

## ASHRAE Technical Committee 4.3: Ventilation Requirements & Infiltration

### 2003 ANNUAL MEETING AGENDA

Monday, June 30, 2003, 4:15-6:30 pm

Kansas City Westin Crown Center, Washington 3

#### Subcommittee Meetings:

Handbook: June 29, 5:00-6:00 pm, Suite 1739

Program: June 29, 6:00-7:00 pm, Suite 1739

Research: June 30, 2:15-4:15 pm, Washington 3

**Scope:** *TC 4.3 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, Emmerich, Lstiburek, McIvor, Petersen, Ratcliff, Reardon, Rock, Taylor, Weston, Wray, Zhang, Feustel (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 (posted at TC web site)

#### 4. Announcements & Liaisons

- Society liaisons (TAC, RAC, Handbook, etc.)
- Section 4 meeting announcements (*Wray*)
- ALI: ASHRAE Learning Institute (*Boome*)
- EHC: Environmental Health Committee (*Cardenal*)
- ARTI: Air-Conditioning & Refrigeration Technology Institute (*Emmerich*)

#### 5. Subcommittee Reports

##### a. Research (*Reardon*):

- Active Research:
  - “Heat Transfer During Residential Infiltration/Exfiltration”  
1169-RP (PMS: *Reardon/Griffiths/Medina*)
  - “Indoor Environmental Effects on the Performance of School Work by Children”,  
1257-TRP (PES: *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*)
  - 2) “Multiple Space Effects on Ventilation System Efficiency in Standard 62”  
1276-WS (PES: *Taylor/Wray/Reardon*)
  - 3) “Dilution and Normalized Concentration Design Criteria for Laboratory Exhaust”  
(*Petersen*)
  - 4) “Minimum Acceptable Dilution of Commercial Kitchen Exhaust”  
(*Carter/Cardenal/Ratcliff/Wyon*)
  - 5) “Simplified Procedure for Calculating Exhaust/Intake Separation Distances”  
(*Wilson/Taylor/Carter/Petersen*)
  - 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” (*Reardon/Hill*)

- Ventilation requirement and infiltration issues in hot/humid climates (*Zhang*)
  - Other research ideas
- b. Program (*Weston*):
- Plan:
    - 1) Forum “What Should be in the 62.2P Companion Guideline?” (*Emmerich*)
    - 2) Forum “What’s Needed in an ASHRAE ETS Design Guide” (*Rock*)
    - 3) Seminar “Exhaust and Intake Design Issues” (*Petersen*)
    - 4) Seminar “How much outdoor air do you need and why?” (*Schoen*)
    - 5) Forum “How much outdoor air do you need and why?” (*Schoen*)
  - 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”
- c. Handbook (*Carter*):
- Society-wide Handbook series rewrite
  - 2005 Fundamentals Special Review
  - Building Air Intake and Exhaust Design, 2003 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 4.3 is the cognizant TC for:
    - 62-2001/SSPC 62.1, Ventilation for/and Acceptable IAQ (in Commercial, Institutional, and High-Rise Residential Buildings)
    - SPC 62.2P, 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**
- 2003-2004 Roster Changes
- 8. Adjourn**
- Next meeting: January 26, 2004, ASHRAE Winter Meeting, Marriott Hotel, Anaheim, California