

ASHRAE Technical Committee 5.12: Ventilation Requirements & Infiltration

2004 WINTER MEETING AGENDA

Monday, January 26, 2004, 4:15-6:30 pm
Anaheim Marriott, Grand Ballroom Salon G

Subcommittee Meetings:

Handbook: Sunday, January 25, 5:00-6:00 pm, Hilton, Huntington B (4)

Program: Sunday, January 25, 6:00-7:00 pm, Hilton, Huntington B (4)

Research: Monday, January 26, 2:15-4:15 pm, Anaheim Marriott, Grand Ballroom Salon G

Scope: *TC 5.12 is concerned with ventilation, infiltration, airflow around buildings, and the reentry of exhausts, including their interactions with indoor air quality, HVAC system performance, and energy consumption.*

1. Welcome & Introductions

- Voting members sit at the table; all sign the attendance list, and include contact data
- TC web site: <http://hvac.arce.ukans.edu/ashrae/tc4.03/main.htm>

2. Attendance & Quorum Check

Voting members for this meeting: *Boome, Carter, Emmerich, Lstiburek, Medina, Modera, Reardon, Taylor, Walker, Zhang, Liddament (IM), Olesen (IM)*

(quorum > 1/2 all VM, excl. IM; super maj. $\geq 2/3$ VM present; simple maj. > 1/2 VM present)

3. Approval of Kansas City Meeting Minutes (posted at TC web site)

4. Announcements & Liaisons

- Society liaisons (TAC *Int-Hout*, RAC *Webb*, Handbook *Rock / Carscallen*, etc.)
- Section 5 meeting announcements (*Reardon*)
- ALI: ASHRAE Learning Institute (*Boome*)
- EHC: Environmental Health Committee (*Cardenal*)
- ARTI: Air-Conditioning & Refrigeration Technology Institute (*Emmerich*)

5. Subcommittee Reports

a. Research (*Walker*):

- Active Research:
 - “Heat Transfer During Residential Infiltration/Exfiltration”
1169-RP (PMS: *Reardon/Griffiths/Medina*) Additional no-cost extension req'd.
 - “Indoor Environmental Effects on the Performance of School Work by Children”
1257-TRP (PMS: *Sipes/Reardon/Federspiel*)
- Long-Range Research Plan (LRRP):
 - 1) “The Effect of Ganging on Pollutant Dispersion from Building Exhaust Stacks”
1167-WS (PES: *Chen/Kato/Ratcliff*) Contractor recommended in KC
 - 2) “Multiple Space Effects on Ventilation System Efficiency in Standard 62”
1276-WS (PES: *Taylor/Wray/Reardon*) PES recommendation from 2nd round.
 - 3) “Dilution and Normalized Concentration Design Criteria for Laboratory Exhaust”
(*Petersen*)
 - 4) “Simplified Procedure for Calculating Exhaust/Intake Separation Distances”
(*Wilson/Taylor/Carter/Petersen*)
 - 5) “Minimum Acceptable Dilution of Commercial Kitchen Exhaust”
(*Carter/Cardenal/Ratcliff/Wyon*) RTAR revision.
 - 6) “Occupant and Building Factors for Determining Ventilation Rates in Offices”
(*Taylor/Fisk*)

- 7) “Characterization of Infiltration and Ventilation in Mid- and High-Rise Multifamily Buildings” (*Emmerich/Reardon/Hill*)
 - Ventilation requirement and infiltration issues in hot/humid climates (*Zhang*)
 - Other research ideas
 - b. Program (*Weston*):
 - Plan:
 - Proposed:
 - Symposia: “Airflow Around Buildings”, “Air Leakage Performance for Non-Residential Buildings”, “Infiltration Heat Recovery”
 - Seminars: “Chapter 43”, “What Should be in the 62.2P Companion Guideline?”, “Evaluation of CFD for Modeling External and Internal Flows”, “Residential Ventilation Design”
 - Forums: “62.1 Issues”
 - Additional program ideas:
 - c. Handbook (*Carter*):
 - Society-wide Handbook series rewrite
 - 2005 Fundamentals Special Review
 - Building Air Intake and Exhaust Design, 2007 Applications (*Carter*)
 - Airflow Around Buildings, 2005 Fundamentals (*Petersen*)
 - Ventilation and Infiltration, 2005 Fundamentals (*Walker*)
 - ALI “Building Air Intake and Exhaust Design” Course (*Petersen/Boome*)
 - d. Standards (*Emmerich*):
 - TC 5.12 is the cognizant TC for:
 - 62-2001/SSPC 62.1, Ventilation for/and Acceptable IAQ (in Commercial, Institutional, and High-Rise Residential Buildings)
 - SPC 62.2-2003, Ventilation and Acceptable IAQ in Low-Rise Residential Buildings
 - 119-1988 (RA94), Air Leakage Performance for Detached Single-Family Residential Buildings
 - 136-1993 (RA01), A Method of Determining Air Change Rates in Detached Dwellings
 - SPC 161P (CoC, TC 9.3 is Lead), Air Quality Within Commercial Aircraft
 - Others of interest:
 - 129-1997 (TC 5.3), Measuring Air Change Effectiveness
 - SPC 152P (TC 6.3), MOT ... Residential Thermal Distribution Systems
 - ETS Design Guide
 - e. Honors (*Cardenal*):
 - Membership upgrades (associate member to member, fellow, life, etc.)
 - Distinguished Service Award (15 pts.), Exceptional Service Award (45 pts.)
 - Other honors & awards
- 6. Old Business**
- Technical Bulletins/FAQs (*McIvor*)
- 7. New Business**
- 2004-2005 Roster Changes: rollovers, new members,
- 8. Adjourn**
- Next meeting: June 28, 2004, ASHRAE Annual Meeting, Opryland Hotel, Nashville, Tennessee