

**ASHARE Technical Committee 5.3
Room Air Distribution
Main TC Meeting Minutes
Tuesday, February 8, 2005
Orlando, FL**

These draft minutes have not been approved and are not the official, approved record until approved by this committee.

1. Call to Order (David John)

Chairman David John called the meeting to order at 1:05 p.m.

2. Introductions / Attendance Sheet / Verify Quorum (David John)

All present introduced themselves by name and affiliation and an attendance sheet was circulated.

A quorum was established (12 out of 16) with the following voting members present:

No.	Name	Present	Absent
1	David A. John (TC Chair)	P	
2	Mo. H. Hosni (Vice Chair)	P	
3	James Aswegan (Secretary)	P	
4	Eugene (Gus) W. Faris	P	
5	Qingyan Chen (Webmaster)	P	
6	Frederick A. Lorch (Membership)	P	
7	Fred S. Bauman		A
8	Alfred T. Dyck	P	
9	Andrey Livchak	P	
10	Kenneth J. Loudermilk	P	
11	Duncan A. Phillips		A
12	Brian A. Rock	P	
13	Jelena Srebric	P	
14	Jianshun (Jensen) Zhang		A
15	William J. Waeldner		A
16	Takashi Akimoto (International Mem.)	P	

3. Accept Agenda and Approve Minutes of Chicago Meeting (David John)

- The agenda was accepted as submitted.
- Minutes from Anaheim meeting were approved. **(8-0-0-16)**

(Agenda and Minutes can be found on the Web).

4. Membership (Fred Lorch): Fred read the list of voting members for this meeting.

- Meeting times for Denver:
 - TC 5.3 - Tuesday 1:00-3:30 p.m.
 - RP-1292 PMS - Sunday 1:30-2:00 p.m.
 - Research - Sunday 2:00-3:00 p.m.
 - Programs - Sunday 3:00-4:00 p.m.
 - Handbook - Sunday 4:00-6:00 p.m.
 - Handbook Applications- Friday 8:00-5:00 p.m.

5. Section Head / Society Announcements (David John)

1. MOB (Management By Objectives)
 - a. Minutes submitted within 60 days.
 - b. Review current handbooks for relevance.
 - c. Set up TC website.
 - i. Denver will be a workshop.
 - ii. Chris Abbey will attend.
2. Handbook
 - a. General consensus is that handbooks are not as useful as they were.
 - b. Should be written for design Mechanical Engineer.
 - c. Make sure: Errors are corrected, References are correct.
 - d. CD available that can be updated each year.
3. Conferences
 - a. Clina 2005 October-Lausanne.
 - b. Heat pump conference in June.
 - c. Cooperation with CIBSE.
4. Electronic Support
 - a. F.A.Q., need a volunteer.
 - b. Electronic lists-handout.
 - c. Website, can put working documents on password protected site.
5. Seminars & Presentations
 - a. Seminars in Nashville had sales of \$25,000.00.
 - b. Seminars include powerpoint and audio.
 - c. You can refuse to participate or Chair can object.
 - d. We can post seminars but not audio version.
6. TC-5.2 is looking for members who are manufactures who sell louvers.

6. Research Subcommittee (Gus Faris)

RP-1292 Progress report from Sunday Feb6, 2005.

1. The meeting was called to order by Chairman Eugene Faris at 1:30.
2. John Bryant immediately took over, and gave a progress report.
3. Bryant announced that Michael Davis will probably take on this project as his dissertation.
4. Several questions and answers about report.
5. Ron Woodbury requested a test method in print. John Bryant agreed to provide it within 1 month.
6. Adjourned 2:05.

Research Sub-Committee meeting. (Gus Faris)

1. The meeting was called to order by Chairman Eugene Faris at 2:10. Chairman Faris stated that the meeting was a Research subcommittee of TC 5.3 meeting.
2. A discussion of proposed Research projects followed with the following items decided.
3. We have two new RTAR's approved and one that has been around that the committee decided to proceed with a work statement.
4. Work Statements for the approved RTAR's we discussed.
 1. This is the RTAR for research on different inlet conditions. David John reported that the Work Statement is not ready as ASHRAE has changed their format and it is not in the current format. David will have it at the meeting on Tuesday in the proper format.
 2. RTAR 1372: Fred Lorch is lead. Work Statement was not ready. Evaluation of the Air Diffusion Performance Index (ADPI) for Various Air Distribution Systems. - - This project is important because it is required for more information to complete the ADPI rating as used in Standard 113. The current ADPI rating is not sufficient for heating applications nor underfloor applications. Work needs to be expended to create ADPI rating procedures for other air distribution methods. This research is critical in that Standard 113 has just been completed and is being readied for public review.
 3. RTAR 1373: Andrey Livchack is lead. Air-Change Effectiveness with Stratified Air Distribution Systems - - This project is important because it would verify or negate the new outdoor air requirements as listed in ASHRAE Standard 62.1 addendum n for underfloor applications. Obtaining E value for stratified air distribution systems will justify reduction of the minimum outside air required to be supplied into a space under peak cooling load conditions without compromising indoor air quality. This, in turn, will reduce capacity and energy consumption of cooling systems. The database of E values will be expanded for use in design practice. Proven that CFD could be used to obtain the E-values for various space configurations, it will speed-up and simplify the task of creating the database of air-change effectiveness values for the design purposes.
 4. The committee voted to forward work statements by David John, RTAR XXXX, and Andrey Livchack, RTAR 1373, and Fred Lorch, RTAR 1372, will get his done later. A vote will be requested at the TC 5.3 meeting and all missing members will be polled by mail in order to get the work statements in by the March 1, 2005 deadline.
Note: The members of the committee voted (12-0-0-15) in favor of each work statement. The three absent members were polled by email after the meeting with a result of 2 members responding in favor of each work statement. The third member was not reachable and considered to be an abstention.
5. New RTAR's

No new RTAR's were presented.
3. Fred Lorch asked for a committee to help write his work statement. Committee formed Fred Lorch (lead), David John and Andrey Livchek.
4. The meeting was adjourned at 2:45 pm.

7. Program Subcommittee (Robert Lindner)

1. **Orlando Program**
2 Symposiums – Mo Hosni Chair
 - “Advances and Innovations in Room Air Distribution” (11 papers in total)

2. **Denver Program**
Panel Forum – Selection & Application of VAV Terminal Units
 - Fred Lorch to Chair
 - 2 hour time slot needed
 - Speakers will be given 10 -15 minutes to present their perspective
 - Chair will develop a list of questions to lead the discussion
 - Audience will be asked to provide response to panel speakers
 - Speakers will be selected for:
 - i. Manufacturer – Dan Int-Hout
 - ii. Design Engineer – Jeff Stein
 - iii. Owner: Thomas Bay, to be contacted by Jack Stegall
 - iv. TAB – Gaylon Richardson
Seminar – Lessons Learned in the Design, Start-up and Operation of Underfloor Systems
 - Bob Linder to Chair
 - Speakers and subjects:
 - i. Design and Control – Jeff Stein / Taylor representative
 - ii. Start-up and Commissioning – Fred Bauman
 - iii. Operation – Mike Filler
 - iv. Use of Floor Cavity for Supply Plenum – Ken Loudermilk

3. **Chicago Program**
Seminar - Applying Displacement Ventilation to Various Building Types
 - Chair is Mike Filler
 - Building types included:
 - Schools – Andrey Livchak
 - Office
 - Hospitality Industry
 - Libraries
 - Telecommunication
 - Remaining speakers to be selected and coordinated in Denver at the Program subcommittee meeting.

4. **Future Program Ideas**
Back to Basics of Room Air Distribution
 - Initially discussed as a potential Symposium, but with Seminars now being recorded it was decided that we should pursue the series of presentations to seminars so that we can move forward with the information more quickly.
 - Series would be 6-8 seminars, attempt to have 2 per meeting.
 - Some potential topics include:
 - Selection and application of terminal devices
 - Diffuser selection and applications
 - throw
 - ADPI and other rating systems
 - Ventilation and air distribution effectiveness
 - Applying 113, standard 70 and 62.1
 - Request that members think about potential series structure and come to the Denver Program Subcommittee meeting with written ideas for review.

8. Handbook Subcommittee (Jim Aswegan)

- **Fundamentals 2005 Chapter 33 (Jim Aswegan)**, all work by TC-5.3 has been completed and submitted.
- **Applications Handbook (2007)** TC-5.3 has been approved for a new chapter in the Applications handbook. David John is leading a committee to write a new chapter using recent research. The committee is assigned to complete working documents and meet on Friday June 24 in Denver. Members of this committee are, others with input are welcome:
 - Ken Loudermilk Quasi Displacement.
 - David John, Mixed systems
 - Jim Aswegan, Systems and Fundamentals data to shift.
 - Mike Filler, Stratisified systems.
 - Fred Bauman, TASK ambient.
 - Andrey Livchak
 - Brian Rock (liaison)
- **Systems Handbook (2008)** Kevin Gebke will be the lead revisor for this committee. Other members are (volunteers with input are welcome):
 - James Tharp
 - Brian Rock
- **Fundamentals Handbook (2009)** Andrey Livchak will be the lead revisor for this committee.
- **Note:** The committee goals for future chapters will be to use the latest research and organize all TC-5.3 to compliment each other.
- **Electronic Media** Jim Aswegan has agreed to manage the Electronic Support Tools group which includes:
 - Chris Abbey-Webmaster
 - Dan Int-Hout Group Chairman
 - Takashi Akimoto
 - Brian Rock
 - Mike Filler
 - Duncan Phillips

9. Standards

- **SPC 70 -1991R (Jim Aswegan)** committee (7 of 9 present) met on Monday. We are tending to final assignments with hopes of meeting the February deadline for public review submission. If not, we will be ready to submit before Denver.
- **SPC 113 (Fred Lorch)** The committee met briefly on Tuesday morning to vote and respond to a negative comment. The committee voted to reject the comment. Objector has been notified and has reportedly agreed to withdraw their objection. The standard is now approved and ready for publication. Congratulations to this team.
- **SPC 130 (Gus Faris)** Progress was made in Sunday's meetings. Two sub-committees have been formed to prepare proposals regarding new material for the standard. Two or three meetings will be required to complete committee work on this standard.

10. Honors and Awards (William Waeldner)

- Members of TC-5.3 recognized in Nashville are:
 - Mo Hosni – Fellow award.
 - Brian Rock – Fellow award.
 - The Hightower award for outstanding service in one-year period has not been requested by any TC. Brian Rock has volunteered to champion selection of Honors and Awards nominees for TC-5.3. Bill Waeldner was contacted after the meeting and

11. Old Business (David John)

12. New Business (David John)

13. Adjourn 2:45 pm