

Meeting Minutes
TC 5.3 Room Air Distribution
ASHRAE 2007 Annual Meeting
Long Beach, CA
Date: June 26, 2007,
Time: 1:00 – 3:30 p.m.
Location: R/Sienna (2)

1. **The meeting was called to order by Chairman Hosni at 1:00PM**
11 of 15 present quorum

2. **Introduction / Attendance Sheet / Verify Quorum** **Lorch**

Mo Hosni	Present	
Gus Faris	Present	
David John	Present	
Bob Linder		Absent
Fred Lorch	Present	
Fred Bauman	Present	
Ted Carnes	Present	
Yan Chen	Present	
Mike Filler	Present	
Kevin Gebke	Present	
Ken Loudermilk	Present	
Brian Rock		Absent
Jerry Sipes	Present	
Jeff Stein		Absent
Bill Waeldner		Absent

3. **Accept Agenda and Approve Minutes of Dallas** **Hosni**
 - A. Approval of agenda
 - B. Motion to approve the minutes by Gus Faris
 - i. second by Jerry Sipes
 - C. 10-0-0-15 cnv

4. **Membership** **Lorch**
 - A. Rolling off after June 2007 (corresponding)
Mo Hosni
Qingyan Chen

 - B. New Voting Members after June 2007
Gus Faris
Mike Filler
Kevin Gebke
Jeff Stein
David John

Ted Carnes
Jerry Sipes
Bob Linder
Fred Lorch
Fred Bauman
Ken Loudermilk
Brian Rock
Bill Waeldner
Jim Aswegan
Hans Levy
Walter Schwarz
Jack Stegall
Jianshun Zhang

C. New International Members

Takashi Akimoto
Arsen Melikov

D. Dropped Corresponding Members

Kimball Ferguson
Patricia Graef
John Hogan
Colleen Guest
Kerstin Kenty

E. New Corresponding Members

Yan Chen
Mo Hosni
Chris Abbey
Andrey Livchak
Morton Blatt
Bob Brown
Alf Dyck
Dan Int-Hout
Leon Kloostra
Duncan Phillips
Gaylon Richardson
Julian Rochester
Pat Schoof
Jelena Srebric
Harold Straub
Jin Van Gilder
Lingyang Zhao
Alex Zhivov
Randy Zimmerman
Jim Kline

Atilla Novoselac
Tom Tan

5. **Section Head / Society Announcements** **Hosni**

- A. 5.x section head, Gaylon Richardson, presented a **Certificate of Appreciation** to Mo Hosni for his work as TC 5.3 Chairman.
- B. Need issues for 5.3 25 words or less by Tuesday
- C. Look at Handbook, Standards and Guidelines for Sustainability and 90.1 for comments in New York.
- D. Jim Aswegan: Research advisory panel formed for 2010 to 2015 for research goals
- E. Thank you letters to employers are available if you wish
- F. All members and corresponding members to be involved in sub-committees in the future
- G. Fill out forms for rooms for 75 people minimum for future meetings.
- H. Fred Kohloss any updates? David John, yes the rewrite is complete. Fred Kohloss will forward within 2 days of receipt.

6. **Research Subcommittee** **Aswegan**

- A. Met on Sunday
- B. RP 1292 is complete – report reviewed by PMS – 2 phases unanimous approval
 - i. Motion by PMS
 - ii. 10-0-0-15 cnv
- C. RP 1373 met on Sunday, June 24, 2007 1:00PM to 3:00PM
 - i. PMS-1373 “Air change effectiveness with stratified air distribution systems.”

Attended:

Fred Lorch	Phoenix
Ken Loudermilk	Trox
Fred Bauman	Univ. of California
Risto Kosonen	Halton
Mike Filler	Trane
Andrey Livchak	Halton Group Americas
Ki Sup Lee	Perdue Univ.
Yan Chen	Perdue Univ.

- ii. Andrey Livchak reported that the PMS met separately with the contractors to discuss the progress of this project. The project is reported to be on schedule to be completed in January of 2008. Tasks 1 to 3 are completed, Task 4 is 30% done. Reminder: P.I. must submit a quarterly progress report to MORTS.

- D. URP 1473 has been withdrawn PMS cancelled

- E. URP 1438 Lots of confusion on chairman
 - i. Nice job of putting together a design tool for combining displacement system and radiant cooling
 - ii. Interesting nomographs to short cut design planning
 - iii. Impressed with organization
 - iv. Jerry Sipes chair from now on. Motion by Ken Loudermilk second by Andrey Livchak
 - v. Unanimous

- F. WS 1372
 - i. Returned for rewrite

- G. WS 1335 David John and Leon Kloostra conditionally approved
 - i. Met with Dan Int-Hout and Fred Lorch on Sunday and addressed everything on comments
 - ii. Gaylon Richardson to help with some past research on single point inlet sensors
 - iii. Dan Int-Hout to contact Las Vegas people to get their research for David John

- H. Ken Loudermilk to provide RTAR and WS on Effects of Turbulent Jets, etc.

- I. ASHRAE has money to spend on research
 - i. RAC has approval authority up to 100,000

- J. Fred Lorch attended 9.6 and they have RP 1397 and we should be on that. Research chair asked for 2 people to serve on PMS. Volunteers are Leon Kloostra, Jerry Price and John Gierzak.

- K. Fred Lorch report from CDC looking for research for airborne infectious diseases see report from Fred Lorch

- L. CDC actively pursuing research on displacement systems in waiting rooms, etc.

- M. David John – Terminal unit selection RTAR to come by next meeting.

- 7. **Handbook Subcommittee reports** **John**
 - A. David John Applications chapter done and published
 - i. Next chapter due is Systems and Equipment need approval
 - ii. Motion from Handbook to accept 17
 - iii. 10-0-0-15 cv

 - B. David John to start Fundamentals before NYC.

- i. Dan Int-Hout – be sure not to eliminate all references to extra materials.
- ii. Gaylon Richardson – identify changes and references and let ASHRAE identify needs

8. **Standards Subcommittee reports** **Lorch**

- A. Fred Lorch has one Standard SPC 130
 - i. Jerry Sipes – voted on publication
 - ii. Answered all 32 comments
 - iii. Sound issues needed to be correlated with ARI.
 - iv. Publish by end of year if lucky

- B. Fred Lorch: There is an existing SPC 193 to create a MOT for determining air leakage rate for HVAC equipment and scope includes terminal units. Fred Lorch to send letter to inform them that we already have a standard, implying that they should change their scope.
 - i. Chair is Michael Lubliner

- C. Dan Int-Hout comment on Standard 189. We all need to examine and comment. Reheat has been removed completely. John Hogan is chair. This is open for public comment until July 9, 2007.

9. **Honors & Awards** **Rock**

- A. Fred Lorch: Extending congratulations to Dan Int-Hout for his Exceptional Services award.
 - i. Fred Lorch being nominated by 7.7 for the Hightower Award and 5.3 will also nominate.
 - ii. Motion by Gus Faris
 - iii. Second by Jerry Sipes to nominate
 - iv. 9-0-1-15 cv
 - v. Fred Lorch abstained. Fred was under code of silence.

10. **Program** **Livchak**

- A. New-York (winter 2008)
 - i. Transactions program to be submitted by April 6 2007
 - ii. Canceled: Transactions: Recent developments and advances in stratified air distribution systems.
 - Chair: Yan Chen
 - Authors
 - 4 potential authors.

 - iii. Transactions: Reports from RP 1292 Comparison of Total Energy Consumption of a Series Fan Powered VAV Terminal Unit vs. a Parallel Fan Powered VAV Terminal Unit.
 - Chair: Gus Faris

- Authors
 - 2 back-to-back seminars for 6 to 7 authors
- iv. Forum - What would consulting engineers would like to see in the terminal units design guide. (moved from Long Beach program)
- Moderator David John
- B. Salt Lake City (summer 2008)
- i. Transactions: Reports from RP 1292, Part II Comparison of Total Energy Consumption of a Series Fan Powered VAV Terminal Unit vs. a Parallel Fan Powered VAV Terminal Unit.
- Chair: Gus Faris
 - Authors
- C. Chicago (winter 2009)
- i. Symposium: “Advances and Innovations in Air Distribution”
- Mo Hosni chair.
 - Authors:
- D. New York transactions from RP 1292 chaired by Gus Faris
- E. Forum - What Consulting Engineers Would Like to see in a Design Guide – David John
- F. Salt Lake City Phase 2 transaction
- G. Chicago Phase 2 transaction
- H. Theme in New York is Reaching New Heights in Zero Design
- I. SLC theme is Benchmarking or Measuring Future Performance.
- J. Chicago Sustainable building design
- K. Louisville Optimal Air quality.
- L. Please e-mail Andre with ideas for programs if you have them
- M. Future Seminars will require early uploads to ASHRAE prior to the meeting and all will be recorded. Recording is no longer an option.
- N. Program size is not limited, but over 50 Megs should send a DVD maybe for ease of transfer.

- A. Mo Hosni – members have asked about underfloor air distribution design guide
- B. Dan Int-Hout is TRG 7-URG vice chair James Woods is chair Bill Coad is Sec. Ken Loudermilk is corresponding member
 - i. Goal is to identify problem with existing jobs and disseminate information
 - ii. GSA has 5 million sq feet that is not performing, 5 million under design which is being redesigned. There is some that is performing, but not sure how much.
 - iii. Meeting is 10:00 on Wed in the LLBC 102C till noon.
 - iv. No move to withdraw current book.
 - v. Special pubs, Journal articles, addenda are all being considered.
 - vi. Section 2, 4, 7, 9 and 5 are all involved because those other than 5.3 are claiming cognizance over the book.
 - vii. Fred Bauman: we need to update the design guide, but we must be motivated by real issues and not politics.
 - viii. Tech Council directed Gaylon Richardson to form the committee
 - ix. Ken Loudermilk – We have very little representation by people who have actually designed an underfloor job. Nobody from anywhere from the east that has experience. Committee is light on designers.
 - x. Dan Int-Hout – there are 13 members and there are 15 slots, so if you want on, please apply.
 - xi. Fred Bauman - a document being distributed to TRG that is an unpublished design guide from GSA. GSA is considering underfloor where appropriate, not prohibited.
 - xii. Mo Hosni – wanted to let membership know what is happening, and to know that there were some controversies, but he thinks they are resolved and future is positive for benefits to everyone involved.
 - xiii. David John – This committee approved the Design guide and said at that time that further research was needed. Next step should have been continuation with design guide. After this stuff, do we continue to produce design guides? Where do we go from here as a committee when we have new technology. Mo, no there is no criticism, design guide is going forward.

12. **New Business**

Hosni

- A. Gaylon Richardson – we have a lot of research projects, and ASHRAE could do better to disseminate them with a list that is circulated.
- B. Mo Hosni – we could post it on our web site, or a link if it exists. Gaylon Richardson to suggest to ASHRAE

- C. Indoor Air 2008 in Copenhagen in
- D. Ken Loudermilk – When we were working on our Handbook, we started writing about active Chilled Beams. Went to TC 6.5 on Sunday – radiant heating and cooling. Passive does not have an air supply. They specifically do not deal with it. Who does? 6.5 said there used to be a 6.4, now 6.1 who deals with convective heating, but no cooling. Write a letter to ASHRAE to assign the cooling to somebody. Gaylon – we should make it a sub-committee if we want to deal with it.
 - i. Jerry Sipes motion to form a sub-committee on convective cooling including passive beams.
 - ii. second by Gus Faris
 - iii. Committee will set scope
- E. 9-0-1-10 cnv David John opposed because he does not believe that it is necessary to have a sub-committee. Ken Loudermilk - chair, Jerry Sipes, Gaylon Richardson, Duncan Phillips, Andrey Livchak.
- F. Fred Lorch - RAC in recognition of PMS and PES members, members will be listed or commented on in Journal to see if RAC will award points for membership.

13. Adjourn

- A. Move to adjourn by Gus Faris
- B. second by Ted Carnes.