

**AGENDA – 2024 Annual Conference**  
**ASHRAE Technical Committee 7.2**  
**HVAC&R Construction & Design Build Technologies**

**Indianapolis, Indiana**

**JW Marriott, 301 (3)**

**Sunday, June 23, 2024,  
10:30AM to 12:00PM EDT**

**Virtual Attendee Link**

**<https://us06web.zoom.us/j/86872766094?pwd=U2ZTuy52hLrcSByC7WQe4gn3Jawq9k.1>**

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

| i. Full Name   | ii. Present | iii. Absent |
|--|-------------|-------------|
| iv. Mrs Elizabeth (Betsey) A Goll, PE (Chair)            | X           | v.          |
| vi. Mrs Heather R Schopplein - Anderson, PE (Vice Chair) | X           |             |

|       |                                  |   |   |
|-------|----------------------------------|---|---|
| vii.  | Mrs Elise Kiland, PE (Secretary) | X |   |
| viii. | Mr Kenneth E Golovko             | X |   |
| ix.   | Mr David L Lewis                 |   | X |
| x.    | Mr Matthew E Mullen              |   | X |
|       | Mr William Farrell               |   | X |
|       | Mr Patrick Villaume              | X |   |
|       | Mr Zachary Alderman              |   | X |

## 5. Attendees

| Name                | Affiliation                             | Email                                | CM/PM/Guest  | YE A | INT L | Attendance |
|---------------------|---|--------------------------------------|--------------|------|-------|------------|
| Elizabeth Goll      | Florida Power & Light                   | flageng@gmail.com                    | Chair        |      |       | In Person  |
| Elise Kiland        | CMI                                     | ekiland@cmihvac.com                  | Secretary    | Y    |       | In Person  |
| Hether Schopplein   | UMEC                                    | hschopplein@umec.com                 | Vice Chair   |      |       | In Person  |
| Wes Davis           | Air Conditioning Contractors of America | wes.davis@acca.org                   | Programs     |      |       | In Person  |
| Shawn Ohara         | SMACNA                                  | sohara@smacna.org                    |              |      |       | In Person  |
| Ken Golovko         | HED                                     | kgolovko@hed.design.com              | CM           |      |       | In Person  |
| Patrik Villaume     | Patterson Kelley                        | patrick.villaume@spx.com             | Webmaster    |      |       | In Person  |
| Bryan Holcomb       | Environmental Air Systems               | bholcomb@easinc.net                  | PCM          |      |       | In Person  |
| Pinjala Sai Sudhir  |   | fnupinjalasaisudhir@inertek.com      | Guest        |      |       | In Person  |
| Mithell Swann       | Resolution Management Consultants       | em.swann@resmgt.com                  | Member       |      |       | In Person  |
| Jessica Iseman      |   | jessica.isean@ghd.com                | Guest        | Y    | Y     | In Person  |
| Money Khanna        |   | khannamoney@gmail.com                | Section Head |      | Y     | In Person  |
| Guillermo Martinez  |   | guiillermo.martinez@polygongroup.com | Guest        | Y    |       | In Person  |
| Anuj Gupta          |   | anuj@design2occupancy.com            | Guest        | Y    | Y     | In Person  |
| Alexander Armstrong |   | aarmstrong@rqconstruction.com        | Guest        |      |       | In Person  |
| Matt Walters        | McKinstry                               | MattDWalters@proton.me               | Research     |      |       | Online     |

## 6. Review Agenda

- A. Villaume motions to approve
- B. Schopplein-Anderson second
- C. Approved 5-0-4

## 7. Society Liaisons and Guest Presentations

- A. TAC Liaison: Money Khanna
  - i. Update your roster!

## 8. Approval of Previous Meeting Minutes – Winter 2024

- A. Schopplein-Anderson motions to approve
  - B. Villaume second
  - C. Approved 5-0-4
9. ASHRAE Administrative/Correspondence/Announcements – NA
- A. GAC is looking for subject matter experts for testifying for different technical content matter and government outreach days
    - i. Specifically localized for certain states - Michigan, Massachusetts, California, etc.
    - ii. Reach out to GAC RVC if interested
  - B. New strategic plan is out, please review and feel free to provide input
    - i. Input is anonymous
10. Subcommittees
- A. Programs – Wes Davis
    - i. Submitted for Annual Indianapolis
      - 1. Pull Planning Session – Heather Chair
        - a. 8 am Sunday, seven attendees
        - b. Was well received, workshop format worked well
        - c. TCs are not notified if program is accepted; potential motion?
    - ii. Outstanding submissions – See Winter 2024 Minutes
    - iii. Orlando (Winter Conference) Program Tracks
      - 1. **Energy Storage and Grid Resiliency** track focuses on advances in cost-effective thermal energy storage materials and systems, integration of thermal energy storage in building envelopes or HVAC systems, and grid resiliency.
      - 2. **Artificial Intelligence, Building Automation, and Controls** track focuses on applications for AI and machine learning technology in building automation and controls to enhance energy efficiency and comfort, cyber security, fault detection, and more.
      - 3. **Pathways to Building Decarbonization** track highlights methods, advancements in technology and policies across the globe being developed to reduce carbon impacts on the global environment.

4. **Future-Proofing the Built Environment** track highlights innovative technologies and strategies across the globe that reimagine our relationship with the built environment now and into the future, including design strategies for extreme climates and weather, appropriate responses to energy supply disruptions, and how these factors are tied to resilience and energy conservation efforts.
5. **Ventilation and Indoor Environmental Quality** track covers topics of ventilation, air distribution systems, and all indoor environmental quality aspects, including noise, vibration, and lighting in residential and commercial buildings.
6. **Industrialized Construction: Opportunities and Challenges** track explores advancements in building construction practices and workforce development, as well as opportunities and challenges associated with conventional and industrialized construction.
7. **Refrigerants and Refrigeration** track explores refrigeration systems, which generate and use cold for a range of processes, from food preparation and conservation to vaccine preservation, to long-term protection of fragile ancient inks of historical documents and others.
8. **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.
9. **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 Orlando

1. Deadline is August 5
2. Swann has a relationship with an owner at Universal who builds projects they run long term; potential topic idea
3. Villaume is working on program on piping design with TC 6.6
  - a. Ambient loops, material selection, layout design
  - b. Looking for a speaker from 7.2 to join

- c. Betsey was involved with a design build project in FL that could be a good case study
  - 4. Golovko has idea on AI with secure projects
    - a. Bigger picture than just HVAC with SAMI
    - b. Could be a forum discussion
    - c. Legal implications of AI meeting transcripts
  - 5. At what point does pre-fab change from construction to a product?
    - a. Products depreciate differently than built systems
    - b. What happens if it doesn't work?
    - c. Need to be clear this is pre-manufactured systems with multiple trades
    - d. Pre-fab needed for short schedule projects like schools being built during summer break
    - e. What about unions who don't allow manufactured products/skids?
    - f. Could be an idea for PHX
    - g. Panel with lessons learned
      - i. Holcomb has experience building these systems
      - ii. Schopplein-Anderson speaking on experience pre-fabbing systems in shop
      - iii. Mfg of systems, owners, installers
  - v. Phoenix and New Topic Ideas
    - 1. Phoenix ideas should be finalized this conference
      - a. Plan a meeting in September
  - vi. ALI Course on Design-Build
- B. Standards – David Ballard
  - i. No update
- C. Handbook – No Handbook Chapter
- D. Research – Jim Fields
  - i. No update – Walters to roll on July 1
- 11. Liaisons to other Sub-Committees
  - A. TC7.01 – Joe Chin / Mitchell Swann
  - B. MTG Effective Building Operations – Betsy Goll

- i. No update, Goll to follow up

## 12. Old Business

### A. Review TC Roster/Positions as of July 1, 2024 for 2024-2025

#### i. Voting Members

1. Goll 2025
2. Schopplein 2025
3. Kiland 2026
4. Alderman 2027
5. Charles 2027
6. Adams 2027
7. Davis 2028
8. Holcomb 2028

#### ii. Committee Positions

1. Chair – Goll
2. Vice Chair – Schopplein
3. Secretary – Kiland
4. Webmaster – Villaume (new)
5. Programs – Davis
6. Research – Matt Walters (Replacing Jim Fields)
7. Standards – Ballard

## New Business

B. Effective Buildings Operation MTG – Meeting Tuesday June 25, 10:00AM-12:00PM

C. TC 6.6 Service Water Heating Systems meets 4 pm Monday

D. TC 6.1 Hydronic Heating Systems and Equipment

E. TC 6.2 District Energy

F. Decarb Task Force

- i. Three 45-min presentations publishing next week on best practices, types of systems, etc

#### ii. Review guidelines as well

13. Next meeting: January 2025 – Orlando, FL

14. Adjournment – Meeting Adjourned 11:36 AM

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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.