

ASHRAE Technical Committee 5.12: Ventilation Requirements & Infiltration
2006 WINTER MEETING AGENDA

Monday, January 23, 2006, 4:15-6:30 pm
Palmer House Hilton, Sandburg 4

Subcommittee Meetings:

Handbook: Sunday, January 22, 2006, 5-6 pm, Palmer House Hilton, Dearborn 2
Program: Sunday, January 22, 2006, 6-7 pm, Palmer House Hilton, Dearborn 2
Research: Monday, January 23, 2006, 2:15-4:15 pm, Palmer House Hilton, Sandburg 4
PMS 1167-RP, Sunday, January 22, 2006, 4-5 pm, Palmer House Hilton, Dearborn 3A

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, Schoen, Stathopoulos, Walker, Yang, Yuill, 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 Denver Meeting Minutes (distributed at this meeting)

4. Announcements & Liaisons

- Society liaisons (TAC *Richardson*, RAC *Kohloss*, Handbook 2007 *Rock* 2009 *Coad*, Standards *Hogan*, Program *Veeck*, CTTC *Circosta*, PDC *De Bullet*, Spec.Pubs *Ferguson*, etc.)
- Section 5 Chairs breakfast meeting announcements (*Emmerich*)
- ALI: ASHRAE Learning Institute (*Sekhar*)
- 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.
 - “Indoor Environmental Effects on the Performance of School Work by Children”,
1257-TRP (TC2.1; PMS: *Sipes/Reardon/Federspiel*) PMS report.
 - “Multiple Space Effects on Ventilation System Efficiency in Standard 62”
1276-WS (PMS: *Taylor/Wray/Reardon/Walker*) PMS report.
 - 1301-TRP “Quantification of Ventilation Effectiveness for Air
Quality Control in Plant and Animal Environment” (TC 2.2; PMS: *Zhang/...*)
- Long-Range Research Plan (LRRP):
 - 1) “Minimum Acceptable Dilution of Commercial Kitchen Exhaust” with TC 5.10
(*Carter/Cardenal/Ratcliff/Wyon*).
 - 2) “Occupant Response to the Noise of Residential Ventilation Fans ” RTAR 1426 (*Yuill*).

- 3) “Characterization of Infiltration and Ventilation in Mid- and High-Rise Multifamily Buildings” RTAR 1425 (*Emmerich/Reardon/Hill*)
 - 4) “Simplified Procedure for Calculating Exhaust/Intake Separation Distances” (*Wilson/Taylor/Carter/Petersen*).
 - 5) “Ventilation requirements for refrigerating machinery rooms” (*Taylor*)
 - 6) “Transport of pollutant between houses and attached garages” (*Brennan/Emmerich/Yuill/Walker*)
- Other research ideas:
 - Submit new research ideas to Subcommittee chair.
 - Relevant research of other TCs:
 - TC 1.2, RTAR-04-0102-01350 “Measurements of Air Change Rates in Occupied Homes”.
 - TC 5.3, RTAR-04-0503-01373 “Air-change Effectiveness with Stratified Air Distribution Systems”.
 - New effort to monitor research plans for relevant research when available online (*Emmerich-1&3, Shekar-2, Wray-4, Walker-5, D Yuill-6, Taylor-7, Reardon-8, Carter-9, G Yuill-10*)
- b. Program (*Griffiths*):
- Chicago, Seminar 9 “Design of Natural and Mixed Mode Ventilation Systems in Commercial Buildings” (*Taylor*) Sunday 22 January 2005 10:15-12:15 AM
 - Proposed or planned program elements for:
Quebec City – June 24-28, 2006
 - Symposium “Design for ETS in Hospitality Facilities” (*Wray*)
 - Seminar “Duct Leakage in Apartments, Hotels and Hospitals” (*Emmerich/Modera*)
 - Symposium “Air Leakage Performance for Non-Residential Buildings” (*Parekh*).
 - Symposium “Evaluation of CFD for Modeling External and Internal Flows” (*Carter*).
 - Seminar “New Developments in Modeling Hazardous Pollutants near Buildings” (*Carter*).
 - Seminar “IAQ issues related to residential attached garages” (*Cardenal*)
 - Dallas – February 10-14, 2007
 - Symposium “Ventilation in Hot and Humid Climates” (*Griffiths*)
 - Symposium “Technical Issues Related to 62.1” (*Taylor*)
 - Long Beach – June 23-27, 2007
 - Other Ideas
 - Symposia: “Airflow Around Buildings”, “Infiltration Heat Recovery”
 - Seminars: “Chapter 43”, “Evaluation of CFD for Modeling External and Internal Flows”, “Residential Ventilation Design”, “Effect of Air Cleaning Equipment in Ventilation Requirements” (*Zhang*)
 - Forums: “62.1 Issues”, “62.2 Issues”
 - Submit new program ideas to the subcommittee chair
- c. Handbook (*Carter*):
- Society-wide Handbook series rewrite - 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 (*Moderer*):

- 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
 - SPC 170 (TC 9.6) Ventilation of Healthcare Facilities
- New standards ideas to the Subcommittee Chair

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 (Hightower, Research Service, ...)

f. FAQs (*Taylor*)

g. Membership (*Yuill*)

- 2006/2007 Roster

6. Old Business

- other

7. New Business

- Tech Council Memo on Clothes Dryer Exhaust

8. Adjourn

- Next meeting: June 26, 2006, ASHRAE Winter Meeting, Quebec City