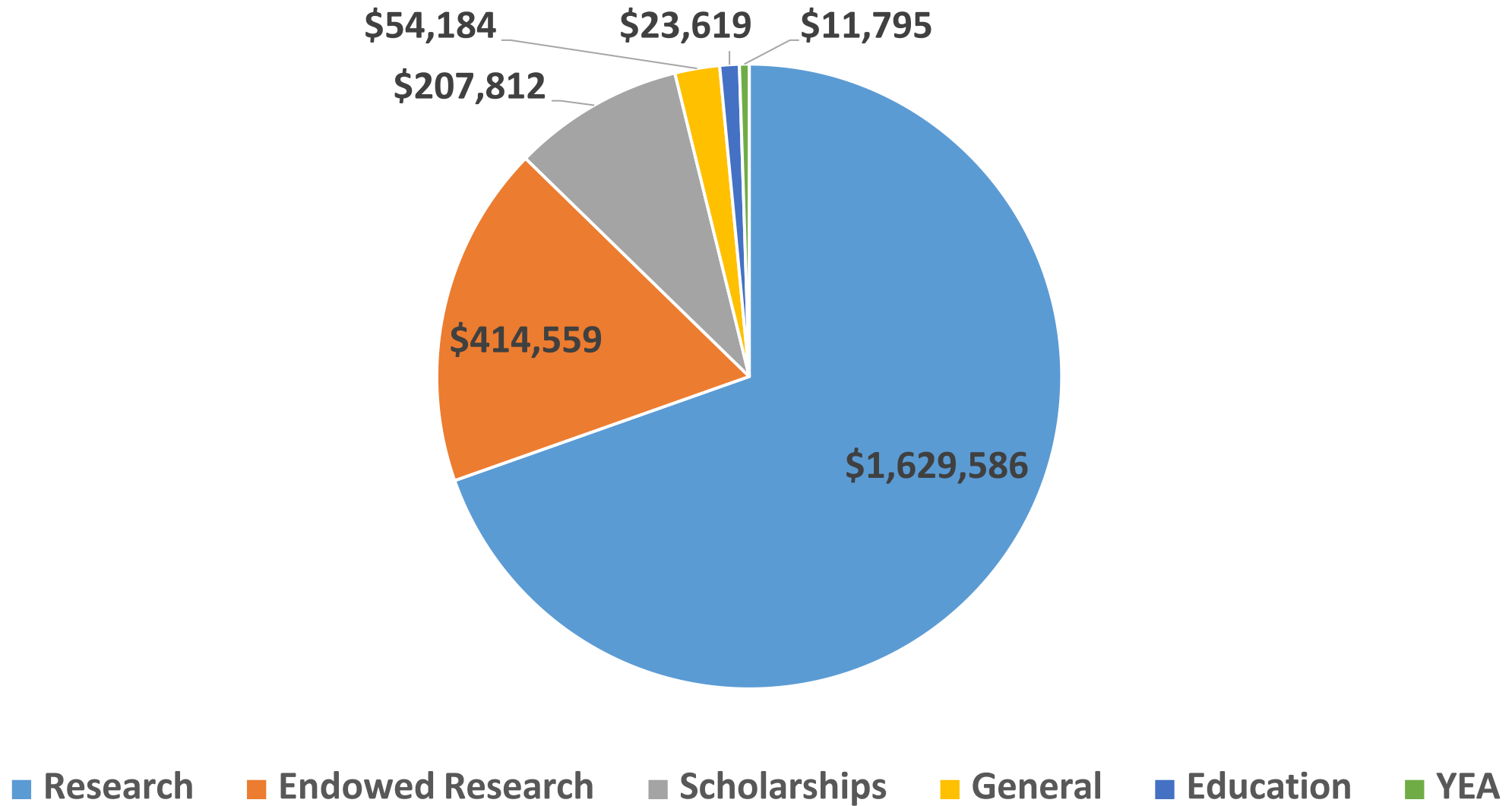
RP Campaign

YTD Results	Last YTD	% Ahead /Behind	Total Goal
\$2,309,888	\$2,171,676	6.4%	\$2,680,000

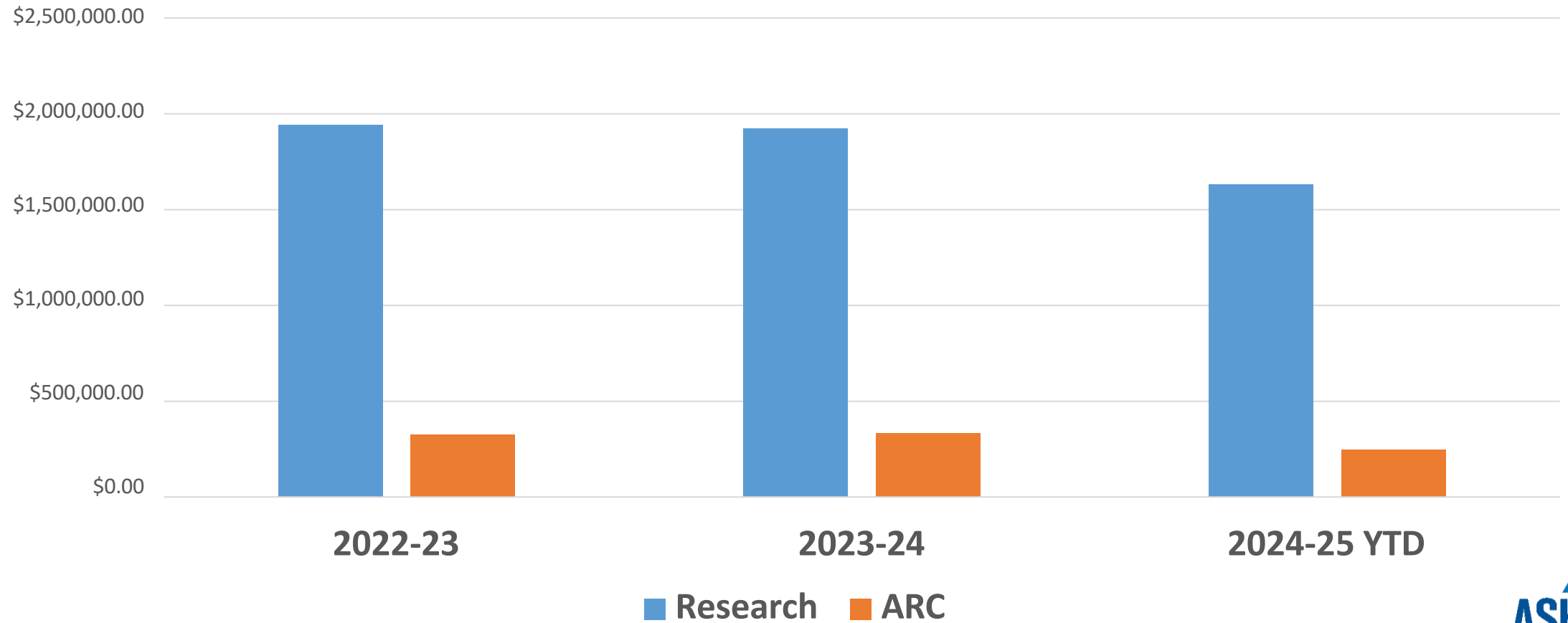
RP is focused on raising money from individuals and corporations to support Research, Education (ALI), the General Fund, YEA, and the Foundation (Endowed Research and Scholarships).



2024-25 RP Campaign YTD



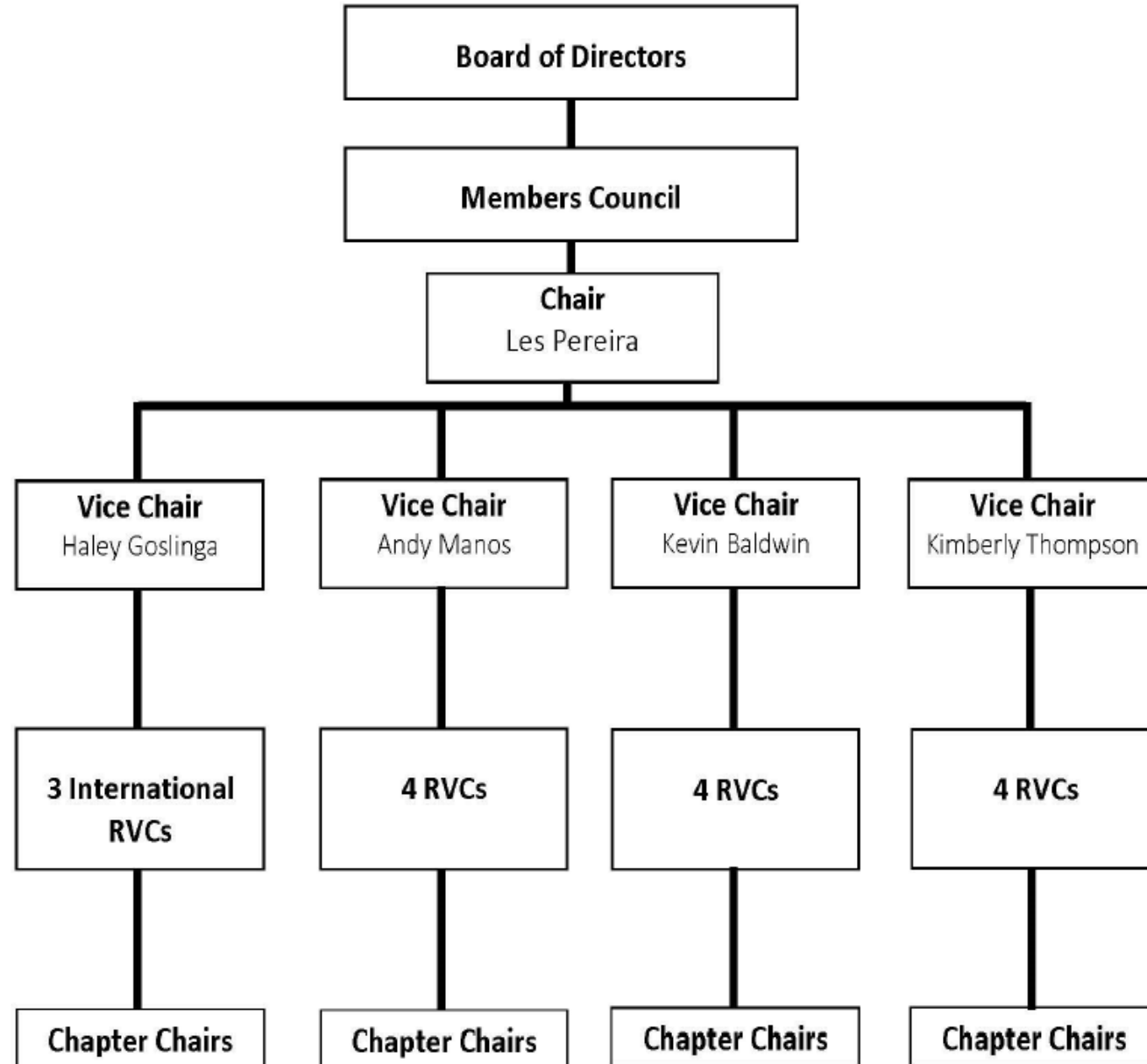
ASHRAE Research Canada



ExCom

Region

Chapter





ASHRAE RP Campaign

The ASHRAE RP Campaign raises critical funds to benefit Society and advance the mission of ASHRAE.



In 2024, the RP Campaign raised

\$2.7 million

for these important initiatives.



24 Active
Research
Projects



20 Grants-in-aid
for graduate
students



62 Chapter
and Society
Scholarships
(awarding \$255,000 annually)



Chapter
sustainability
projects

Find out more about RP: www.ashrae.org/rp



Questions?



ASHRAE Research Budget Update and RAC Activity

2026 Winter Meeting

Budget Update and RAC Activity

ASHRAE RESEARCH Budget SY 25-26 \$4.012 M,

Please encourage your TCs. The funding is there! Currently, **all** approved projects are receiving funding.

Winter 2026

3 Research Topic Acceptance Requests (RTAR)

- 1 Conditionally Accepted
- 2 Returned

3 Work Statements

- 1 Conditionally Accepted
- 2 Returned

6 Tentative Research Projects under review

RTARs, PTARs and WSs

- We would like to develop a mentorship program for writing successful RTARs, PTARs, and WSs; as well as evaluating and monitoring projects
 - Holding a workshop immediately after Research Chair's meeting?
 - Partnering with YEA to hold a panel with experienced authors?
 - Please share your ideas with your RL of what would be most impactful.

Please take 5 minutes to take this survey →



Additional Reminders for Authors

- Show full TC approval vote on RTAR and WS forms, INCLUDING votes of listed co-sponsoring TCs. Low vote turnout and high abstention rates are an issue.
- Include MILESTONES in WS so PMS can track and report successful research progress.
- When resubmitting, include revised version with changes tracked and document that explains how RAC comments were addressed. This includes initial WSs submitted after an RTAR accepted with comments.
- Review budgeting guidance (hidden in this slide packet)
- **All submissions go through your Section Research Liaison**

Complete packages due:

March 15, May 15, August 15, December 15



Additional reminders for PES/PMS

- Recorded Training must be completed before serving on PES and PMS. There is also on-line Q&A in spring and fall.
- Pre-schedule your 2 PES meetings so there is no delay once you receive bid packages. 2 RAC members must be invited to your PES and PMS meetings to ensure proper procedures are followed.

	Fall Solicitation	Spring Solicitation
Projects released for bid	Mid October	Mid March
Bids due from potential contractors	Mid December	Mid May
Contractors selected	Winter meeting	Summer meeting
Earliest possible start date for project	April 1	September 1





ASHRAE Research Manual Update

2026 Winter Meeting

Research Manual Update

- Update Deliverables to require STBE papers with the elimination of ASHRAE Technical Papers
- Update process and agreements for co-funding of ASHRAE research projects
- Updates budget limits that require RAC/TechC/BOD RP approval
- Added coversheet, outline, and evaluation form for PTAR/WSP
- Various editorial changes



ASHRAE Research Portal Update

2026 Winter Meeting

What is it?

Online Tool for TC members, RAC & Staff to propose, manage & administer ASHRAE Research

- Submit new and revised RTARs and Work Statements
- Approvals (TC, RL & RAC) done through tool
- Collect research bids from bidders
- PES evaluations



What's it look like?



Start a New RTAR

Begin the process of creating a new RTAR. Add necessary information, add collaborator and cosponsors, and submit for voting.





Start a New Work Statement

Begin the process of creating a new Work Statement. Add necessary information, add collaborator and cosponsors, and submit for voting.





Upcoming Deadline

RTARs must be submitted by **August 15** to be considered at the next meeting. Submissions after that date will be considered for the December 15 deadline.

My RTARs				My Work Statements			
Drafts Not Submitted	0	Pending Approval	0	Drafts Not Submitted	0	Pending Approval	0
Returned for Review	0	Approval	0	Returned for Review	0	Approval	0

My Committee RTARs				My Committee Work Statements			
Drafts Not Submitted	4	Pending Approval	0	Drafts Not Submitted	1	Pending Approval	0
Returned for Review	0	Approval	1	Returned for Review	0	Approval	1

Enter RTARs / Work Statements in form

 **Research Portal**

DashboardRTARsWork StatementsManage TRPsMy Bids

Co-Sponsors

Co-sponsoring TC / TG / MTG / SSPCs

List only co-sponsoring committees that have voted formal support

Co-sponsor(s)

T-TAC-TC02.04 × +

Work Statement Authors

Please list anticipated lead author and anyone expected to work on Work Statement

Expected Work Statement Author(s)

Michael Kniipple × Yoon Ko × +

Potential Co-Funders

List co-funding organizations with contact information. Sponsoring committee and/or staff will follow up on co-funding opportunities with these organizations

Organization

Donna

Contact Person

Donna Daniel

Contact Info

Hellno

+ Add Another Co-funder

Additional Information

Describe in summary from the proposed research topic, including what is proposed, why this research is important (research needs), how it will be conducted, and why ASHRAE should fund it

Executive Summary

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Create and test an optimized method to develop abbreviated weather files for use in building performance simulation programs that capture the range of climate conditions using fewer representative data points to enable faster simulation times while minimizing the difference in loads compared to using the full annual weather file.

Schedule

- RAC has utilized Research Portal for ***some*** RTAR/WS submissions for last two deadlines
 - All are encouraged to use this now for new RTAR/WS submissions (and revisions to RTAR/WS originally submitted through portal)
- Aim to use portal for ***all*** RTAR/WS submissions for **March 15th deadline**
- Further development needed for use as bid and bid evaluation tool, but stay tuned!

Questions?

- MORTS – Steve Hammerling – shammerling@ashrae.org





ASHRAE Research Awards

Summary of Award Deadlines

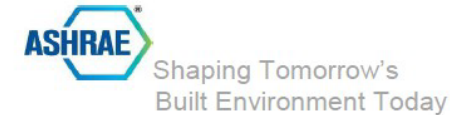
Award	Amount	Recipients	Submission Due
New Investigator Award	125 K	1	Dec. 1, 2026
Graduate Student Grant-in-Aid	5K +5K, 1.5K honorarium STBE	10-20	March 3, 2026
Homer Addams	3.5K	1	Dec. 15, 2026
Innovative Research Grant	50K +50K +25k	1	Dec. 3, 2026 Preproposal
Service to ASHRAE Research	Plaque	1*	Sept. 1, 2026

Service to ASHRAE Research

Recognizes individual for excellence in
volunteer service to Society Research
Nominated by TC/TG Chairs

Key dates:

- Submission deadline: September 1
- RAC reviews and selects awardee during the Fall
- Winner announced at winter meeting



APPENDIX I Page 2

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.

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	1 point per RP
C. Project Monitoring Subcommittee Service	
1. Member	2 points per RP
2. Chair	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)

Note: A tour is a 4-year appointed term.

Graduate Student Grant-In-Aid

Purpose: To acknowledge graduate students researching ASHRAE-related technology and welcome them into the society.

Awards up to \$10,000 plus \$1500 for paper presentation to 10-20 full-time graduate student candidates for use in the following academic year.

Awardees are selected during the spring RAC meeting.

The evaluation criteria for candidates include academic performance, quality of the student's thesis/research plan and its relevance to ASHRAE, the advisors' recommendation, and an overall assessment of the likelihood for future involvement of the student within ASHRAE.

*If an awardee is unable to travel to ASHRAE due to visa restrictions, they can request an extension.

Summary

- New Research Liaisons: Section 2-Brian Fricke and Section 4- Davide Ziviani
- New Standing RAC Subcommittee formed: Research Advisory Panel to develop next ASHRAE Research Strategic Plan
- Help with Research Promotion and donate to ASHRAE Research
- Keep writing RTARs, PTARs and WSs: Due **March 15, May 15, Aug. 15, Dec. 15**
- Online submissions for new RTARs/WS available [now](#)
- Ensure PES training and PMSC training is completed:
 - Posted online www.ashrae.org/technical-resources/research
- Consider submitting Service to ASHRAE Research award nomination