

MINUTES – 2025 Winter Conference
ASHRAE Technical Committee 7.2
HVAC&R Construction & Design Build Technologies
Orlando, Florida
Hilton Orlando, Key Largo B
Sunday, February 9, 2025
10:30AM to 12:00PM EDT

Committee Scope: TC 7.2 is concerned with enhancing the collaboration of Contractors and Design Build Firms with the entire ASHRAE membership to ensure that the relevant research, publications, and educational materials promote the design, construction, and operation of resource efficient buildings.

1. Call to Order/Scope/Introductions
2. ASHRAE Code of Ethics
 - A. *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.*
3. ASHRAE Commitment to Care
 - A. <https://www.ashrae.org/file%20library/conferences/annual%20conference/commitment-to-care.pdf>
4. Voting Member Role Call

Full Name	Present	Absent
Mrs. Elizabeth (Betsey) A Goll, PE (Chair)	X	
Mrs. Heather R Schopplein - Anderson, PE (Vice Chair)	X	
Mr. Ken Golovko		X
Mrs. Elise Kiland, PE (Secretary)	X	
Mr. William Farrell	X	
Mr. Patrick Villaume	X	
Mr. Zachary Alderman	X	

Mr. Wes Davis	X	
Mr. Bryan Holcomb	X	
Mr. Matt Walters	X	

5. Attendees

Name	CM/PM/Guest	YEA	INTL
Elizabeth Goll	Chair		
Elise Kiland	Secretary	Y	
Hether Schopplein	Vice Chair		
Yt-Shu King	CM		
Chad Kirkwood	Guest		
Dihyah Kim	Guest		
Eli Howard	Guest		
Matt Mullen	CM		
William Farrell	VM		
Wes Davis	CM		
Alexander Armstrong	Guest	Y	
Zoey Burger	Guest	Y	
Sigrid Derrickson	Guest	Y	
Daniel Bourque	Guest		Y
Mark Swanson	CM		
Tina Abassi	Guest	Y	
Matt Walters	Research Chair	Y	
Patrick Villaume	Webmaster		
Zach Alderman	VM	Y	
Chris Krieps	Guest	Y	
Awin Taib	Guest	Y	
Joe Tornes	Guest	Y	
Money Khanna	Guest	Y	Y
Mark Baker	PCM		
Mitchell Swann	CM		
Charles Biber	Guest	Y	

6. Review Agenda

- A. Schopplein-Anderson motions to approve.
- B. Alderman seconds
- C. Approved 6-0-3

7. Society Liaisons and Guest Presentations

- A. Schopplein-Anderson asks about RAC funding.
- B. TC Section Liaison Money Khanna
 - i. Big push for YEA member involvement in TCs
 - ii. Goll requests for access to basecamp

8. Approval of Previous Meeting Minutes – Annual 2025

- A. Villaume motions to approve.
 - B. Alderman seconds
 - C. Approved 6-0-3
9. Subcommittees
- A. Programs – Wes Davis
 - i. Submitted for Annual Indianapolis
 - 1. Piping Design
 - a. Villaume submitted but was not accepted.
 - b. Would re-submit.
 - c. Goll can help with a district cooling system.
 - 2. Making Sense of the Outcome
 - a. Swann tomorrow, YEA Focused
 - b. Panel
 - ii. Outstanding submissions – See Annual 2025 Minutes
 - iii. Phoenix (Annual Conference) Program Tracks
 - 1. **Research Summit** - Active research, and the exchange of those research findings, are critical to the development of our HVAC&R industry and environment built.
 - 2. **Workforce Development** - This track is designed to allow those professionals an opportunity to develop in the areas of presentation skills, leadership, team-building, understanding various business operations, interpersonal skills, etc.
 - 3. **Industrial Ventilation, Refrigeration, Air Conditioning and Energy Utilization** - The industry sector accounts for roughly one third of the energy use in the US. Increasing efficiency demands are creating the impetus for new technology, targeted at industrial facilities. This track will explore these technologies and regulatory pressures facilitating them.
 - 4. **Heat Pumps, Refrigerants, and Decarbonization** - Decarbonization is omnipresent and encapsulates many different elements. This track will focus on the development of heat pumps supporting decarbonization efforts.
 - 5. **Onsite Energy Storage** - Papers and programs in this track focus on advances in cost-effective materials and systems, design, optimization and control as well as the integration of

onsite storage in building envelopes or HVAC systems and grid resiliency.

6. **Fundamentals and Applications** track provides opportunities for papers of varying levels across a large topic base. Concepts, design elements and shared experiences for theoretical and applied concepts of HVAC&R design are included.
7. **HVAC&R Systems and Equipment** track focuses on the development of new systems and equipment, improvements to existing systems and equipment and the proper application and operation of systems and equipment.

iv. Ideas for Phoenix

1. Deadline is February 26
2. Eli Howard and Joe Chin can look into contractor workforce development.
 - a. Was declined for Indianapolis, will try to resubmit.
 - b. MP has a push for more contractor involvement.
3. Add technical project award for contractors?
4. Davis has an idea for a program to introduce engineers to design build.
 - a. Panel? Swann and Howard did a discussion in Philadelphia that went well. Villaume agrees.
 - b. How does design build make you a better engineer?
 - c. Kriepps, Walters would be involved.
 - d. Golovko or Schopplein-Anderson can be moderator.
5. To Pre-Fab or not to Pre-Fab?
6. Taiwan Semiconductor is in PHX
 - a. Could be resiliency, interesting putting fabrication facility in a water challenged climate.
 - b. Swann to discuss with TC 9.11 and see if anyone has any contacts.
7. Energy Storage
 - a. Ice storage, battery storage, HHW storage.
 - b. Different schools and campuses looking into this.
 - c. Probably won't be ready for Phx, maybe Vegas?

- d. Villaume to reach out to district energy.
- e. Tentative track for Vegas is Energy Storage and Grid Resilience

v. Las Vegas Tentative Tracks

- 1. Fundamentals and Applications
- 2. HVAC&R Systems and Equipment
- 3. Refr
- 4. Research Summit
- 5. Energy Storage and Grid Resilience
- 6. Pathways to Decarb
- 7. AI
- 8. Advancements in Construction
- 9. Ventilation and IAQ for Healthy Buildings
- 10. Futureproofing Built Environment

- vi. Swann to review ALI Course on Design-Build with Design-Assist and other delivery methods.

B. Standards – David Ballard

- i. No update

C. Handbook – No Handbook Chapter

D. Research – Matt Walters

- i. Let matt know if anyone needs help with research.
- ii. Villaume has a potential project to test polymer piping efficiency and frictional losses

10. Liaisons to other Sub-Committees

A. TC7.01 – Mitchell Swann

- i. They are meeting at 1:30 PM February 9

B. Villaume is going to:

- i. TC 6.6 Service Water Heating Systems meets 4 pm Monday
- ii. TC 6.1 Hydronic Heating Systems and Equipment
- iii. TC 6.2 District Energy

11. Old Business

- A. Review TC Roster/Positions as of July 1, 2025 for 2025-2026

- i. Voting Members
 - 1. Kiland 2026
 - 2. Alderman 2027
 - 3. Charles 2027
 - 4. Adams 2027
 - 5. Davis 2028
 - 6. Holcomb 2028
 - 7. Walters 2029
 - 8. Mullen 2029
- ii. Committee Positions
 - 1. Chair – Schopplein
 - 2. Vice Chair – Kiland
 - 3. Secretary – Villaume
 - 4. Webmaster – Abassi
 - 5. Programs – Davis
 - 6. Research – Walters
 - 7. Standards – Ballard

12. New Business

- A. PCM who wants to be upgraded to CM or guest who wants to be upgraded to PCM reach out to Goll
- B. Schopplein-Anderson mentions a Hansen-Wade Advancing Preconstruction Conference in San Diego May 21-23
 - i. Second conference July 29-31 on Mech/Plumbing Pre-Fab in San Diego

13. Next meeting: June 2025 – Phoenix, AZ

14. Adjournment – Meeting Adjourned 11:23 AM

ASHRAE Code of Ethics
(Approved by ASHRAE Board of Directors January 30, 2013)

1.140.001.1 As members of ASHRAE or participants in ASHRAE committees, we pledge to act with honesty, fairness, courtesy, competence, integrity and respect for others in our conduct.

- A. Efforts of the Society, its members, and its bodies shall be directed at all times to enhancing the public health, safety and welfare.
- B. Members and organized bodies of the Society shall be good stewards of the world's resources including energy, natural, human and financial resources.
- C. Our products and services shall be offered only in areas where our competence and expertise can satisfy the public need.
- D. We shall act with care and competence in all activities, using and developing up-to-date knowledge and skills.
- E. We shall avoid real or perceived conflicts of interest whenever possible and disclose them to affected parties when they do exist.
- F. The confidentiality of business affairs, proprietary information, intellectual property, procedures, and restricted Society discussions and materials shall be respected.
- G. Each member is expected and encouraged to be committed to the code of ethics of his or her own professional or trade association in their nation and area of work.
- H. Activities crossing national and cultural boundaries shall respect the ethical codes of the seat of the principal activity.