

ASHRAE TC 10.2
Refrigeration Applications
ASHRAE 2022 Summer Conference – Meeting Report
TC 10.2 Meeting Minutes June 28th, 2022 12:30 – 2:30 PM PDT (UTC -6)
Sheraton Centre Toronto Hotel - Kent (2) and Virtual (Microsoft Teams)
Tom Wolgamot, Chair

I. Scope:

- a. TC 10.2 is concerned with the application of refrigeration systems for precooling, processing, manufacturing and storage of foods, beverages, and other products, including the understanding and procedures for calculating design and hourly refrigeration loads, as well as system energy usage. This TC includes the application of equipment and systems for ice manufacturing and ice storage, as well as ice skating and curling rinks. This scope excludes walk-in freezers and coolers <3,000 sq. ft. and ice making systems less than five tons of ice per day.

II. Call to order

- a. Chair Wolgamot called the meeting to order at 2:40 PM CDT

III. Roll call

- a. See Appendix

IV. Establish Quorum (bold = present)

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|---|-----------|---------------|
| a. Verify quorum – voting members: | | Voting Term |
| i. Chair Tom Wolgamot | VM | 6/2023 |
| ii. Vice Chair Eric Ramon | VM | 6/2023 |
| iii. Secretary Cam Klein (to be replaced by Wayne Borrowman, effective 7/1/2022) | | |
| iv. Webmaster Cam Klein | | |
| v. Research Doug Scott | VM | 6/2024 |
| vi. Programs Richard Love | | |
| vii. Handbook David Gauvin (formally effective 7/1/2023) | | |
| viii. Standards Greg Scrivener | VM | 6/2022 |
| ix. Art Sutherland | VM | 6/2024 |
| x. John Gallaher | VM | 6/2022 |
| xi. Nick Shockley | VM | 6/2023 |
| xii. Danny Halel | VM | 6/2023 |
| xiii. Kathleen Neault | VM | 6/2024 |
| xiv. Jim Caylor | VM | 6/2023 |
| xv. Cathy Chappell | VM | 6/2025 |

V. Code of Ethics

- a. 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 real or perceived conflicts of interest and behavior that is discriminatory and/or harassing. <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>.

VI. Review and approval of 2022 Winter Conference draft minutes.

- a. Danny Halel motion
b. Jim Caylor second

VII. Liaison Reports.

- a. Section 10 Head – Charles Henck (SH10@ashrae.net).

- b. Research
- VIII. Roster Review
 - a. Doug Scott stepping down from Research subcommittee. Adnan Ayub will step up to this position.
 - b. S.A. Sharif missing from roster – will add him in as a Corresponding Member
 - c. Eric Smith missing from roster – will add him in as a Corresponding Member
 - d. John Scott moving from CM to VM.
 - e. Nick Shockley extending his term as a voting member.
 - f. Art Sutherland no longer a VM, he has resigned his responsibilities.
 - g. John Gallaher rolling off after this meeting.
 - h. Richard Love not able to attend in person, Kathleen Neault will be new Programs chair.
 - i. Bill Stewart has requested to be added as a CM.
 - j. Azam Thatte has requested to be added as a CM.
- IX. Subcommittee Reports
 - a. General committee expectations
 - i. Subcommittees function as true subcommittees
 - 1. Membership
 - 2. Meetings outside of Conferences
 - ii. Will have Common TC Section 10 Research & Programs meeting as the Conferences.
 - b. Handbook – David Gauvin
 - c. Research – Doug Scott
 - i. WS-1915 Refrigerated Warehouse Door Infiltration – submitted.
 - ii. Dock door infiltration – no progress. Note this is a companion with WS-1915, so if 1915 gets approved this would gain priority.
 - iii. Ventilation – no progress on this. No RTAR started. Perhaps look at it as a PTAR application. This is next highest priority item. Adnan Ayub and Doug Scott will discuss offline. Perhaps a design guide is more suitable? You can do a Research Project gathering data then presenting findings, or a PTAR – the outcome is a published guide.
 - iv. Defrost effectiveness. Lots of information but no ARTR. Straightforward research, there is interest out there. Discussed at IIAR – IIAR could co-fund a little bit of it.
 - v. Decarbonization/Electrification. No progress. Increasingly popular topic though. Expect it would get good attention if in right format. This might be more appropriate for 10.1. Jim Caylor put out a call for liaisons to the Society Decarbonization task force, but this didn't go anywhere. Propose removing this topic from the 10.2 and adding to 10.1. Jim Caylor and Doug Scott will discuss further offline.
 - d. Programs – Kathleen Neault
 - i. Decarbonization Topics
 - 1. Sustainability Guide has lots of options
 - 2. A2Ls – updates to Standard 15
 - ii. Back to Basics
 - 1. Dealing with Glide – Nilesh Purohit
 - 2. Sizing evaporator coils/TXVs – Wayne Borrowman
 - e. Standards – Greg Scrivener
 - i. ASHRAE 15
 - 1. Issuing much addenda. 2022 Edition published this fall.
 - f. IIAR – Eric Smith

1. New membership structure. New guideline on integrating critical tasks into facility emergency response plans.
- X. Upcoming Meetings
- a. 2023 ASHRAE Winter Conference February 4-8, 2023 | Atlanta GA
- XI. Other Items (Open Call)
- a. Refrigeration loads
 - i. Concrete floor section is in poor condition. References papers which are not relevant. Greg Scrivener to review further and provide something back to the TC.
 - b. Ventilation requirements in ASHRAE 62.1
 - i. Eric Smith to draft a proposed CMA to send to the 62 and provide to the TC for review.
- XII. Adjournment
- a. Meeting was adjourned at 3:49 PM CDT
 - i. John Scott seconded.
- XIII. Action Items
- a. Eric Smith taking point on Proposed Continuous Maintenance Change for 62.1
 - b. Greg Scrivener will review load calculations chapter for possible changes regarding concrete floors.
 - c. Kathleen Neault to work on Program submission for Atlanta
 - d. Adnan Ayub and Doug Scott to get together and review Research status.
- XIV. Code of Ethics
- a. **"As members of ASHRAE or participants in ASHRAE activities, we pledge to act with honesty, fairness, courtesy, competence, integrity and respect for others in our conduct. We will avoid conflicts of interest and behavior that is discriminatory and/or harassing."**
- XV. 2019–2024 ASHRAE Strategic Plan
- a. **Mission - To serve humanity by advancing the arts and sciences of heating, ventilation, air conditioning, refrigeration, and their allied fields.**
 - b. **Vision - A healthy and sustainable built environment for all.**
 - c. **Values – Excellence, Commitment, Integrity, Collaboration, Volunteerism, Diversity**
 - d. **Goals:**
 - i. **Position ASHRAE as an Essential Knowledge Resource for a Sustainable, High-Performance Built Environment**
 - ii. **Maximize Member Value and Engagement**
 - iii. **Optimize ASHRAE's Organizational Structure to Maximize Performance**
 - e. **Strategic Plan Areas and Initiatives:**
 - i. **Initiative Area: Built Environment of the Future**
 1. **Resilient Buildings and Communities**
 2. **Indoor Environmental Quality**
 - ii. **Initiative Area: Future of ASHRAE**
 1. **Organizational Streamlining**
 2. **Improve Chapter Engagement, Capacity and Support**

APPENDIX A – Attendance Sheet

Name	Status	In Attendance	Location
Tom Wolgamot	Chair – VM	Y	Physical
Eric Ramon	Vice Chair – VM	N	
Doug Scott	VM – Research	Y	Virtual
Greg Scrivener	VM – Standards	Y	Physical
S.A. Sherif	VM	Y	Virtual
Art Sutherland	VM	N	
John Gallaher	VM	Y	Virtual
Nick Shockley	VM	Y	Virtual
Danny Halel	VM	Y	Physical
Kathleen Neault	VM	Y	Physical
Jim Caylor	VM	Y	Virtual
Cathy Chappell	VM	N	
8 of 12 voting members in attendance – quorum achieved			
Adnan Ayub	PCM	Y	Physical
Alfredo Oliveira	PCM	Y	Virtual
Apichit Lumlertpongpana	CM	Y	Virtual
Bill Kumpf	CM	Y	Virtual
Chengzhi Tang	Guest	Y	Virtual
Don Cleland	CM	Y	Virtual
Eric Smith	Guest	Y	Physical
Kaimi Gao	Guest	Y	Virtual
Cameron Klein	NVM – Secretary, Webmaster	Y	Virtual
Michael Petersen	PCM	Y	Physical
Nilesh Purohit	PCM	Y	Physical
SA Sharif	CM	Y	Virtual
Mike Saunders	Guest	Y	Virtual
John Scott	CM	Y	Physical
Wayne Borrowman	PCM	Y	Physical
Trevor Jones	PCM	Y	Physical
Sam Doyle	Guest	Y	Physical
Charlie Henck	Section Head	Y	Physical
David Gauvin	CM, Handbook	Y	Physical