

**ASHRAE Technical Committee 4.3: Ventilation Requirements & Infiltration**  
**2006 ANNUAL MEETING AGENDA**  
Monday, June 26, 2006, 4:15-6:30 pm  
Quebec Convention Center, **205A (2)**

**Subcommittee Meetings:**

Research:	Monday, June 26, 2006, 2:15-4:15p	Quebec Convention Center, 205A
PMS 1167-RP:	Sunday, June 25, 2006, 4:00-5:00p	Quebec Convention Center, 208A
Handbook:	Sunday, June 25, 2006, 5:00-6:00p	Quebec Convention Center, 208A
Program:	Sunday, June 25, 2006, 6:00-7:00p	Quebec Convention Center, 208A

*Sponsoring: Seminar 43. Ventilation and IAQ: The New Standard 62.1 User's Manual; Seminar 78. IAQ and Carbon Monoxide Issues Related to Attached Residential Garages; Poster Session 13. Infiltration Heat Recovery, Part 1: Field Studies in an Instrumented Test Building (RP-1169) (QC-06-056) and Poster Session 14. Infiltration Heat Recovery, Part 2: Laboratory Studies of Two Test Panel Geometries (RP-1169) (QC-06-057)*

**Scope:** *TC 4.3 is concerned with ventilation requirements and the analysis of infiltration, airflow around buildings, and exhaust re-entry, including their integration with indoor air quality and energy calculations for building and HVAC system design and operation.*

**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 Chicago Meeting Minutes** (distributed at this meeting)

**4. Announcements & Liaisons**

- Society liaisons (TAC *Wray*, RAC *Brandemuehl*, Handbook 2007 *Rock* 2009 *Coad*, Standards *Reeves*, Program *Fedelman*, CTTC *Abernathy*, PDC *De Bullet*, Spec.Pubs *Ferguson*, etc.)
- Section 4 Chairs breakfast meeting announcements (*Emmerich*)
- ALI: ASHRAE Learning Institute (*Sekhar*)
- EHC: Environmental Health Committee (*Schoen*)
- ARTI: Air-Conditioning & Refrigeration Technology Institute (*Emmerich*)

**5. Subcommittee Reports**

a. Research (*Walker*):

- o Active Research:
  - o “The Effect of Ganging on Pollutant Dispersion from Building Exhaust Stacks”  
1167-WS (PMS: *Chen/Kato/Ratcliff*). PMS report.
  - o “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*):
  - Quebec City, Seminar 43 “Ventilation and IAQ: The New Standard 62.1 User's Manual” (*Rock*) Monday, June 26, 2006 10:45 AM-12:15 PM
  - Quebec City, Seminar 78 “IAQ and Carbon Monoxide Issues Related to Attached Residential Garages” (*Cardenal*) Wednesday, June 28, 2006 10:45 AM-12:15 PM

Proposed or planned program elements for:

- Dallas – February 10-14, 2007 (Deadline for papers April 7, 2006, packages due Aug. 4, 2006).
  - Seminar “New Developments in Modeling Hazardous Pollutants near Buildings” (*Carter*).
  - Symposium “Ventilation in Hot and Humid Climates” (*Griffiths*)
  - Seminar “The New 62.2 User’s Manual” (*Cardenal*): check for co-sponsorship by SSPC 62.2.
  - Seminar “Ventilation and IAQ in Apartment Buildings” (*Emmerich*)
  - Symposium “Air Leakage Performance for Non-Residential Buildings” (*Carter*).

- Long Beach – June 23-27, 2007 (Deadline for papers Sept. 29, 2006, packages due Feb. 2007).
  - Symposium “Evaluation of CFD for Modeling External and Internal Flows” (*Yang*).
- Other Ideas
  - Symposia: “Airflow Around Buildings”, “Infiltration Heat Recovery”
  - Seminars: “Chapter 43”, “Residential Ventilation Design”, “Effect of Air Cleaning Equipment on Ventilation Requirements” (*Zhang*). Seminar “Duct Leakage” (*Modera*)
  - Forums: “62.1 Issues”, “62.2 Issues”
  - Submit new program ideas to the subcommittee chair
- c. Handbook (*Carter*):
  - Chapter 44 - Exhaust and Intake Design, 2007 Applications status.
  - Chapter 16 - Airflow Around Buildings, 2009 Fundamentals status.
  - Chapter 26 - Ventilation and Infiltration, 2009 Fundamentals status.
  - CD+
- d. Standards (*Modera*):
  - TC 4.3 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
  - Voting Members after 2006 Annual Meeting
  - Subcommittee assignments after 2006 Annual Meeting:

## 6. Old Business

## 7. New Business

## 8. Adjourn

- Next meeting: January 29, 2007, ASHRAE Winter Meeting, Dallas