

ASHRAE TC 10.1

Custom Engineered Refrigeration Systems

ASHRAE 2026 Annual Conference – TC 10.1 meeting agenda

June 30, 2026 ~ 1:00 pm – 2:30 pm Central Daylight Time

Microsoft Teams ~ Meeting ID: 265 077 424 552 788

Passcode: zd2YP3nz

<https://teams.microsoft.com/meet/265077424552788?p=luAdIM8TrwZrkG8HZ5>

To: Members and guests of TC 10.1

From: Andy Campbell, TC 10.1 Chair

Date: June 30th, 2026

I. Preliminaries.

- A. Call to order.
- B. ASHRAE Code of Ethics Commitment: 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 interest and behavior that is discriminatory and/or harassing.
 - 1. <https://www.ashrae.org/about/governance/code-of-ethics>
- C. Self-introductions & attendance sheet.
- D. Verify quorum – voting members (8):

Name	Status	Position
Andy Campbell	Voting	Chair
Adnan Ayub	Voting	Vice Chair/secretary
Gordon Struder	Voting	Member
Heather Sharif	Voting	Member
John Schoen	Voting	Webmaster
Kartik Patel	Voting	Member
M Anderson	Voting	Member
Martin Timm	Voting	Member
Adrienne Thomle	Non-voting	Handbook Liaison
Andreas Hoess	Non-voting	Research Subcom Chair
Gregory Scrivener	Non-voting	Stds Subcom Chair
Gursaran Mathur	Non-voting	Section Head
Satheesh Kulankara	Non-voting	Tac Chairman
Steven Hammerling	Non-voting	Staff Liaison
Wayne Borrowman	Non-voting	Handbook Subcom Chair
WenBin Ng	Non-voting	Research Liaison

Alec Cusick	Non-voting	Corresponding Member
Apichit Lumlertpongpana	Non-voting	Corresponding Member
Bent Wiencke	Non-voting	Corresponding Member
Bruce Griffith	Non-voting	Corresponding Member
Cameron Klein	Non-voting	Corresponding Member
Chengzhi Tang	Non-voting	Corresponding Member
Claude Wilkinson	Non-voting	Corresponding Member
Daniel Dettmers	Non-voting	Corresponding Member
Danny Halel	Non-voting	Corresponding Member
Darrell Peil	Non-voting	Corresponding Member
David Snyder	Non-voting	Corresponding Member
Douglas Reindl	Non-voting	Corresponding Member
Douglas Scott	Non-voting	Corresponding Member
Eric Ramon	Non-voting	Corresponding Member
Eric Smith	Non-voting	Corresponding Member
Gordon Hart	Non-voting	Corresponding Member
Jim Caylor	Non-voting	Corresponding Member
John Gallaher	Non-voting	Corresponding Member
Kathleen Neault	Non-voting	Corresponding Member
Lane Loyko	Non-voting	Corresponding Member
Lorenzo Cremaschi	Non-voting	Corresponding Member
Mark Pearson	Non-voting	Corresponding Member
Robert Neely	Non-voting	Corresponding Member
Roxanne Scott	Non-voting	Corresponding Member
Steven Sanders	Non-voting	Corresponding Member
Willis Brayman	Non-voting	Corresponding Member
Aldo Frias Munoz	Non-voting	Provisional Corresponding Member
Antonio Oliveria	Non-voting	Provisional Corresponding Member
Brad Campbell	Non-voting	Provisional Corresponding Member
Bruce Lindsay	Non-voting	Provisional Corresponding Member
Cameron Klein	Non-voting	Provisional Corresponding Member
Dongmin Jung	Non-voting	Provisional Corresponding Member
Geoffrey Raifsnider	Non-voting	Provisional Corresponding Member
Jonathan Stockton	Non-voting	Provisional Corresponding Member
Joseph De Filippis	Non-voting	Provisional Corresponding Member
Luis Alvarado	Non-voting	Provisional Corresponding Member
Matthew Catan	Non-voting	Provisional Corresponding Member
Naomi Carmeli Shabtay	Non-voting	Provisional Corresponding Member
Nishit Parikh	Non-voting	Provisional Corresponding Member
Omar Youssef	Non-voting	Provisional Corresponding Member
PEDRO STORCK	Non-voting	Provisional Corresponding Member
Taylor Lund	Non-voting	Provisional Corresponding Member

II. Additions and changes to agenda.

III. Review and approval of 2026 Winter Conference draft minutes.

- A. 2026 Winter Conference committee meeting draft minutes have been posted via Basecamp on the TC's website.

IV. Chair's Report.

- A. Six (6) officers, three (3) of whom are voting members.
- B. Eight (8) voting members (VM).
- C. Twenty-six (26) corresponding members (CM).
- D. Sixteen (16) provisional corresponding members (PCM).
- E. Total of fifty (53) members.
- F. **We need a volunteer to serve as Secretary – please contact TC 10.1 Chair if interested.**
- G. **We need a volunteer to serve as Program Subcommittee Chair – please contact TC 10.1 Chair if interested.**

V. Liaison Reports.

- A. Section 10 Head – Gursaran Mathur (SH10@ashrae.net)
- B. Other Societies.
 - 1. ASHRAE 15 (Greg Scrivener).
 - 2. ASME (Jim Caylor).
 - 3. CSA (Wayne Borrowman).
 - 4. IIAR (Eric Smith)
 - 5. Insulation societies:
 - a. NIA (National Insulation Association).
 - i. MICA (Midwest Insulation Contractors Association).
 - ii. Refrigeration.
 - iii. Cryogenic.
 - b. ASTM.

VI. Handbook Subcommittee Report (Wayne Borrowman).

- A. Handbook chapters.
 - 1. Insulation: Chapter 10 (Insulation Systems).
 - 2. Refrigeration: Chapter 1 (Halocarbon), Chapter 2 (NH₃), Chapter 3 (CO₂), Chapter 4 (Overfeed), Chapter 5 (Component Balancing), Chapter 13 (Secondary Coolants), Chapter 45 (Concrete Dams), Chapter 46 (Chemical Industry), Chapter 47 (Cryogenics), Chapter 48 (Ultralow Temperature) and

Chapter 49 (Biomedical Applications) and Chapter 50 (Terminology) were reviewed for the 2026 RHB.

- a. Chapter 1 (Halocarbon).
- b. Chapter 2 (Ammonia) - Ch 3 (Carbon Dioxide) - Ch 5 (Component Balancing).
- c. Chapter 13 (Secondary Coolants)

VII. Research Subcommittee Report.

- A. RP-1703 (Testing the Performance of Vapor Retarder Systems Used with Mechanical Insulation Systems in Below-Ambient Applications) .
 - 1. Co-sponsor with TC 1.8 (lead committee).
 - 2. Charley Petty (lead) and Gordon Hart (contributors).
- B. ~~RP-1721 (Oil Return and Retention in Unitary Split System Gas Lines)~~.
 - ~~1. Co-sponsor with TC 8.11 (lead committee).~~
 - ~~2. Gordon Struder is on PMS.~~
- C. RTAR-1871 (Hygrothermal Modeling of Below Ambient Pipe Insulation Systems in Buildings and Refrigeration).
 - 1. Co-sponsor with TC 1.8 (lead committee).
 - 2. Manfred Kehrner and Gordon Hart are authors.
- D. RTAR-1513 (old) Liquid/Vapor Separation in Vessels.
 - 1. Originated in TC 10.1.
 - 2. Andreas Josef Hoess coordinating effort to revamp this RTAR.
- E. Industrial Heat Pump Design Guide
 - 1. Working group of TC 10.1 and other volunteers
 - 2. Andreas Josef Hoess PTAR developed and submitted.

VIII. Program Subcommittee Report.

IX. Old Business.

- A. Action Items.
 - 1. Update roster and activity forms.

X. New Business.

- A. Status of TC 10.1 ASHRAE Refrigeration Handbook (2026) chapters.
- B. Identify reviewers for ASHRAE Refrigeration Commissioning Guide for Commercial and Industrial Systems.

**XI. Next Meeting: 2027 ASHRAE Winter Conference ~ Chicago, IL
January 23-27, 2026**

1. <https://www.ashrae.org/conferences/ashrae-conferences>
2. Virtual and face-to-face!

XII. Adjourn.