

ASHRAE Technical Committee 5.12: Ventilation Requirements & Infiltration
2004 ANNUAL MEETING AGENDA

Monday, June 28, 2004, 4:15-6:30 pm
Gaylord Opryland Hotel, Lincoln E

Subcommittee Meetings:

Handbook: Sunday, June 27, 6:30-7:30 pm, Opryland Hotel, Belle Meade (A)
Program: Sunday, June 27, 5:30-6:30 pm, Opryland Hotel, Belle Meade (A)
Research: Monday, June 28, 2:15-4:15 pm, Gaylord Opryland Hotel, Lincoln E
PMS for 1167-RP, June 27, 4:30-5:30 pm, Opryland Hotel, Belle Meade (A)
PMS for 1169-RP, Monday, June 28, 1:00-2:15 pm, Gaylord Opryland Hotel, Lincoln E

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> (migration needed)
- Distribution of agenda & minutes package

2. Attendance & Quorum Check

Voting members for this meeting: **Boome, Carter, Emmerich, Lstiburek, Medina, Modera, Reardon, Walker, Zhang, Liddament (IM), Olesen (IM) (rolling off after this meeting)**
(quorum > 1/2 all VM, excl. IM; super maj. >= 2/3 VM present; simple maj. > 1/2 VM present)

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

4. Announcements & Liaisons

- Society liaisons (TAC *Int-Hout*, RAC *Webb*, Handbook *Rock/Wells/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 to June 30, 2004 moved in Anaheim. Revised final draft submitted June 2004. PMS report. Technical paper status.
 - “Indoor Environmental Effects on the Performance of School Work by Children”,
1257-TRP (PMS: *Sipes/Reardon/Federspiel*) PMS report.
 - “The Effect of Ganging on Pollutant Dispersion from Building Exhaust Stacks”
1167-WS (PMS: *Chen/Kato/Ratcliff*). PMS report.
- Long-Range Research Plan (LRRP) for submission August 01, 2004:
(*The LRRP submitted August 01, 2003 is listed below for reference*)
 - 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/Emmerich*) Contractor recommended in Anaheim. Delayed within RAC. Action expected in Nashville.
 - 3) "Dilution and Normalized Concentration Design Criteria for Laboratory Exhaust"
(*Petersen/Carter*)
 - 4) "Simplified Procedure for Calculating Exhaust/Intake Separation Distances"
(*Wilson/Taylor/Carter/Petersen*) RTAR and WS status update.
 - 5) "Minimum Acceptable Dilution of Commercial Kitchen Exhaust" with TC 5.10
(*Carter/Cardenal/Ratcliff/Wyon*) RTAR revision. WS status update.
 - 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*)
 - Other research ideas (Dale, UoAlberta; others)
- b. Program (*Weston*):
- Nashville, Seminar 5 "Moving toward a rational approach to addressing mold problems in buildings" Sunday 27 June 2004 8:00-10:00 AM
 - Proposed or planned program elements for
 - Orlando – January 2005:
 - Denver – June 2005:
 - Chicago – January 2006:
 - Quebec City – June 2006:
 - Other:
 - Symposia: "Airflow Around Buildings", "Air Leakage Performance for Non-Residential Buildings", "Infiltration Heat Recovery", "Ventilation Requirements and Infiltration in Hot and Humid Climates" (*Lstiburek*)
 - 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:
 - Web posting of Seminars 7, 25 and 47 from Anaheim 2004 Winter Meeting update.
- 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*)
 - Airflow Around Buildings (AHRN-70) , 2005 Fundamentals (*Petersen/Wilson*) Status.
 - Ventilation and Infiltration (AHRN-80), 2005 Fundamentals (*Walker*) Status.
 - 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)
 - 62.2-2003/SSPC 62.2, Ventilation and Acceptable IAQ in Low-Rise Residential Buildings
 - 119-1988 (RA94), Air Leakage Performance for Detached Single-Family Residential Buildings – recently released for Public Review - update

- 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)
- e. Honors (*Cardenal*):
 - Membership upgrades (associate member to member, fellow, life, etc.)
 - Distinguished Service Award (15 pts.), Exceptional Service Award (45 pts.)
TC members recently recognized:
 - Other honors & awards

6. Old Business

- Technical Bulletins/FAQs (Reardon)
- other

7. New Business

- 2004-2005 Roster Changes: rollovers, new members, subcommittee assignments
- TC 9.5 introduction/invitation letter and initial roster
- Homeland security letter invitation to contribute ideas – Van Baxter, Chair, Standards Committee & Mark Hegberg, TAC Chair
- Request for feedback (by July 1, 2004) regarding ASHRAE Standards used in Codes – Martha VanGeem, Chair, Code Interaction Subcommittee of ASHRAE Standards Committee
- Construction Specification Institute's (www.csinet.org) overhaul of the MasterFormat specification numbering system – publication scheduled for mid-2004 TEGA/TC7.1 – Charles Gullede, CSI/ASHRAE Liaison, Vice-Chair TC 7.1
- other

8. Adjourn

- Next meeting: February 7, 2005, ASHRAE Winter Meeting, Orlando, Florida