



Draft Agenda
ASHRAE TC 4.7 Energy Calculations - Main Meeting
6/27/2023 Tampa Summer Meeting
4-6:30 PM ET
Hybrid: Tampa Marriott Waterside, Meeting Room 5 (2) onsite, Link
below for online
Chair: Neal Kruis (neal.kruis@bigladdersoftware.com)

[MOTION]

1. XX moves to approve meeting minutes from Atlanta. XX seconds. Approved #-#-# CNV.
2. XX moved to adjourn. XX seconded.

[ACTION]

- 1.

Connection Instructions

Call to Order & Introductions (10 min, Kruis) 4:00

Review Code of Ethics Commitment (1 min, Kruis) 4:10

Call of Voting Members (3 min, H. Kim) 4:11

5 VMs: Quorum achieved.

Accept agenda & approve 2023 Winter meeting minutes (2 min, Kruis) 4:14

Review TC 4.7 Title & Scope (4 min Kruis) 4:16

Basecamp (5 min, Kruis) 4:20

Membership (10 min, Kruis) 4:25

Announcements/Liaisons (10 min, Kruis) 4:35

Subcommittee Reports (62 min) 4:45

Standards (15 min, Neymark) 4:45

Honors, Awards, and History (5 min, Haberl) 5:00

Website (2 min, J. Kim) 5:05

Handbook (5 min, Baltazar) 5:07

Program (10 min, Kastl) 5:12

Research (10 min, McDowell) 5:22

Simulation and Component Models (5 min, Ball) 5:32

Data-Driven Modeling (5 min, Smith) 5:37

Multiscale Building Energy Modeling (5 min, Judkoff) 5:42

Related Activities Reports (15 min) 5:47

New Business (5 min) 6:02

Adjourn (H. Kim) 6:07

Executive Session (H. Kim, 15 min) 6:12

[Appendix A: Upcoming Meetings](#)

[Appendix B: Resources](#)

Connection Instructions

JOIN WEBEX MEETING

<https://ashrae.webex.com/ashrae/j.php?MTID=mb9319cbd11407af23b1b261e72e5591f>

Call to Order & Introductions (10 min, Kruis)

4:00

- Neal Kruis, Chair
- Hyojin Kim, Vice-Chair
- John Pruett, Secretary
- Juan Carlos Baltazar, Handbook Chair
- Brian Kastl, Program Chair
- Tim McDowell, Research Chair
- Joel Neymark, Standards Chair
- Jeannie Kim, Webmaster
- Ron Judkoff, Multi-scale Building Modeling Subcommittee Chair
- James McNeill, Data-driven Modeling Subcommittee Chair
- Brian Ball, Simulation and Component Models Subcommittee Chair
- Jeff Haberl, Honors, Awards, and History Subcommittee Chair
- Ralph Muehleisen, Web/Hybrid Meeting Guru

Review Code of Ethics Commitment (1 min, Kruis) 4:10

In this and all other 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 we shall avoid all real or perceived conflicts of interests.

Call of Voting Members (3 min, H. Kim) 4:11

5 VMs: Quorum achieved.

Present?	Last	First	Term Ends	Company	Email
	Miller	Clayton	2025	Nat. U. of Singapore	clayton@nus.edu.sg
	Crawley	Dru	2024	Bentley	dru.crawley@bentley.com
	Fontanini	Anthony	2026	NREL	anthony.fontanini@nrel.gov
	Haberl	Jeff	2024	Texas A&M	jhaberl@tamu.edu
	Kim	Hyojin	2026	NJIT	hyojin.kim@njit.edu
	Kruis	Neal	2024	Big Ladder	neal.kruis@bigladdersoftware.com

	Pruett	John	2026	ZMM	jap@zmm.com
	Rao	Sagar	2023	AEI	sagar.rao@outlook.com
	Wang	Liping	2025	U. of Wyoming	lwang12@uwyo.edu

Accept agenda & approve 2023 Winter meeting minutes (2 min, Kruis) 4:14

[Motion 1] XX moves to approve. XX seconds. Approved #-#-# CNV

Review TC 4.7 Title & Scope (4 min Kruis/Crawly) 4:16

Title: TC 4.7 Energy Calculations

Scope: TC 4.7 identifies, evaluates, develops, and recommends procedures for calculating energy performance of the built environment.

Basecamp (5 min, Kruis) 4:20

All correspondence through Basecamp. Many roster members are not on Basecamp.

Membership (10 min, Kruis) 4:25

- Changes in TC 4.7 Leadership
 - DDM Chairs: McNeill & Wang
 - SCM Vice Chair: Lee
- Voting Members
 - Rao rolling off in June
 - DeGraw rolling on in July
 - Wang stepping down due to conflict
- Corresponding Membership
 - Attendance sheet has been updated:
 - “Not on Roster”, you have not applied to join the TC (or name on attendance sheet doesn’t align with the roster)
 - If you’ve been attending regularly, and would like to be promoted to CM, indicate on the attendance sheet, or contact the Chair
- Succession plans for Subcommittee Chairs

Announcements/Liaisons (10 min, Kruis) 4:35

- TAC Section 4 (Pat Marks)
- Research (Dennis Landsberg)
- Handbook (Jeff Boldt)
- Task Force for Building Decarbonization (Dru Crawly)

Subcommittee Reports (62 min) 4:45

Standards (15 min, Neymark) 4:45

- 140: Method of Test for Evaluating Building Performance Simulation Software
- 205: Representation of Performance Data for HVAC&R and Other Facility Equipment
- 209: Energy Simulation Aided Design for Buildings Except Low-Rise Residential Buildings
- 229: Protocols for Evaluating Ruleset Application in Building Performance Models
- 232: Common Content and Specifications for Building Data Schemas

Honors, Awards, and History (5 min, Haberl) 5:00

Website (2 min, J. Kim) 5:05

- <https://tc0407.ashraetcs.org/>

Handbook (5 min, Baltazar) 5:07

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Multiscale Building Energy Modeling (5 min, Judkoff) 5:42

Merger of SCM/MBEM Sucommittees (15 min, Kruis) 5:47

Related Activities Reports (15 min) 6:02

- Standard 90.1
- TC 4.1
- TC 4.2

- TC 4.4
- TC 4.10
- TC 7.6
- Guideline 14
- MTGs (need new liaison to MTG.BIM)
- IBPSA-USA
- IBPSA-World
- Modelica
- Others?

New Business (5 min) 6:17

Adjourn 6:22

Appendix A: Upcoming Meetings

- Jan 20, 2024 - Chicago, IL
- June 22, 2024 - Indianapolis, IN
- Feb 8, 2025 - Orlando, FL
- June 21, 2025 - Phoenix, AZ
- Jan 31 - Feb 4, 2026 - Las Vegas, NV

Appendix B: Resources

- ASHRAE's Research Proposal Process:
 - <https://www.ashrae.org/file%20library/technical%20resources/research/ashrae-research-flowchart-r6.pdf>
- ASHRAE Acronym Guide:
 - https://www.ashrae.org/file%20library/about/marketing/final_ashrae-acronyms.pdf
 - Common Acronyms:
 - Research:
 - RTAR: Research Topic Acceptance Request
 - PTAR: Publication Topic Acceptance Request
 - WS: Work Statement
 - RP: Research Project
 - RAC: Research Administration Committee
 - Program:
 - CEC: Conferences and Expositions Committee
 - Standards:
 - SPC: Standard Project Committee
 - SSPC: Standing Standard Project Committee

- SPLS: Standards Project Liaison Subcommittee (of Standards Committee)
 - MOP: Manual of Procedures
 - SH: Section Head
 - YEA: Young Engineers in ASHRAE
- 4.7 Committee Home Page:
 - <http://tc0407.ashraetcs.org/>
- 4.7 BaseCamp Page:
 - <https://3.basecamp.com/3106353/projects/8174587>