

ASHRAE TC 2.6 Sound and Vibration

Main Committee Meeting Minutes

2:30-4:30 PM CST, Monday January 22, 2024

Chicago, IL Conference

NOTE: All Task Group Chairs and Subcommittee Chairs are asked to submit written report to the Secretary (Paul Bauch) before Friday January 26th, 2024

1. Call to order CHAIR

2. Introduction of those present VICE-CHAIR

3. Review Scope
TC 2.6 is concerned with the fundamental scientific and engineering principles of sound and vibration, particularly as applied to the design and performance of the built environment.

4. ASHRAE Code of Ethics Commitment CHAIR
"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 ASHRAE Code of Ethics: <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>

5. Introductions ALL SECRETARY
a. Determination of a quorum
VOTING MEMBERS FOR THIS MEETING (Need (6) or $\frac{1}{2}+1$ for a Quorum)

Paul Bauch	06/30/2026	Matthew Golden	06/30/2025
Brandon Cudequest	06/30/2026	Robert Hassler	06/30/2025
Kay Hatlestad	06/30/2026	Viken Koukounian	06/30/2027
Michael Dick	06/30/2026	Karl Peterman	06/30/2027
Edgar Duroni	06/30/2027	Jeremy Stockmans	06/30/2024

11 members, 7 members present.

6. Agenda additions ALL

7. Chair's Report BAUCH
a. Robust attendance in the monthly meetings
b. Announcements from Chair's meeting
i. Largely focused on roster/administrative procedures. Some discussion on government and legislature. Paul briefly discussed the Global Technical Interaction Committee (GTIC)

8. ASHRAE Liaisons
a. Section Head – Lan Chi Nguyen Weekes
b. Research – Chris Gray
c. Standards – William Walter
d. Staff – Steven Hammerling
e. Publications – Caroline Calloway (Fundamentals), Joe Sanders (Applications)

9. Subcommittee reports (Written reports to be provided to Secretary)
a. Research MEEUWSEN
i. Research Chair's meeting report

ii. Work Statements/RTAR's/URP's

- RTAR 1919 – The Effects of Duct Size and Aspect Ratio on Flow Noise in Elbows (Brandon C)
 - Contract awarded to VibroAcoustics, Karl Peterman principal investigator.
- RP 1852 – Speech Privacy Research Project (Roderick)
 - PMS will request a no-cost extension. Motion and vote to approve. Erik Miller Klein 1st, Jeremy Stockmans 2nd, Vote passed, 6 yes, 0 no, 1 abstain, 2 absent
- RTAR 1882 - Procedure for Estimating Occupied Space Sound Levels in the Application of UFAD Air Terminals and Air Outlets (Nick Searle)
 - A work statement was approved by TC's and submitted to RAC, but there was a request for clarifications from our RAC Liaison.
 - We will need to revise the WS and resubmit for TC votes before submitting to RAC again.
- PTAR-001 - Update of ASHRAE Publication: Application of Manufacturers' Sound Data
 - PTAR approved by RAC, work statement under development.
 - Steve Wise is lead author. Chapter development is largely complete. A work statement was submitted to the RAC liaison for review.

iii. Topics for future research

iv. Greg is retiring. Steve Wortmann will become the new Research Chair.

b. **Programs**

SWAN

- i. Gave overview of program types
- ii. This meeting: One program accepted: Seminar 52: From Laboratory to Ratings to Field (Wednesday 8:00am)
- iii. Next meeting Indianapolis (June 2024): Discussed programs to submit. Abstracts due 26 February 2024
 - **Rooftop Systems** (Peterman), possibly presented with TC 2.7
 - Latest in noise/vibration legislation and standards (Miller-Klein)
 - [back-up?] Acoustics metrics/**noise calculations** and when to use them (Miller-Klein)?
- iv. Upcoming meetings: Orlando (January 2025), Phoenix (June 2025), Las Vegas (Jan/Feb 2026): Determine potential presentations
 - Latest research (Miller-Klein)
 - Silencers (LaForgia)
 - Combined session? (Miller-Klein): **Air distribution systems / Fan boxes: above ceilings/below floor / Speech Privacy in Low Noise Offices?**
 - Updated vibration isolation table (Wise/Miller-Klein)

c. **Publications**

WISE

- i. Handbook chapters
 - Fundamentals Chapter Draft needs Approval Vote.
 - Group agreed to conditionally approve the vote. Needs another review or two, preferably an academic. David Herrin agreed to give it a read.

- Vote passed 7 yes, 0 no, 0 abstain, 2 absent
 - Patrick Marks indicated that a revote will need to occur at the time of the final draft
- ii. Joint Booklet (Practical Guide and Application of Manufacturers' Data)
- After meeting with Cindy, ASHRAE will be able to do a lot of the work (formatting, margins, photo size, etc.). We now have a clearer sense for what the hired editor will need to do (Come in with a less than expert understanding and make sure it's layman compatible, create a common voice, and be responsible for graphics).
- iii. Other publications
- d. **Web site** **ACOSTA**
- e. **Standards Subcommittee** **BRIDGER**
- i. ASHRAE
- PMP (ASHRAE G45P) first draft will be available this week. Outline of how to assess buildings
 - Standard 189.1 – Not much movement lately
- ii. Other Standards Organizations
- AHRI (Bauch/Marks) – Derrick mentioned a standard on Heat Pump Water heaters
 - AMCA (Brooks) – Sound Intensity for Fans
 - ASA/ANSI (Reuter)
 - ASTM E33 (Lilly/Shaffer) – Measurement procedure for residential space. Potential for standard on insertion loss of duct lagging.
 - ISO
 - WELL / LEED / ICC
- f. **Standing Subcommittees** **Miller-Klein**
- i. Vibration Isolation
- g. **Operations Subcommittee** **Bauch**
- i. Honors and awards
- Gift was presented to Greg M for his service
 - Patrick Marks was nominated for Director at Large
- ii. Long range planning
- iii. Membership
- Rolling off: Jeremy Stockmans
 - Rolling on: TBD
- iv. Liaisons
- ASHRAE TC 2.1 Physiology and Human Environment (Eichelberger)
 - ASHRAE TC 2.7 Seismic, Wind and Flood Resistant Design (Waters)
 - ASHRAE TC 5.1 Fan Design and Application (Osborn)
 - ASHRAE TC 5.2 Duct Design (Hassler)
 - ASHRAE TC 5.3 Room Air Distribution (Zimmerman)
 - ASHRAE TC 9.6 Healthcare (Koukounian)
 - ASHRAE TC 9.7 Educational Facilities
 - ASHRAE TC 9.8 Indoor Agriculture

- ASA (Reuter) – At the 2025 Meeting in New Orleans there will be a “Day of ASHRAE” Looking for volunteers to give papers. Paul Bauch indicated interested. Rob Miller from Threshold indicated interest.
- VISCMA (Waters)
- Others: INCE/InterNoise (Golden), NCAC (Bridger), EGSA (Simmons), etc...

10. New/Old Business

- a. Training and Education Committee – The Acoustics training course has not been given over the past four years. Curt seems to think the length (3-day course) was the reason. Curt proposed that once the new joint publication booklet is done that a working group create a new training course. The target audience is mechanical engineers.

11. Next Meeting

- a. Monthly Virtual Meeting: Thursday March 7, 2024, 11:00AM – 12:00PM EDT
- b. Annual Conference: Indianapolis, IN June 22-26, 2024

12. Adjourn