

ASHRAE Technical Committee 5.12: Ventilation Requirements & Infiltration
2005 ANNUAL MEETING AGENDA

Monday, June 27, 2005, 4:15-6:30 pm
Adam's Mark Denver, Tower Court C

Subcommittee Meetings:

Handbook: Sunday, June 26, 2005, 5-6 pm, Adam's Mark Denver, Plaza Suite 3554 (5th floor)
Program: Sunday, June 26, 2005, 6-7 pm, Adam's Mark Denver, Plaza Suite 3554 (5th floor)
Research: Monday, June 27, 2005, 2:15-4:15 pm, Adam's Mark Denver, Tower Court C
PMS 1167-RP, Sunday, June 26, 2005, 4-5 pm, Adam's Mark Denver, Plaza Suite 3554 (5th floor)

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 please sign the attendance list and include contact data
- TC web site: <http://tc512.ashraetcs.org/>
- Distribution of agenda & minutes package

2. Attendance & Quorum Check

Voting members for this meeting: *Carter, Emmerich, Griffiths, Medina, Modera, Reardon, Stathopoulos, Taylor, Walker, Liddament (IM), Olesen (IM) (scheduled to roll-off after 2005 Annual Meeting)*

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

3. Approval of Orlando Meeting Minutes (distributed at this meeting)

4. Announcements & Liaisons

- Society liaisons (TAC *Int-Hout*, RAC *Kohloss*, Handbook 2005-*Conway*/2007-*Rock*, Standards *Hogan*, Program *Brambley*, Education *Hydeman*, CTTC *Circosta*, Spec.Pubs *Ferguson*, etc.)
- Section 5 Chairs breakfast 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:
 - “The Effect of Ganging on Pollutant Dispersion from Building Exhaust Stacks”
1167-WS (PMS: *Chen/Kato/Ratcliff*). PMS report.
 - “Heat Transfer During Residential Infiltration/Exfiltration”
1169-RP (PMS: *Reardon/Griffiths/Medina*) PMS report. Technical paper status.
 - “Indoor Environmental Effects on the Performance of School Work by Children”,
1257-TRP (PMS: *Sipes/Reardon/Federspiel*) PMS report at TC2.1 Research Subcommittee Meeting Sunday, 26 June 2005, 3:00-5:00PM.
 - “Multiple Space Effects on Ventilation System Efficiency in Standard 62”
1276-WS (PMS: *Taylor/Wray/Reardon/Emmerich*) PMS report.
- Long-Range Research Plan (LRRP) revision for submission August 01, 2005:

- Other research ideas:
 - Work Statements are requested on SARS from TCs 2.4, 5.12, 9.6 & 9.12 by Tech Council’s Ad Hoc committee of Hermans, Halstrom, Persily
 - Tech Council has referred to TC 5.12 the Regions Council motion that ASHRAE contract for research on effectiveness of reduced classroom ventilation rates based on the North Carolina Building Code’s claimed lack of problems at 7.5 cfm per person.
 - The California Air Resources Board (ARB) announced Nov 10, 2004 the release of RFP 04-310, titled "Ventilation and Indoor Air Quality in New Homes", Bob Aldrich.
- Relevant research of other TCs:
 - TC 1.2, RTAR-04-0102-01350 “Measurements of Air Change Rates in Occupied Homes” – accepted by RAC, Oct 2004.
 - TC 5.2, RTAR-04-0502-01369 “Snow Penetration at Louvers” – returned by RAC, Oct 2004.
 - TC 5.3, RTAR-04-0503-01373 “Air-change Effectiveness with Stratified Air Distribution Systems” – accepted by RAC, Oct 2004.
 - TC 2.2 , Jianshun Zhang, CM serving as TC 5.12 liaison and representative on PES/PME for 1301-TRP “Quantification of Ventilation Effectiveness for Air Quality Control in Plant and Animal Environment“
- b. Program (Griffiths):
 - Denver, Forum 9 “Should Standards 119,136 and 129 Be Adopted into Codes?” (*Blatt*) Sunday 26 June 2005 11:15-12:05 AM
 - Denver, Forum 13 “Can You Design an Exhaust Stack Using the Building Air Intake and Exhaust Design Chapter of the HVAC Applications Handbook?” Sunday 26 June 2005 2:00-2:50 AM (*Carter*)
 - Denver, Forum 32 (SSPC 62.2 co-sponsor) “What Should Be in the 62.2 Companion Guideline?”, Wednesday 29 June 2005 11:15-12:05 PM (*Emmerich*)
 - Proposed or planned program elements for:
 - Chicago – January 14-18, 2006
 - Quebec City – June 24-28, 2006
 - Symposium “Design for ETS in Hospitality Facilities” (*Wray*)
 - Symposium “Innovation and Advances in Integrated Building Design” (*Haghighat*)
 - Dallas – February 10-14, 2007
 - Long Beach – June 23-27, 2007
 - Other:
 - Symposia: “Airflow Around Buildings”, “Air Leakage Performance for Non-Residential Buildings”, “Infiltration Heat Recovery”, “Ventilation in Hot and Humid Climates”
 - 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”, “62.2 Issues”, “What should be in 62.2 Users Guide?”
 - Additional program ideas:
- c. Handbook (Carter):
 - Society-wide Handbook series rewrite - update
 - 2005 Fundamentals Special Review - update

- Building Air Intake and Exhaust Design (AHRN-43), 2007 Applications (*Carter*) status.
- Airflow Around Buildings (AHRN-70), 2009 Fundamentals status.
- Ventilation and Infiltration (AHRN-80), 2009 Fundamentals status.

d. Standards (*Emmerich*):

- TC 5.12 is the cognizant TC for:
 - 62.1-2004/SSPC 62.1, Ventilation for Acceptable IAQ (in Commercial, Institutional, and High-Rise Residential Buildings)
 - 62.2-2004/SSPC 62.2, Ventilation and Acceptable IAQ in Low-Rise Residential Buildings
 - 119-1988 (RA05), 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 – update (*Persily PMS Chair/Rock PI*)
- New standards ideas:
 - ASHRAE Standard on Evaluating Energy Efficient Buildings – inaugural mtg. in Orlando, chaired by Gerald Kettler (Chair TC 7.9).
 - Proposed new standards policy being deliberated in SAC involves Stds 62 explicitly.

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 (*Reardon*)
- other

7. New Business

- 2005-2006 Roster Changes: rollovers, new members, subcommittee assignments, etc.
- other

8. Adjourn

- Next meeting: January 16 (early), 2006, ASHRAE Annual Meeting, Chicago, IL