



Draft Agenda

ASHRAE TC 4.7 Energy Calculations - Main Meeting

6/25/2024 Indianapolis Summer Meeting

4-6:30 PM ET

Hybrid: JW Marriott, 305 (3) onsite, Link below for online

Chair: Neal Kruis (neal.kruis@bigladdersoftware.com)

JOIN MEETING REMOTELY

https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZGY2NTZmNmEtYjk2ZC00YThiLTk0M2QtNjQzYmRmODI0NDY0%40thread.v2/0?context=%7b%22Tid%22%3a%220cfca185-25f7-49e3-8ae7-704d5326e285%22%2c%22Oid%22%3a%22f7c57e31-4772-40b2-8487-e1874634f92a%22%7d

[4:00 \[15 min\] Call to Order & Introductions \(Kruis\)](#)

[4:15 \[1 min\] Review Code of Ethics Commitment \(Kruis\)](#)

[4:16 \[4 min\] Call of Voting Members \(H. Kim\)](#)

[4:20 \[5 min\] Approve Agenda & Past Minutes \(Kruis\)](#)

[4:25 \[5 min\] Announcements/Liaisons \(Kruis\)](#)

[4:30 \[5 min\] TC 4.7 Title & Scope Update \(Kruis\)](#)

[4:35 \[2 min\] Basecamp \(Kruis\)](#)

[4:37 \[5 min\] Membership \(Kruis\)](#)

[4:42 \[13 min\] Website \(J. Kim\)](#)

[4:55 \[64 min\] Subcommittee Reports](#)

[4:55 \[15 min\] Standards \(Neymark\)](#)

[5:10 \[5 min\] Honors, Awards, and History \(Haberl\)](#)

[5:15 \[8 min\] Handbook \(Baltazar\)](#)

[5:23 \[10 min\] Program](#)

[5:33 \[10 min\] Research \(McDowell\)](#)

[5:43 \[8 min\] Physics-Based Modeling \(Lee\)](#)

[5:51 \[8 min\] Data-Driven Modeling \(McNeill\)](#)

[5:59 \[10 min\] Related Activities Reports](#)

[6:09 \[6 min\] New Business](#)

[6:15 Adjourn](#)

[Appendix A: Upcoming Meetings](#)

[Appendix B: Resources](#)

4:00 [15 min] Call to Order & Introductions (Kruis)

- 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, Physics-Based Modeling Subcommittee Chair
- James McNeill, Data-Driven Modeling Subcommittee Chair
- Jeff Haberl, Honors, Awards, and History Subcommittee Chair
- Ralph Muehleisen, Web/Hybrid Meeting Guru

4:15 [1 min] Review Code of Ethics Commitment (Kruis)

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.

4:16 [4 min] Call of Voting Members (H. Kim)

Present?	Last	First	Term Ends	Company	Email
	Miller	Clayton	2025	Nat. U. of Singapore	clayton@nus.edu.sg
	Crawley	Dru	2024	Bently	dru.crawley@bentley.com
	DeGraw	Jason	2027	ORNL	jason.degraw@gmail.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
	Kim	Jeannie	2027	Argonne National Lab	jihyun.kim@anl.gov
	Kruis	Neal	2024	Big Ladder	neal.kruis@bigladdersoftware.com
	Pruett	John	2026	ZMM	jap@zmm.com

4:20 [5 min] Approve Agenda & Past Minutes (Kruis)

[2024 Chicago Winter Minutes](#)

4:25 [5 min] Announcements/Liaisons (Kruis)

- TAC Section 4 (Kyle Glusenkamp)
- Research (Dennis Landsberg)
- Handbook (???)

4:30 [5 min] TC 4.7 Title & Scope Update (Kruis)

Title: TC 4.7 Building Energy Modeling

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

4:35 [2 min] Basecamp (Kruis)

All correspondence through Basecamp. Contact Chair to be added.

4:37 [5 min] Membership (Kruis)

- Changes in TC 4.7 Leadership
 - Chair: H. Kim
 - Vice Chair: Pruett
 - Secretary: Baltazar
- Voting Members
 - Rolling off in June 2024:
 - Kruis
 - Haberl
 - Crawley
 - Rolling on in July 2024:
 - Neymark
 - Taylor
 - Baltazar
- 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

4:42 [13 min] Website (J. Kim)

4:55 [64 min] Subcommittee Reports

4:55 [15 min] Standards (Neymark)

- 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

5:10 [5 min] Honors, Awards, and History (Haberl)

5:15 [8 min] Handbook (Baltazar)

5:23 [10 min] Program

5:33 [10 min] Research (McDowell)

5:43 [8 min] Physics-Based Modeling (Lee)

5:51 [8 min] Data-Driven Modeling (McNeill)

5:59 [10 min] Related Activities Reports

- TC 4.1: Load Calculation Data and Procedures
- TC 4.2: Climatic Information
- Other TCs?
- Standard 90.1: Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings
- Guideline 14: Measurement of Energy, Demand and Water Savings
- Other Standards/Guidelines?
- MTG.RES (DeGraw)
- IBPSA-USA
- IBPSA-World
- [CalBEM](#)
- Modelica
- ASHRAE Conference for Integrated Design, Construction & Operations (CIDCO)
- Others?

6:09 [6 min] New Business

6:15 Adjourn

Appendix A: Upcoming Meetings

- Feb 8, 2025 - Orlando, FL
- June 21, 2025 - Phoenix, AZ
- Jan 31 - Feb 4, 2026 - Las Vegas, NV
- June 27 - July 1, 2026 - Austin, TX

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>