



Shaping Tomorrow's
Built Environment Today

MINUTES (DRAFT)
Refrigeration Technology Committee (RTC)
June 28, 2026 – Annual Meeting

These minutes have not been approved and are not the official, approved record until approved by this committee

MEMBERS PRESENT:

Don Brandt, *Chair*
Bruce Nelson, *Vice-Chair*
Noor Alam
Petros Dalavouras
Martin Dierykx, *BOD ExO*
Stefan Elbel
Dustin Lilya
Cesar Lim
Bruce Lindsay
Andrew Pearson, *Liaison*
Gary Schrift
Doug Scott, *Consultant*
Harshal Surange
Gratiela Tarlea
Xudong Wang, *Liaison*
Shitong Zha
Davide Ziviani

MEMBERS NOT PRESENT:

Devin Abellon, *CO*
Yosr Allouche, *Liaison*
Andrew Beall
Jeffrey Greenwald, *Liaison*
Andrew Pearson, *Liaison*
Gary Schrift, *Liaison*
Danielle Wright

GUESTS:

Roberto Aguilo
Steve Comstock
Aaron Daly
Trent Hunt, *Incoming CO*
Danny Halel
Steve Kujak
Julie Majurin, *Incoming Member*
Stan Nabozny
Andrew Pansulla
Mike Pouchak, *Incoming BOD ExO*
Doug Reindl
Alex Schmig
Eric Smith
Miki Yamanaka

ASHRAE STAFF:

Steve Hammerling, *MORTS*
Heather Pierce, *TSE*

Table of Contents

Motions.....	ii
Action Items.....	ii
List of Attachments.....	iii
List of Acronyms.....	iii
1. Call to Order.....	1
2. Welcome.....	1
3. ASHRAE Value Statement.....	1
4. Quorum Determination.....	1
5. Review of Agenda.....	1
6. Approval of Minutes	1
7. Remarks from Chair	1
8. Liaison Reports	2
9. Subcommittee Reports	2
10. BOD/Tech Council Reports.....	3
11. New or Unfinished Business.....	4
12. Executive Session	5
13. Handover to New Chair	5
14. Next Meeting	5
15. Adjournment	5

MOTIONS

No.	Motion	STATUS
1	That REF-CPCC approve the draft minutes from the Winter (February 1, 2026) meeting.	PASSED

ACTION ITEMS – 2026 Annual Meeting - Austin

No.	Responsibility	Action Item	Status
1	RTC	Determine whether anyone has a low-GWP refrigerant candidate that can be submitted to AHRI for evaluation and testing. More information is available here .	
2	Nelson	Appoint a new chair of the Trends in Refrigeration Ad Hoc	
3	Cold Chain PD Ad Hoc	Submit an updated Cold Chain PD request form to DRSC.	
4	RTC	Send Program ideas for the Winter Meeting in Chicago to Lindsay before the Aug. 3 rd deadline.	
5	Lindsay	Meet with TC10.01 to coordinate co-sponsoring programs.	
6	Lindsay	Meet with TCs to coordinate a long-term conference program plan and ensure alignment.	
7	RTC	Send program ideas for the Annual Meeting in New Orleans to Lindsay.	

ACTION ITEMS – 2026 Winter Meeting – Las Vegas

No.	Responsibility	Action Item	Status
LV-1	Pearson	Send staff updated information to add to REF-CPCC website.	Ongoing
LV-2	Staff	Send Members information on Region XII webinar	Complete

ACTION ITEMS – 2026 January Meeting – Remote

No.	Responsibility	Action Item	Status
R-3	REF-CPCC	Members interested in joining the Cold Chain PD committee should contact Nelson.	Complete

ACTION ITEMS – 2025 Annual Meeting - Phoenix

No.	Responsibility	Action Item	Status
PH-2	Nelson	Review and submit a PD request for a PD on Cold Chain	Complete

LIST OF ATTACHMENTSS

No.	Attachment
A	Final report on 2025-26 MBOs
B	Sustainability and Resiliency of the Cold Chain Position Document Feedback
C	ASHRAE Leadership Presentation
D	SY 2025-2026 MBOs

LIST OF ACRONYMS

ASHRAE	American Society of Heating Refrigerating and Air-conditioning Engineers
AHRI	Air-Conditioning, Heating, and Refrigeration Institute
ANSI	American National Standards Institute
BOD	Board of Directors
CO2	Carbon Dioxide
CO	Coordinating Officer
DL	Distinguished Lecturer
DRSC	Document Review Subcommittee
GWP	Global Warming Potential
IIAR	International Institute of Ammonia
IIR	International Institute of Refrigeration

MBO	Management By Objectives
MOU	Memoranda of Understanding
PD	Position Document
RTC	Refrigeration Technology Committee
SSPC	Standing Standard Project Committee
SY	Society Year
TC	Technical Committee
TPS	Title, Purpose, and Scope
UL	Underwriters Laboratories
UNEP	United Nations Environment
YEA	Young Engineers in ASHRAE

1. **CALL TO ORDER**

Chair Don Brandt called the meeting to order at approximately 8:03 AM CDT.

2. **WELCOME**

Members and guests in attendance introduced themselves.

3. **ASHRAE VALUE STATEMENT**

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

[Code of Ethics](#)

[Core Values](#)

[Diversity Statement](#)

4. **Quorum Determination**

Quorum was confirmed with 12 of 14 voting members attending.

5. **Review of Agenda**

The agenda was accepted as written.

6. **Minutes**

(1) It was moved (Lindsay) and seconded (Alam) that draft minutes from the Winter Meeting (February 1, 2026) be approved.

BACKGROUND: Draft minutes were distributed March 10, 2026.

MOTION 1 VOTE: 11-0-0 CNV – PASSED

7. **Chair's Report - Brandt**

A. **Motions From Past Meetings Requiring Higher Approval**

To recommend initiation of a new ASHRAE Position Document (PD) titled Sustainability and Resiliency of the Cold Chain. **[Motion FAILED at DRSC]**

That Rule of the Board 2.420.Refrigeration Technology Committee for Comfort, Process and Cold Chain be revised to change the name of the Refrigeration Technology Committee for Comfort, Process and Cold Chain to the Refrigeration Technology Committee. **[Motion PASSED Tech Council & BOD]**

B. **SY 25-26 MBOs -- Review**

A final report on committee MBOs (**Attachment A**) would be reported to Operations Subcommittee of Tech Council on Tuesday morning. Five of the six MBOs were reported as complete.

MBO #6 to add an additional Distinguished Lecturer (DL) with a Refrigeration focus was reported as complete. Nabozny has submitted an application. The Chapter Technology Transfer Committee (CTTC) stated the application cannot be approved without additional funding.

C. Action Item Review

Action Item #1 to send staff updated information to add to the RTC website is reported as 50% complete with completion expected soon.

The rest of the actions were reported as complete.

D. ASHRAE/IIAR Student Branch/Chapter joint Refrigeration Education effort.

Refrigeration Technology Committee (RTC) plans to promote refrigeration through reaching out to student chapters at community colleges, having multiple meetings per year to interest students in a career in refrigeration. There is a big need to promote all aspects of refrigeration rather than only design, maintenance, or technicians. Three community colleges have been initially chosen in Vancouver, Dayton, and Phoenix. The intent is to slowly build up a student network that will expand to schools globally.

8. Liaison Reports

A. IIAR – Eric Smith

The International Institute of Ammonia Refrigeration (IIAR) plans to team up with ASHRAE chapters to raise awareness on refrigeration topics, since IIAR does not have chapters.

Addenda to ANSI/IIAR CO2-2021 Safety Standard for Closed-Circuit Carbon Dioxide Refrigeration Systems are being published with a debate on whether guidance should be classified as a standard or a code. Work is being conducted on a new standard for hydrocarbon refrigerants that would certify equipment not built to UL Standard. ASHRAE guidance does not adequately cover supercritical systems, especially Carbon Dioxide (CO2) systems.

B. AHRI – Xudong Wang

The Air-Conditioning, Heating, and Refrigeration Institute (AHRI) is evaluating low Global Warming Potential (GWP) alternative refrigerants ([link](#)). This industry-wide cooperative research program has been established to identify and evaluate promising alternative refrigerants for major product categories. AHRI has conducted literature searches on hydrocarbon and CO2 refrigerants. They are on the third iteration of low-GWP refrigerant evaluation with 19 candidates having a GWP less than 300. The intent is to evaluate the performance of refrigerants to gain an understanding of performance in products. Results will be shared with the public.

This program is based on volunteer test data from refrigerant manufacturers. Submissions are open on a rolling basis. Anyone is welcome to send a refrigerant candidate for testing (**Action Item #1**). More information is available [here](#).

C. Safety for Next Generation Refrigerants Ad Hoc

The Safety for Next Generation Refrigerants Ad Hoc ensures ASHRAE refrigeration safety standards (15, 15.2, and 243P) are supported by high-quality,

peer-reviewed technical information for the safe use of A3 refrigerants in the built environment.

This Ad Hoc is close to submitting a continuous maintenance proposal to Standing Standard Project Committee (SSPC) 15. They note that research is important to develop guidance for similar applications. The Ad Hoc will be receiving results shortly to determine the changes that need to be made to Standard 15 and other relevant guidance.

9. **Subcommittee Reports**

- A. **Communication** – Nelson, Dalavouras, Alam, Elbel, Wright, Zha
Pearson assisted with MBO #1 in promoting the Milton W. Garland Commemorative Refrigeration Award for Project Excellence. He has previously published information promoting submission.
- B. **Planning** – Ziviani, Lilya, Beall, Surange, Tarlea, Lim, Lindsay
This subcommittee has been working with Wright on a survey to gain insight on interest in the IIR, IIAR, and YEA conferences.
- C. **H in Refrigeration Ad Hoc** – Brandt, Lindsay, Zha, Alam
No report from this subcommittee.
- D. **Trends in Refrigeration Ad Hoc**– Beall, Wright, Nelson, Lilya, Dalavouras
Beall was not present to give this report. However, others noted the Trends in Refrigeration spreadsheet is nearing completion. With Beall rolling off the committee, a new member will need to be appointed to lead the continuation of this Ad Hoc's projects (**Action Item #2**).
- E. **Cold Chain Position Document (PD) Ad Hoc** – Nelson, Surange, Alam
A subcommittee was formed and drafted a Title, Purpose, and Scope (TPS) for the PD request form submitted to Document Review Subcommittee (DRSC). They received feedback from DRSC (**Attachment B**). Lindsay summarized that the title is too broad and the Position Document (PD) should focus on a specific aspect of the cold chain. Nelson agrees noting that the intent is to prevent food waste. Dieryckx suggests clarifying what is meant by sustainability. Efforts are expected to resume with an updated PD request form to DRSC anticipated by the Winter Meeting (**Action Item #3**).
- F. **Refrigerants and their Responsible Use Position Document - Lilya**
This PD was approved at the Winter Meeting and has been published to the ASHRAE Website at <https://www.ashrae.org/about/position-documents>.

10. **BOD/Tech Council Reports**

- A. **BOD Ex-Officio – Dieryckx**
Dieryckx presented the ASHRAE Leadership Presentation (**Attachment C**).
- Highlights for RTC include:
- A new ASHRAE Society Calendar to detail committee meetings throughout the year. I'd add a sentence on what it is, the purpose,
 - SY2026-2027 ASHRAE President Sarah Maston's theme is "Changing the Game: Retrofitting for Resilience."

- Refrigerant Transition and Workforce Development are hot topics in Government Affairs.
- ASHRAE's 2026 Handbook on Refrigeration will be published soon.

B. Coordinating Officer (CO) – Abellon
No report from CO.

11. New or Unfinished Business

A. Programs

Lindsay was asked at the Winter Meeting to develop a seminar for Austin that targets students. He chaired [Seminar 31](#): Fundamentals on Ammonia Refrigeration and Application of Thermal Storage in Refrigerated Warehouses. Reindl and Nabozny gave presentations on the fundamentals and applications of this topic.

Lindsay notes there is difficulty in submitting a program for an upcoming conference with little turnaround (August 3rd) after just wrapping up the previous conference. A plan is needed to continue to sponsor programs. Lindsay is considering sponsoring two programs for the Winter Conference in Chicago, one on reclamation and repurposing refrigerants and another on sustainability to inform those interested on upcoming industry trends. RTC members should submit program suggestions for the Winter Conference in Chicago to Lindsay before the August 3rd deadline (**Action Item #4**).

It was noted that RTC tends to assist Technical Committees (TCs) in programs rather than co-sponsoring directly. Lindsay suggests taking more of an initiative to co-sponsor and will meet with TC 10.01 to coordinate co-sponsoring programs (**Action Item #5**). He will meet with other TCs to ensure alignment and coordinate a long-term plan (**Action Item #6**).

Wright has agreed to speak on Fundamentals of CO2 refrigeration at the Winter Meeting. The Winter Meeting has a program on Refrigeration & Refrigerants that will draw a larger crowd than the Annual Meeting programs.

Looking forward, Lindsay asks that members send any program ideas for New Orleans (**Action Item #7**). Walk in coolers and ammonia refrigerant systems on ships were mentioned as possible topics. Please suggest topics and any experts who can speak on these topics.

B. United Nations Environment Programme (UNEP)

Comstock reported that UNEP is interested in contributing funding for an update to the Design Guide for Sustainable Refrigeration. UNEP contributed funding for the initial development, but funds were required to be returned due to differences on the copyright.

C. SY 2026-2027 MBOs

MBOs for the upcoming Society Year (SY) were presented (**Attachment D**) and modified with Nelson seeking volunteers for each task to assist in determining subcommittee assignments.

Staff Note: MBOs presented at the Meeting were edited by Chair Bruce Nelson on July 10, 2026. The version shown here is the current final version.

12. **Executive Session**

RTC voted for a winner of the Milton W. Garland Commemorative Refrigeration Award For Project Excellence and made a recommendation to Honors & Awards.

[EDIT: RTC's recommendation was approved by H&A Committee and Members Council at the Annual Meeting. A notification letter would be sent to winner shortly]

13. **Handover to New Chair**

Don Brandt, Andrew Beall, Dustin Lilya, Harshal Surange were recognized as outgoing members.

Yosr Allouche, Julie Majurin, Andrew Pearson, Xudong Wang were recognized as incoming members.

11. **Next Meeting**

A. 2026 Fall Meeting – TBD

B. ASHRAE Winter Meeting – January 24, 2027 – Chicago, IL

12. **Adjournment**

The meeting was adjourned at 11:56 AM CDT.

MBO Submissions to Planning Committee
Last submission date: 2/2/2026

Generation date: 8/7/2025

Committee: Refrigeration Technology Committee for Comfort - Process - Cold Chain Committee

Chair: Brandt Donald L

Vice-chair: Nelson Bruce I

MBO #	Description	Metric (how do we determine success?)	Completion % /Date	Financial Assist Req'd?	Staff Assist Req'd?	MBO Comments
1	Promote Milt Garland Refrigeration Award	Have three submissions	Jan 2026 100%	Yes	Yes	Communication Subcommittee 100% complete as of Winter Meeting An article is submitted for the March issue of the ASHRAE Journal to promote the award. Currently, there are 4 submissions.
2	Complete MOU s with GCCA and NASRC	Signed MOU s	May 2026 67%		Yes	Chair 100% complete, Approved at ExCom, BOD and signed along with a detailed work plan
3	Host a happy hour in Las Vegas, Feb 2026 Meeting	Event Happens	Dec 2026 0%	Yes	Yes	Planning Subcommittee 0% complete, this has passed and has not been rescheduled
4	Co Sponsor a Tech Session in Las Vegas, Feb 2026 Meeting	Event Happens	August 2026		Yes	Committee 100% complete
5	Develop a standard ppt for Refrigeration Committee Liaisons can use at the 2026 Winter and Annual meetings	PPT Completed	Dec 2026 100%		Yes	Committee 100% complete, a powerpoint was finished and circulated among REF-CPCC committee members
6	Add one DL with Refrigeration Focus	Added DL	June 2026 100%	Yes	Yes	Planning Subcommittee 100% complete, Stan Nabozny has applied

Request Form for a new ASHRAE Position Document

To: TECHNOLOGY COUNCIL Document Review Subcommittee

Originator: Bruce Nelson, Vice Chair REF-CPCC Date: 17 Oct 2025

Title: SUSTAINABILITY AND RESILIENCY OF THE COLD CHAIN

Purpose for the Position Document: To examine and improve the sustainability and resiliency of the cold chain globally. Significant opportunities exist within the cold chain, both in developed and developing economies, to increase food production, reduce food waste, reduce direct and indirect emissions of green house gases, reduce environmental pollution, and improve profitability and business viability. Purpose of the document is to list these opportunities and encourage their development and uptake.

Scope proposed for the Position Document: To list, describe, and encourage the application and implementation of refrigeration and related technologies which will improve sustainability and resiliency across the entire cold chain, including post-harvest cooling, food processing, storage and distribution, retail, and transportation market segments.

ASHRAE Members, Committees with topic interest (if known): REF-CPCC, TC10.1, TC10.2, TC10.6, TC10.7.



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2026 ASHRAE Annual Conference

LEADERSHIP PRESENTATION

Code of Ethics

We will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment, integrity, collaboration, volunteerism and diversity, and we shall avoid all real or perceived conflicts of interest.

Value Statement

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

Harassment and Discrimination

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

Commercialism

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

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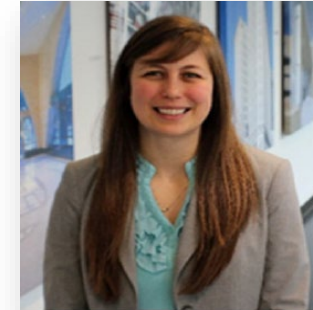
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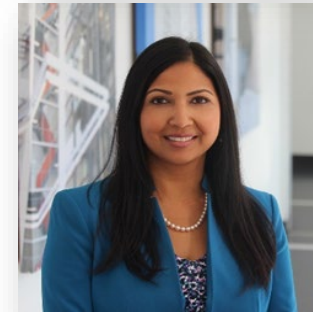
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ASHRAE Acronym Guide

Download this quick guide for an easy reference of acronyms commonly used in ASHRAE. Easily see and search through over 400 terms!

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ASHRAE President

Bill McQuade, P.E., CDP, Fellow ASHRAE, LEED AP is ASHRAE's President for the 2025-26 term.

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Reference this quick and informative resource for all of your ASHRAE branding needs and questions including logos, color palettes, chapter information, and typography.

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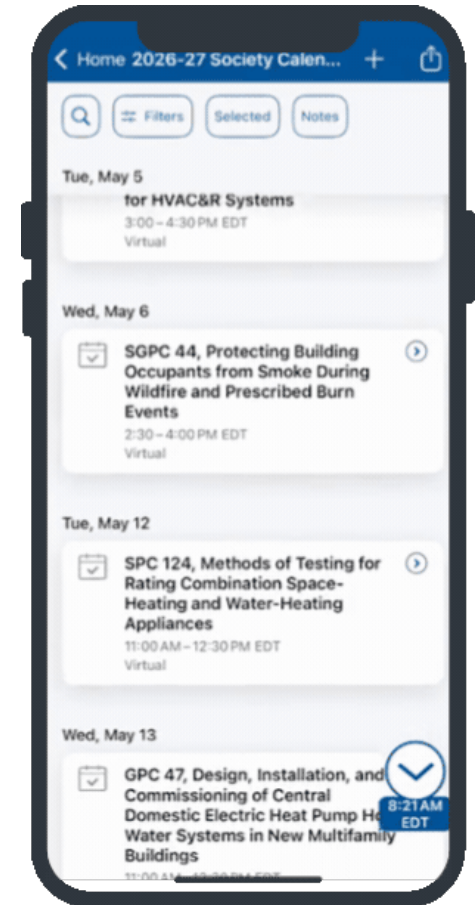
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NOTE: ASHRAE Conferences will continue to have detailed events in ASHRAE 365. Chapter and Region events will not be included.



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Check out the new Vision 2035!

ashrae.org/vision2035

Vision 2035 and previous long-range vision plan editions serve as time-bound milestones advancing ASHRAE's overall [Mission and Vision](#). It provides guidance for continuity across [Strategic Plans](#) through 2035.

Focus Areas

- ✓ Personalized and Resilient Environments
- ✓ Regenerative Development
- ✓ Human Centered and Equitable Design
- ✓ Intelligent Building Lifecycle
- ✓ Low Carbon and Circular Built Environments

Update: [ASHRAE Strategic Plan is extended through 2030](#)

ashrae.org/strategicplan



President's Luncheon



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Monday, June 29 | 12:15 PM

Ticket Required

Welcome new board members and
thank outgoing members at the
President's Luncheon.

Hear incoming Society President Sarah
Maston introduce the Society Theme:

**Changing the Game:
Retrofitting for Resilience**

Hot Topics in Government Affairs



AI / Data Centers



EPCA Modernization (DOE
Appliance and Equipment Standards)



IAQ/IEQ/Thermal Comfort



Refrigerant Transition



Energy Codes, Resiliency and Affordability



Workforce Development (trades and STEM)

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Projections for Society Year ending June 30, 2026



\$2.8M Raised through Research Promotion Campaign



\$275,000 Awarded through 79 Scholarships



\$35,000 Raised by College of Fellows and Life Members Club



\$830,000 Raised for Endowments with the ASHRAE Foundation



\$2M Raised for ASHRAE Research

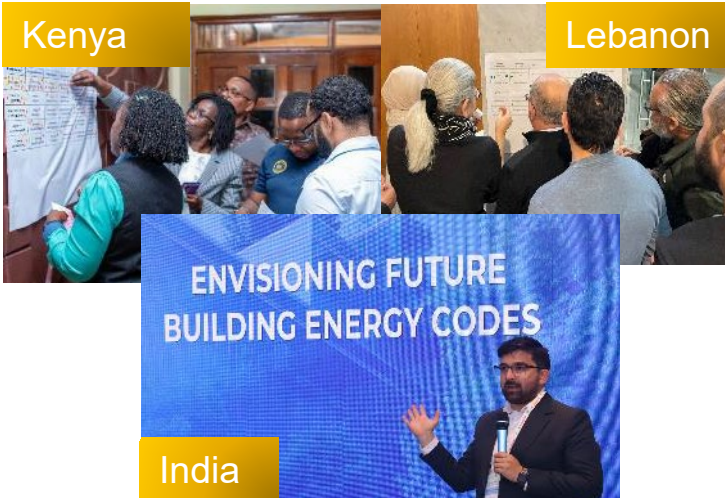


\$1.2M Given by ASHRAE Regions, Chapters and Sections

More than 3,500 contributions from Members, Organizations and other Associations



CEBD Strategic Planning Retreat



Building Code Workshops

Strategic Planning Retreat *(Held April 24-25, 2026 in Washington, DC)*

- ✓ Strategized Alignment with CE IEQ
- ✓ Developed Future Strategic Initiatives & Existing Enhancements

SY 2026-2027 Strategic Initiatives

- ✓ Asserting Leadership in Whole Life Carbon
- ✓ Charting the Path to 2050
- ✓ Accelerating Market Adoption & Insight

Enhancements to Existing Priorities

- ✓ Additional Building Code Assessment Tool (BCAT) Workshops
- ✓ CEBD Chapter Engagement & Ambassador Program
- ✓ Strengthen Committee-to-Committee Collaboration

Additional Activities

- ✓ Tech Council: Five (5) Research Projects Underway
- ✓ Members Council: Distinguished Lecturer Presentation on Decarbonization Retrofits
- ✓ Publication & Education Council: Two (2) Design Guides and Two (2) eLearning Courses
- ✓ Building Code Workshop held at Developing Economies Conference



CE IEQ April 23-24, Washington, DC

Strategic Planning Retreat

- ✓ Develop IEQ Roadmap
- ✓ Harmonize Current & Expedite Future IEQ Guidance
- ✓ Strategize Alignment with CEBD, EHC, & GAC
- ✓ Create External Engagement & Liaison Strategy
- ✓ Develop Future Strategic Priorities

SY 2026-2027 Strategic Priorities

- ✓ Announce and Activate CE IEQ
- ✓ Develop IEQ Operator Checklist
- ✓ Develop Standards-specific Guidance
- ✓ Continue Support for 235p
- ✓ Develop a Holistic IEQ Briefing Document
- ✓ Develop Metrics for IEQ & Energy Nexus
- ✓ Review & Strengthen Organizational Relationships



Available July 1, 2026 at
ashrae.org/CEIEQ



NEW! AI Data Center Framework



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planning and development.**

Available in 'Technical
Resources' on [ashrae.org](https://www.ashrae.org).



Planning
and Siting



Integrated Design
Principles



Energy and
Thermal Efficiency



Grid Interactivity and
Demand Flexibility



Resilient
Design



Commissioning and
Performance Validation



Operations and
Maintenance



Retrofit and
Modernization Strategies



Tools, Standards,
and Resources

Standards & Guidelines



ABOUT | **TECHNICAL RESOURCES** | PROFESSIONAL DEVELOPMENT | CONFERENCES | COMMUNITIES | MEMBERSHIP

New Standards

STANDARD

ANSI/ASHRAE/IES Standard 90.1-2025
(Supersedes ANSI/ASHRAE/IES Standard 90.1-2022)
Includes ANSI/ASHRAE addenda listed in Appendix P

Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings (I-P Edition)

See Informative Appendix A for dates of approval by ASHRAE, the Illuminating Engineering Society, and the American National Standards Institute.

This Standard is under continuous maintenance by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely consideration, comment, and response for changes to any part of the Standard. Procedures for how to submit a change can be found at www.ashrae.org/standards.

The latest edition of an ASHRAE Standard may be purchased from the ASHRAE website (www.ashrae.org) or from ASHRAE Customer Service, 180 Technology Parkway, Peshawar, San Jose, CA 95128. E-mail: orders@ashrae.org. Fax: 650/525-2125. Telephone: 408/536-6400. (worldwide), or toll-free 1-800-527-4723 (for orders in US and Canada). For reprint permission, go to www.ashrae.org/permissions.

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STANDARD

ANSI/ASHRAE/ASHE Standard 170-2025
(Supersedes ANSI/ASHRAE/ASHE Standard 170-2022)
Includes ANSI/ASHRAE/ASHE addenda listed in Appendix G

Ventilation of Health Care Facilities

See Informative Appendix C for approval dates by ASHRAE, the American Society for Health Care Engineering, and the American National Standards Institute.

This Standard is under continuous maintenance by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely consideration, comment, and response for changes to any part of the Standard. Procedures for how to submit a change can be found at www.ashrae.org/standards.

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STANDARD

ASHRAE

ANSI/ASHRAE Standard 231-2026

A Control Description Language for Building Environmental Control Sequences

Approved by ASHRAE and the American National Standards Institute on February 27, 2026.

This Standard is under continuous maintenance by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely consideration, comment, and response for changes to any part of the Standard. Procedures for how to submit a change can be found at www.ashrae.org/standards.

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STANDARD

ASHRAE

ANSI/ASHRAE Standard 169-2025
(Supersedes ANSI/ASHRAE Standard 169-2021)
Includes ANSI/ASHRAE addenda listed in Appendix C

Climatic Data for Building Design Standards

See Informative Appendix C for approval dates.

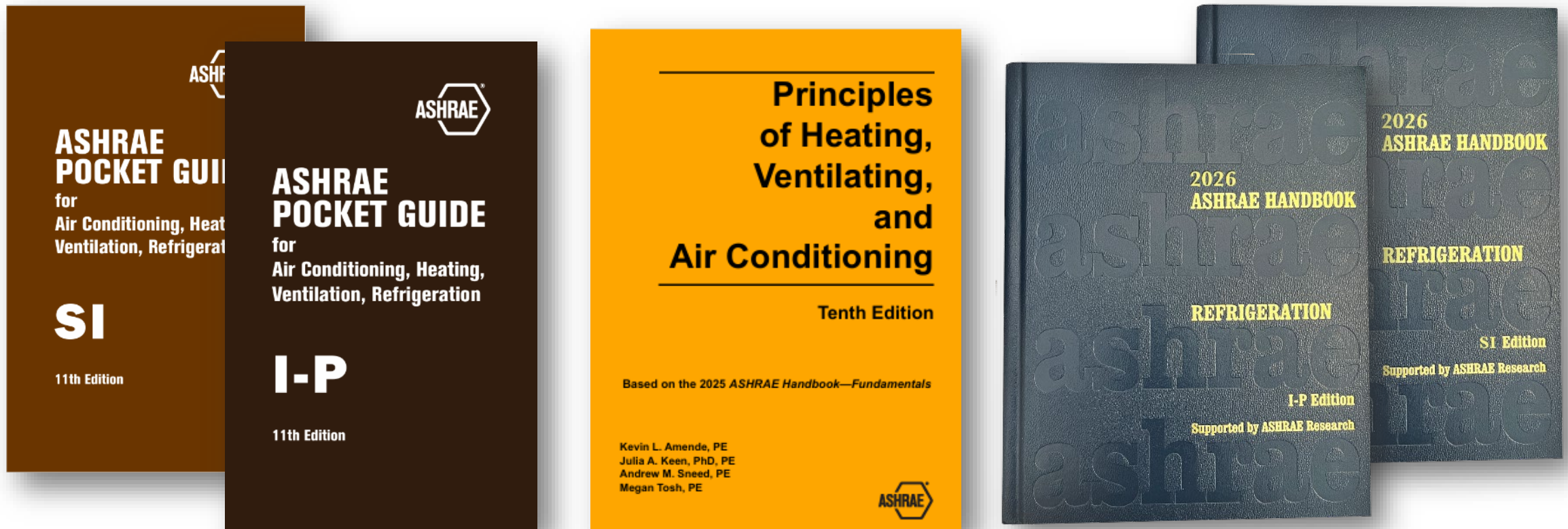
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Coming Soon!



Pre-order PHVAC and 2026 ASHRAE Handbook -- Refrigeration

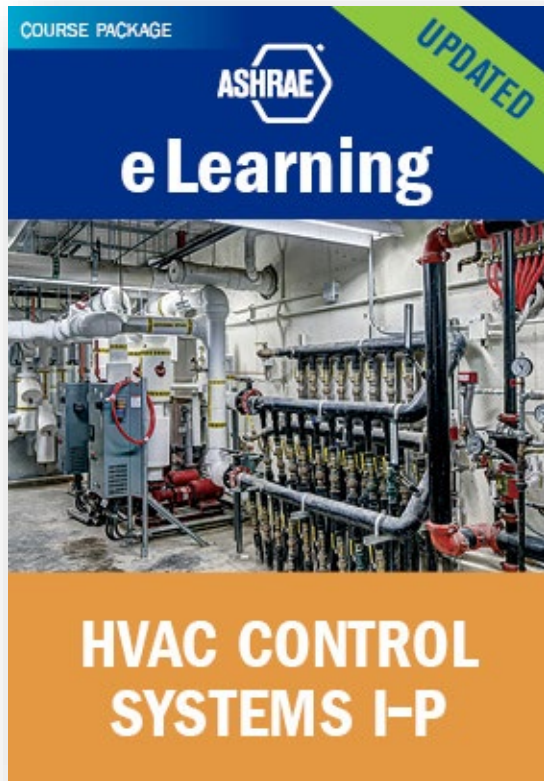
Professional Development



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eLearning

Updated Course



ASHRAE Learning Institute Free Publication



Register for ALI's Live Virtual Training and receive a **FREE** ASHRAE Standard or Guideline!

Certification

Record Application Total
On Track for SY 2026



Thanks to the contributions from **Richard and Mary Farr, the Setty Family Foundation, and the Jim and Nancy Fields Professional Engineering and Technology Development Fund**, the Professional Development Scholarships will provide eligible ASHRAE Members with **35%-50% off the listed member registration fee.**

Criteria

- ✓ Within first five years of membership
- ✓ Apply 3 weeks before your course
- ✓ Must include a chapter officer's support letter

Where to apply? Check the page of the course you're interested in for an application.



2026 - 27 Topical Conferences



ABOUT | TECHNICAL RESOURCES | PROFESSIONAL DEVELOPMENT | CONFERENCES | COMMUNITIES | MEMBERSHIP



Seattle, WA, September 23-25, 2026

**2026 ASHRAE Building
Decarbonization Conference**



Beirut, Lebanon, October 8-9, 2026

**Seventh International Conference on
Efficient Building Design**



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

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



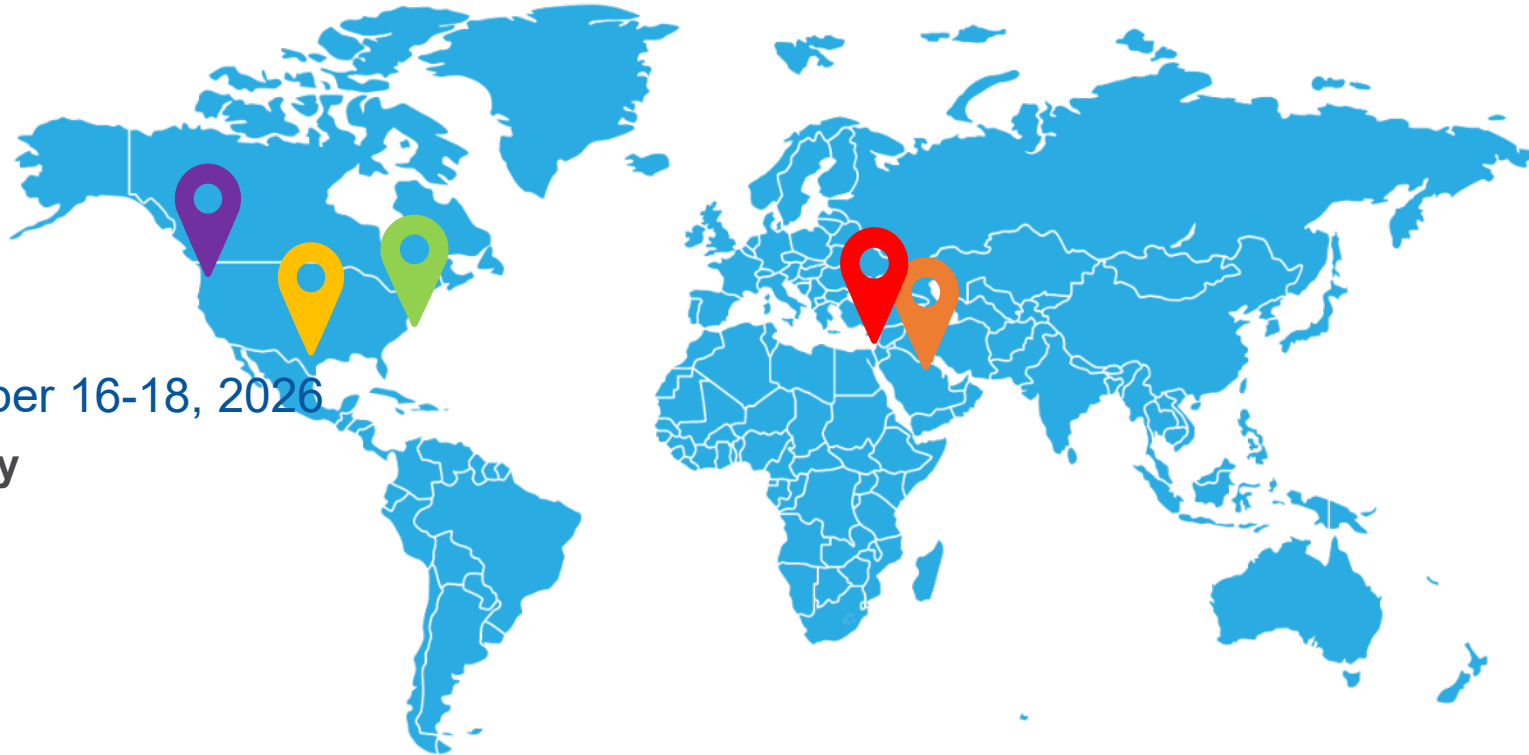
Dallas, TX, March 3-5, 2027

**2027 ASHRAE Data Center and AI
Integration Conference**



Baltimore, MD, April 12-13, 2027

Women in ASHRAE Leadership Symposium



Changes to Future ASHRAE Annual Conferences

The Future of ASHRAE Conferences Ad Hoc charge is to recommend a new overall Society conference strategy which specifically focuses on **changes to the typical Annual Conference**.

A recommendation will be made at the 2026 Annual Conference in Austin. Approved changes will be reflected in **the coming years**.

Any approved changes will **not** go into effect until 2030. Annual Conference will remain the same through 2029.



Join us in Chicago
Jan 23 - 27

Registration Opens in
September

Nominate for Committees and Awards



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Find Committees and Nominate Yourself or Others

SEP
2026

September 18: Nominations for elected positions are due. (Publications & Education Council, Tech Council, RAC, TAC, Standards, Handbook, Nominating)

FEB
2027

February: Nominations for appointed committees are due.

JUN
2026

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

HONORS & AWARDS

The following awards have a DEC 1 deadline:

Andrew T. Boggs Service Award

Distinguished 50-Year and 75-Year Member Award

Distinguished Service Award (DSA)

Louise & Bill Holladay Distinguished Fellow Award

Exceptional Service Award (ESA)

Eunice Foote Decarbonization Award



Proposed Bylaws amendment on Spring Ballot,
emailed to you in late April from noreply@directvote.net.

Member Grade					Student Member Grade		Other			
Member				Young Professional	Tenured Professional	Life Service Member	Presidential Member	Student Member	Student Branch Advisor	Honorary Member
WB Tier 1 Standard Dues	WB Tier 2 80% of dues	WB Tier 3 60% of dues	WB Tier 4 40% of dues	50% (+ tier discount)		FREE		90% (+ tier discount)	80% (+ tier discount)	FREE
Anyone involved in the building sciences industry				Anyone ≤ 35 yo who joins pays this fee first for 2 years	Anyone ≥ 65 yo with 25 years cumulative membership	30 yrs cumulative member + ≥ 65 + DSA or 15 qualifying service points	Served as Society President	Must be currently enrolled in university, college, junior college or technical institute	Faculty member who is ASHRAE member & must submit application and submit annual report	Any notable person of preeminent professional distinction & elected by the BOD
Handbook Online + *Journal , HPB, Insights + Tech Portal + Member Pricing + Voting Privileges and Serve as C,R,S level roles Choice of 1: eLearning Course, Certification Study Guide, Standard or Guideline				Handbook Online + *Journal, HPB, Insights + Tech Portal + Member Pricing		Same as Member + waived dues, extreme discounts to W&A Conferences. Invitations to VIP events (Presidential Only)		Same as Young and Tenured Professionals		Full Member Benefits if requested
Additional New Member Benefits: Receive a Comp Winter or Annual Conference to attend in first 3 years + Handbook Online access for 1 year										

Proposed Dues Rates

VOTE TODAY

Proposed Bylaws amendment on Spring Ballot,
emailed to you in late April from noreply@directvote.net.

Career and Economic discounts off main dues rate as set by the Board of Directors.

Economic discount based on country of residence as defined by the World Bank.

High Income = Tier 1, Upper Middle Income = Tier 2, Lower Middle Income = Tier 3, Low Income = Tier 4

ASHRAE Membership Dues Rate Table		Career Based Discount				
		All Others	Young Pro OR Tenured Pro	Student Branch Advisor	Student	Life Service & Honorary
Economic Discount		0%	50%	80%	90%	100%
World Bank Tier 1	0%	\$290	\$145	\$60	\$30	FREE
World Bank Tier 2	20%	\$230	\$115	\$45	\$25	FREE
World Bank Tier 3	40%	\$175	\$90	\$35	\$20	FREE
World Bank Tier 4	60%	\$115	\$60	\$25	\$10	FREE

The dues rates and percentages are for **illustrative purposes only**, based on 2026-2027 dues rates. The Finance Committee is responsible for reviewing, recommending changes and interpreting fees, dues, and privileges. (ROB 2.408.004)



Timeline

Learn More at ashrae.org/2026Bylaws



PLEASE VOTE! Election Closes
Saturday, 3:00 PM CT June 27!



Please vote on the Proposed Bylaws amendment on Spring Ballot. Questions? Email ballot@ashrae.org.

By June 30, 2027: If Bylaws amendment are approved, all changes made to membership database, website, promotional materials, ROB, Committee/Council MOPs and training materials.

July 1, 2027: New model implemented.

Media Inquiries



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

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

Thank you!

Questions or Comments?

[ashrae.org](https://www.ashrae.org)

MEMORANDUM

From: Bruce Nelson, Chair
Stefan Elbel, Vice Chair
Refrigeration Technology Committee
To: Committee and Subcommittee Members
Date: 9 Jul 2026 - REV D
Subject: 2026-27 MBO Objectives and Tasks

Following are objectives and supporting tasks to be taken up by the Refrigeration Technologies Committee (RTC) during the 2026-27 term.

OBJECTIVE #1: Review of the ASHRAE Strategic Plan relative to inclusion of refrigeration-specific Goals, Objectives, and Initiatives. This review is to include both the ASHRAE Strategic Plan and the ASHRAE Research Strategic Plan documents.

JUSTIFICATION: This is a committee activity required by Section 2.420.004 of the ASHRAE Rules of the Board.

SUPPORTING TASK 1.1. Strategic Plan Review

Responsibility: Planning Subcommittee
Chair: Davide Ziviani
SC members: Alam, Dalavouras, Lim, Lindsay, Tarlea, Halel, Pearson

Description of the Work: Section 2.420.004 of the ASHRAE Rules of the Board reads as follows: "This committee (RTC) shall develop procedures for recommending updates to the strategic plan on a continuous basis. As a minimum the committee shall submit a report to the council prior to the Annual Meeting. The report includes the current status of each activity which supports the fulfillment of the committee's assignments under the strategic plan. The committee shall report to the council all recommendations for changes to the strategic plan as provided by the committee's constituents prior to the Annual Meeting."

The SC is tasked with reviewing the Strategic Plan and Research Strategic Plan documents, and to recommend changes to make the documents clearly inclusive of the important leadership role ASHRAE should take in developing the refrigeration technologies and strategies needed to make HVACR systems more robust and sustainable.

Deliverable: A written report outlining the review process and any recommended changes to the current Strategic Plan and Research Strategic Plan documents, addressed to the ASHRAE Board of Directors. The report will be submitted to the

Chair of RTC, and reviewed and approved by the full committee prior to submitting to the BOD.

Completion Date: May 2027

OBJECTIVE #2: Encourage chapter, regional, and international level refrigeration-related educational activities.

JUSTIFICATION: This is a committee activity required by the Manual of Procedures sections A1.1, A1.2, A1.3, and A1.6.

SUPPORTING TASK 2.1. Creation of a global database of qualified refrigeration-topic speakers by Region. The speakers must be willing and able to present up-to-date information at local ASHRAE chapter and student chapter meetings according to ASHRAE non-commercialism guidelines.

Responsibility: Communications Subcommittee
Chair: Stefan Elbel
SC members: Wright, Schrift, Allouche, Alam, Lim, Lindsay, Ziviani, Harel, Majurin, Smith, Tarlea, Zha, Wang

Description: Goal of this project is to drive attendance of refrigeration engineers and practitioners at local chapter and student chapter meetings by providing local chapter program subcommittee chairs with names of high quality refrigeration-topic speakers in their respective regions. The speaker database produced by this project will be developed in close cooperation with the Chapter Technology Transfer Committee (CTTC), who will distribute the speaker database to the Regional Vice Chairs (RVCs) and thence to the local chapter program subcommittee chairs. i.e. Our customer for this "product" will be CTTC. Note that Chair of CTTC for SY2026-27 is Liz Zakelj, E: elizabeth.zakelj@gmail.com M: 330.620.4538

Deliverable: The project should deliver a) a well-defined program for development and maintenance of a global database of qualified refrigeration-topic speakers by ASHRAE Region, and b) a first edition of the global refrigeration speakers database. The speakers must be willing and able to present up-to-date information at local ASHRAE chapter and student chapter meetings according to ASHRAE non-commercialism guidelines. Format for the database must be editable for continuous updating, and in a format which is acceptable and useable by CTTC. It is recommended that a Manual of Procedures for this program be developed to insure the database stays current, relevant, and useful to CTTC.

Completion Date: May 2027

SUPPORTING TASK 2.2. Create a schedule of RTC-sponsored refrigeration technical sessions for future annual and winter meetings.

Responsibility: Program Subcommittee
Chair: Bruce Lindsay
SC Members: Ziviani, Wright, Pearson, Mahvi

Description: Organize and schedule a series of RTC-sponsored refrigeration technical sessions to be held at upcoming annual and winter meetings. Identify and recruit expert speakers able to bring state-of-the-art knowledge to the audience. Work with ASHRAE staff to secure a place on meeting programs, etc.

Deliverable: A written report with programs identified through the Chicago Winter Conference (2029), submitted to the RTC for review and approval.

Completion Date: Dec 2026

OBJECTIVE #3: Encourage university engineering students to consider a career in the field of refrigeration engineering.

JUSTIFICATION: The ASHRAE Strategic Plan lists development of an "empowered workforce" as one of its strategic initiatives. Attracting new engineering talent is high on the priority list for employers who utilize refrigeration technologies in their business.

SUPPORTING TASK 3.1. Collaborate with NASRC, IIAR, and ASHRAE university student chapters to organize and conduct on-site Student Training and Career Networking (STCN) events.

Responsibility: Ad-hoc Student Event Subcommittee
Chair: Danielle Wright
SC Members: Brandt, Elbel, Alam, Dalavouras, Daly, Hael, Lilya, Lindsay, Nabozny, Schrifft, Tarlea, Ziviani

Description: Develop a program, in cooperation with NASRC and IIAR, to conduct a series of one-day on-site university engineering student events. The purpose of the Student Training and Career Networking day being to introduce engineering students to the field of refrigeration engineering, offer a general overview of refrigeration technical topics, and interact with table-top exhibitors and potential employers.

Deliverable: A written plan document (Manual of Procedures) describing the STCN program, partner responsibilities, cost and revenue sharing (program budget), schedule, and communication plan (i.e. publication in the ASHRAE Journal and

Insights, local ASHRAE chapter newsletters, etc.). The plan document to be reviewed and approved by RTC for forwarding to the ASHRAE BOD for their approval.

Completion Date: May 2027

OBJECTIVE #4: Promote the Milton W. Garland Commemorative Refrigeration Award for Project Excellence.

JUSTIFICATION: Required by the RTC Manual of Procedures section C1.8.

SUPPORTING TASK 4.1. Publish an article in the ASHRAE Journal and Insights promoting the Milt Garland Award and soliciting submissions.

Responsibility: Communications Subcommittee
Chair: Stefan Elbel
SC Members: Alam, Dalavouras, Harel, Lindsay, Zha

Description: Develop a brief article calling for award nominations to be published in the Jan/Feb ASHRAE Insights. The committee will also provide an email blast for distribution to local chapters (coordinated with CTTC) coordinated by ASHRAE staff.

Deliverable: A draft article submitted to ASHRAE Insights to be published in the Jan/Feb edition(s), coordinated by ASHRAE staff.

Completion Date: December 2026

SUPPORTING TASK 4.2. Determine the winner of the Milton Garland Award.

Responsibility: Ad-hoc Award Subcommittee
Chair: Bruce Nelson
SC Members: TBD

Description: The award evaluation process will be conducted as described in "Part 2 Award Evaluation" of the RTC Reference Manual.

Deliverable: Scores and award recommendations will be delivered to the RTC committee staff liaison, with a written report from the Chair of the Award Subcommittee sent to the RTC Chair for presentation and approval by the full committee at the Annual Meeting.

Completion Date: No later than 14 days prior to the RTC committee meeting at the Society Annual Meeting.

OBJECTIVE #5: Update the ASHRAE Guide for Sustainable Refrigerated Facilities and Refrigeration Systems to a) bring the Guide up to date with state-of-the-art information which is relevant to the reader, and b) create an online training program based on the updated Guide content.

JUSTIFICATION: The ASHRAE Strategic Plan emphasizes sustainability. This project will raise the profile of state-of-the-art refrigeration applications to the membership.

SUPPORTING TASK 5.1. Initiate and facilitate the work needed to update the Guide.

Responsibility: Ad hoc GFSRFRS Update Subcommittee
Chair: Scott
SC Members: Schrift, Daly, Schrivener, Hael, Borrowman

Description: Identify and work with a champion ASHRAE committee (CEBD, TC10.2) or another partner organization (IIAR) to develop a project Work Statement to update the Guide. Provide a liaison(s) from RTC to sit on the project subcommittee working group.

Deliverable: A written work plan describing the process of updating the Guide.

Completion Date: June 2027

OBJECTIVE #6: Submit a revised Position Document (PD) application having the new title: "Sustainability and Resiliency of the Food Cold Chain".

JUSTIFICATION: Section E1.2(b) of the RTC Reference Manual indicates that the Communications Subcommittee is responsible for helping to develop position documents and public policy.

SUPPORTING TASK 6.1. Revise and resubmit the PD application form for the previously rejected application, addressing DRSC comments and requested changes.

Responsibility: Ad hoc Cold Chain PD Subcommittee
Chair: Stefan Elbel
SC Members: Lilya, Nabozny, Surange, Daly, Aguilo

Description: A PD application was submitted by the RTC Communications Subcommittee during SY2025-26. The application was reviewed and rejected by DRSC with comments and recommended changes and the suggestion to resubmit. Following are notes from the DRSC review sent to me by Steve Hammerling after their meeting. These need to be addressed in the revised TPS and PD application.

Title: **Sustainability and Resiliency of the Cold Chain(change to add 'Food')**

Purpose: To examine and improve the sustainability and resiliency of the cold chain globally. Significant opportunities exist within the cold chain, both in developed and developing economies, to increase food production, reduce food waste, reduce direct and indirect emissions of green house gases, reduce environmental pollution, and improve profitability and business viability. Purpose of the document is to list these opportunities and encourage their development and uptake.

Scope: To list, describe, and encourage the application and implementation of refrigeration and related technologies which will improve sustainability and resiliency across the entire cold chain, including post-harvest cooling, food processing, storage and distribution, retail, and transportation market segments. Topics covered in the PD would relate to decarbonization of the cold chain, including reducing GHG emissions (both direct and indirect), encouraging the use of low-GWP refrigerants, eliminating or minimizing negative environmental impacts of refrigerants, reducing food waste, use of renewable energy sources, making the economic case (improved profitability), and reduction of regulatory barriers to adoption of the listed technologies and best practice. (Sentence starting with 'Topics' was deleted)

- The PD appears to focus on food production and spoilage but this is not communicated in the title.
- Suggest striking second sentence of scope to remove references to refrigerants, GHG (GHG covered in Climate Change, Decarbonization, and Energy Efficiency PDs)
- Concerns on lack of clarify in title to intended purpose and overlap with other PDs. **[Staff note - ASHRAE publishes PDs on Resiliency, Climate Change, Energy Efficiency, Decarbonization and Refrigerants – see www.ashrae.org/about/position-documents. The TPS should be crafted to show how Cold Chain issues fit outside of current guidance. To make things very clear to DRSC, the BACKGROUND to this motion may wish to explicitly state what cold chain related guidance is currently in ASHRAE PDs, and how a new Cold Chain PD would fill gaps. DRSC is looking very close at eliminating overlap of ASHRAE PDs so this will get very close scrutiny]**
- Is the listed Scope a better Purpose?
- Change low GWP to lower GWP **[Staff note - this is in a sentence struck, so may no longer apply]**

It was also suggested that the application include a recommended chair and members (8-9) for the PD development committee.

Deliverables: A revised PD application having the above DRSC comments addressed.

Completion Date: Dec 2026

END