

TC 6.1 Hydronic & Steam Heating Equipment and Systems

ASHRAE Winter Conference (Feb 09-12, 2025) in Orlando

HYBRID MEETING

Main Committee Meeting

Tuesday, February 11, 2025
 1:00 pm – 3:00 pm EST
 Room: Hilton Orlando, Lake Eola AB
[Teams Link](#)

Handbook Subcommittee Meeting

Monday, February 10, 2025
 3:00 pm – 5:00 pm EST
 Room: Hilton Orlando, Lake Eola AB
[Teams Link](#)

Research & Programs Subcommittees Meeting

Monday, February 10, 2025
 1:00 pm – 3:00 pm EST
 Room: Hilton Orlando, Lake Eola AB
[Teams Link](#)

TC 6.1 Social Happy Hour

Monday, February 10, 2025
 5:00 pm EST (or whenever
 Handbook Meeting ends)
 FastBreak at Hilton Orlando

Name	Position	Voting Status	Voting Term
Jessica Mangler	Chair	Voting	07/01/2023 – 06/30/2025
Viral Dharaiya	Vice Chair	Voting	07/01/2023 – 06/30/2025
Sarah Hilden	Secretary	Voting	07/01/2024 – 06/30/2026
Jennifer (Jen) Leach	Program Subcommittee Chair	Non-Voting	N/A
Agis Tsouvalas	Research Subcommittee Chair	Non-Voting	N/A
Theodore (Ted) Duffy	Handbook Subcommittee Chair	Voting	07/01/2023 – 06/30/2025
Frank Myers	Standards Subcommittee Chair	Voting	07/01/2021 – 06/30/2025
Mr. Neils Bidstrup	Member Non-Quorum	Non-Quorum Voting	07/01/2020 – 06/30/2025
Lynndy Hedgcoth	Webmaster	Non-Voting	N/A
Rex Scare	Member	Voting	07/01/2023 – 06/30/2026

TC 6.1 SPONSORED OR CO-SPONSORED PROGRAMS FOR ORLANDO

NO SESSIONS APPROVED FOR ORLANDO 2025

1. Chair Welcome (*Jessica Mangler*)

- **Committee Scope:** TC 6.1 is concerned with all aspects of hydronic and steam systems. This includes the application of boilers, chillers, terminal units, and all accessories and controls making up the total system as well as the design of the integrated system. In addition to comfort applications of both heating and cooling, snow melting systems are

included. Cooperation with other TCs is recognized in areas such as control, noise and vibration, refrigeration, pumps, and hydronic and service water piping.

- 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 interests. (See full Code of Ethics: <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>)
- Secretary for the meeting: Sarah Hilden

2. Introductions

- Roll Call of Voting Members (*Viral Dharaiya*)
- Member and Guest Introductions

3. Membership (*Viral Dharaiya*)

- Review Roster Updates
- Quorum Check

4. Review of Meeting Documents (*Jessica Mangler*)

- Approval of Meeting Minutes for 2024 ASHRAE Winter Conference in Chicago
- Review of Agenda

5. TC Chair Report (*Jessica Mangler*)

- Tom Capellin <https://www.sj-r.com/obituaries/pils1034965>

6. TC Communications (*Lynndy Hedgcoth*)

- Website: <https://tc0601.ashraetcs.org/>
- Basecamp: <https://3.basecamp.com/3106353/projects/23183827>

7. Programs (*Jennifer Leach*)

- Report on TC 6.1 sponsored or co-sponsored programs for Indianapolis in June 2024
 - SEMINAR 39: Simplifying the Electrification of Hydronic Systems
- Programs we plan to sponsor or co-sponsor for 2025 Winter Conference in Orlando
 - Tracks: <https://www.ashrae.org/conferences/2025-annual-conference-phoenix/2025-annual-conference-technical-program>
 - Deadline for Seminar proposals: February 26, 2025

8. Research (*Agis Tsouvalas*)

- To be determined.

9. Handbook (*Ted Duffy*)

- HVAC Systems & Equipment
 - Chapter 11 – Steam Systems
 - Chapter 13 – Hydronic Heating and Cooling
 - Chapter 14 – Condenser Water Systems
 - Chapter 15 – Medium and High Temperature Water Heating
 - Chapter 28 – Unit Ventilators, Unit Heaters, and Makeup Air Units
 - Chapter 32 – Boilers
 - Chapter 36 – Hydronic Heat-Distributing Units and Radiators
 - Chapter 44 – Centrifugal Pumps
 - Chapter 46 – Pipes, Tubes, and Fittings

- Chapter 47 – Valves
- Chapter 48 – Heat Exchangers
- Chapter X – Chilled Water Plant Design
- Fundamentals
 - Chapter 22 – Pipe Sizing
- 10. **Standards** (*Frank Myers*)
 - SSPC 90.1
 - SPC 155
 - SSPC 100
- 11. **Task Force for Building Decarbonization** (*Jason Atkisson*)
- 12. **Recognize Liaisons** (*Jessica Mangler*)
 - Handbook
 - Derek Crowe [Chs. 11, 28, 32, 36, 44 & 46]
 - Satish Iyengar [Chs. 13, 14 & 15]
 - Ahmed Medhat [Chs. 47 & new ChW]
 - Research (Stefan Elbel)
 - Standard (Paolo Tronville)
 - Chapter Technology Transfer Committee (CTTC) (Elizabeth Zakelj)
 - TAC Chairman (Craig Messmer)
 - TAC Section Head (Douglas Reindl)
 - Staff (Steve Hammerling)
- 13. **Liaison Reports from other TCs and Organizations** (*Jessica Mangler*)
 - 6.2 – District Energy
 - 6.5 – Radiant Heating & Cooling
 - 6.6 – Service Water Heating
 - 6.7 – Solar and Other Renewable Energies
 - 6.8 – Geothermal Heat Pump & Energy Recovery Applications
 - 6.10 – Fuels and Combustion
 - Residential Building Committee
 - Hydronics Industry Alliance
 - Others?
- 14. **Old Business**
 - Open discussion as time allows.
- 15. **New Business** (*Jessica Mangler*)
 - Open discussion as time allows
- 16. **Adjourn** (*Jessica Mangler*)

ATTACHMENTS:

- Draft Meeting Minutes from 2024 Annual Conference in Indianapolis