

TC Cover Sheet
TC 6.3, Central Heating and Cooling

January 30, 2007

Attendance (ending year of membership)

Members Present

John Andrews (06)
Paul Francisco (08)
Michael Lubliner (09)
Keith Temple (09)
Evelyn Baskin (08)
James Cummings (07)
Gary Nelson (07)
Mark Olsen (06)
William Rittelmann (07)
Bryan Rocky (07)
Jeff Siegel (07)
Iain Walker (08)

Members Absent

Mark Modera (08)
Martin Petchul (06)
Steven Tice (07)
Arun Vohra (07)

Corresponding Members Present

Chuck Gaston
Roger Hedrick
Stephen Kowalski
Dianne Griffiths
John Proctor
Harvey Sachs
Jim Vershaw

Guests

Jason LeRoy
Brandon Tudor
Bert Phillips
Jim Lutz
John Talbott
Paul Haydock
Eric Lardi
Darrell Howell
Collin Olson
Sunil Nanjundaram
Byron Horak
Larry Markel
Boualem Ouazia

Distribution

All entries shown on committee roster

ASHRAE TC6.3
Central Forced Air Heating and Cooling

Minutes of Meeting
January 30, 2007
Dallas, Texas

Call to Order

The meeting began at 1:03 p.m. in the Majestic 5 room of the Adams Mark Hotel. A quorum was present. Copies of the Agenda and the Quebec City minutes were distributed and introductions were made. The voting membership was reviewed. There will be seven members rolling off at the end of the society year. Lubliner moved, Temple second, to accept the agenda, with the revision that the minutes to be approved are from Quebec City. Motion carried 13-0-0.

Minutes of Last Meeting

Lubliner moved, Walker second, to approved the minutes, with the change that the date on the cover sheet be corrected. Motion passed 13-0-0.

Announcements

Chair Paul Francisco discussed various items from the TC Chair's breakfast. ASHRAE is moving to a new computer system, hoping to move to paperless meetings. There has been a revision to the membership policy, in that members from different agencies within the US government are no longer considered to be "from the same company."

Harvey Sachs spoke as liaison from publications. There is always a desire for material for the Journal and other publications. Mark Modera brought up a concern about the change regarding the elimination of free registration for session chairs. This will be discussed later in the meeting.

Subcommittee Reports

Handbook

Paul Haydock discussed handbook activities. The TC will need to approve revisions by the June meeting. The focus is on Chapter 28 of the Systems and Equipment handbook. Revisions are not yet complete, but several volunteers are working on them. There are also volunteers in place to provide reviews. It is planned to have letter ballots during the spring to move the revisions along. On Chapter 9 of the Systems and Equipment handbook, there is a desire to remove the old SP43 material, and get a discussion of Standard 152 added.

Programs

ASHRAE has instituted a change in the registration policy in that only speakers who have written a paper receive a full free registration. Speakers at seminars receive a single day free registration, as do all session chairs. There was concern expressed that chairing a symposium is a lot of work, and they should be compensated. The TC agrees that it is appropriate for ASHRAE to encourage citable papers, but without a symposium chair, there will be no papers. Siegel moved, Temple second, that the TC prepare a letter to the program committee asking that all authors and chairs associated with transaction sessions

receive free full registrations, and that seminar chairs receive a one day registration. Mark Modera expressed the opinion that one impediment to having more transaction sessions is the time it takes to get information out, i.e., that from the time one says they have information that needs to get out to the time when the presentation is made, information can get stale, and that there are other alternatives where information can be gotten out faster. There was discussion about who the letter should go to, and it was decided that Paul Francisco would discuss this with the section chair, and address the letter appropriately. Motion carried 13-1-0. The negative voter, Harvey Sachs, expressed his concern that the policy in question was a response to a different problem having to do with meetings being shown as not breaking even, although he feels that this is due to misallocation of ASHRAE costs to the meetings.

Keith Temple distributed a program plan (Attachment 1). There was a seminar in Dallas, which was discussed by the session chair, Bill Rittelmann, and had attendance of about 50. For Long Beach, a transcript session is scheduled. Iain Walker, the session chair, discussed problems with the "Manuscript Central" system. Other than that, the session is on track.

A seminar and a forum are proposed for Long Beach as shown in the plan. Craig Wray also proposed a forum, "What is Needed to Commission Air Distribution Systems for Small Commercial Systems." Mike Lubliner discussed the Seminar, which had been previously approved by the TC, but was not approved by the society. It is on heat pump systems, and there are at least 3 speakers committed, with two others possible. The forum will be on residential energy tax credits and Bryan Rocky will chair the session. Craig stated that the commissioning forum he proposes is needed for a project that is beginning soon, and a session such as this will need to be done some other way if it doesn't happen through ASHRAE. Keith Temple moved, Seigel second, that the Long Beach seminar be approved as the number one priority, the tax credit forum be number two, and the commissioning forum be number 3. Motion carried 14-0-0.

There was discussion about the Transaction session on field degradation scheduled for Salt Lake City, specifically the status of the planned papers.

Research

Mike Lubliner discussed the Research Subcommittee meeting. John Andrews had prepared a very good program plan in 2004, and Mike is looking to get that plan updated.

At the meeting a year ago, the subcommittee had developed a list of potential research topics, and at this meeting a few additional items were included, and the subcommittee then voted on what to work on. Volunteers were identified to develop RTARs on selected topics.

The project on latent cooling options will be cosponsored by ARI (\$50,000). The approach for the project has been evolving with regard to the mix of modeling and validation. The work statement will probably not be ready for the April bid period, but should be ready for the fall.

There is also an RTAR on heat pump performance, but there is a similar project being performed elsewhere, so this RTAR is on hold pending the results of that project. That said, it was pointed out that utilities in the Pacific Northwest have extensive rebate programs, and are very interested in real data on the energy impact of heat pump installation issues.

Paul Francisco reported on the research coordination meeting, which is a meeting of TCs that are concerned with residential systems and issues. Paul asked them each to develop a research list similar to what TC 6.3 had done. Martha Brook from CEC attended. CEC, GBC, CIBSE are all interested in cooperating with ASHRAE on research. Martha expressed interest in thermostat issues. The group also

discussed the possibility for an ASHRAE advanced energy design guide for the residential retrofit market. The group was asked to prepare a short writeup and passed that up to ASHRAE staff. The group also was asked to identify people who could work on the project.

Standards

Mark Modera described the standards meeting. Mark was given an action item to check on the status of Standard 103. There was a request made to form a revision committee for Standard 152, which will be acted on by the board at this meeting. The proposal to form an SPC regarding equipment leakage was approved by Standards in the fall, with the removal of the proposed size limitation. There will be a call for members for both SPCs.

Web Site

The website is out of date, and material should be forwarded to Steve Kowalski.

ASHRAE Learning Institute

Chuck Gaston discussed ALI activities. If anyone is interested in teaching a short course, contact Chuck.

Old Business

No old business.

New Business

Mike Lubliner expressed concern about the industry's message to consumers that the way to save energy is by replacing their equipment with higher efficiency units, but with no mention of the importance of improving distribution efficiency. Diane Griffiths pointed out that the tax credit legislation does not include distribution systems. Mike would like to see distribution system issues be added to ASHRAE training sessions. George Yeager from Sears mentioned that he had attended a training seminar, "called Comfortech," which included duct and distribution system issues. Harvey Sachs pointed out that various materials for consumers mention the importance of selecting the right contractor for HVAC system work. He offered to assist the TC in bringing this issue up for inclusion in legislation. There was discussion about how the energy tax credit legislation addresses duct systems. Mike pointed out that the issue also includes utility incentives.

Paul Francisco pointed out that John Andrews has done a tremendous amount of work for the TC. He asked that the TC support John Andrews as a recipient of the Service to ASHRAE Research award. Motion by Sachs, second by Gaston. Passed 14-0-0.

Adjournment

The meeting adjourned at 3:00 p.m.

**TC 6.3 – Program Plan
January 2007**

Meeting	Symposium	Seminar	Forum
Dallas January 2007 Energy Conservation		Design Considerations for Multi-zone Residential Forced-Air Systems (Rittelmann) 50 attendees	
Long Beach June 2007 Natural Resource program due 2/9/07	HVAC System Improvements in Manufactured Housing (Walker) 2 or 3 papers	1. Heating with Forced Air Heat Pump Systems – Past, Present and Future (Lubliner) 3 to 5 speakers	2. Energy Tax Credits for Residential HVAC – Is It Working and What Does It Cost? (Rocky)
			3. What is Needed to Commission Air Distribution Systems for Small Commercial Buildings (Wray)
New York January 2008 papers due 4/6/07 program due 8/3/07		<i>Forced-Air Distribution Systems in the Conditioned Space (Lubliner)</i>	<i>Leaky Air-Handlers and Furnaces – Who Cares? (Gaston) 62.2 cosponsor</i>
		<i>Lessons about Small Forced-Air Systems from Weatherization Programs (Francisco) 3 speakers</i>	
Salt Lake City June 2008 papers due 9/28/07 program due 2/8/08	<i>Field Degradation of HVAC System Performance (Francisco)</i>	<i>High Altitude Applications and System Performance, TC 6.10 cosponsor</i>	<i>Humidity Control Options and Costs</i>
	<i>Small Commercial Forced-Air System Performance</i>		
Chicago January 2009 papers due 4/08 program due 8/08		<i>Should Building Cavities be allowed to be used as part of the HVAC Distribution System? (Cummings)</i>	<i>Duct and HVAC Insulation: sweating, noise, energy etc. (Lubliner)</i>

Other Potential Topics:

Seminar or Symposium: Consequences of Oversizing Forced Air Heating and Cooling Systems (Proctor)

Seminar or Symposium: Advanced Air Distribution Systems (Vohra)

HVAC System Improvements in Modular Homes

Results of ARTI Research Projects

ATTACHMENT 1

TC 6.3 – Past Programs

Meeting	Symposium	Seminar	Forum
Atlanta January 2001		Exploring Alternative Energy Efficiency Factors (Temple) 30 attendees	Residential Cooling and Dehumidification in Hot and Humid Climates (Jakob) 35 attendees
Cincinnati June 2001		Update on Standards for Residential and Light Commercial Central Systems (Haydock) 50 attendees	Experiences with Residential HVAC in HUD-Code Manufactured Homes (Lubliner) 22 attendees
Atlantic City January 2002	Depressurization and Venting Issues for Residences (Jakob) 37 attendees		
Honolulu June 2002		Uncontrolled Airflows in Small Commercial Buildings (Kweller) 50 attendees	
Chicago January 2003	Advances and Issues in Residential Thermal Distribution System Efficiency (5 speakers - Andrews) 35 attendees		What should the “Design of Small Forced Air Systems” Chapter of the Handbook include on Duct Design? (Temple) 7 attendees
Kansas City June 2003	Advances and Issues in Residential Thermal Distribution Efficiency (5 speakers - Temple) 35 attendees	Impacts of Duct Systems on Indoor Air Quality (5 speakers - Siegel) 50 attendees	
Anaheim January 2004	Factors Influencing the Energy Performance of Forced-Air Systems (3 speakers -Lubliner) 60 attendees		
Nashville June 2004	Forced Air Distribution System Performance (5 speakers - Andrews) 60 attendees	Best Choice Cooling System Airflow Rates for Different Climates (5 speakers - Cummings)	
Orlando February 2005		What can ASHRAE Standard 152 Tell Us About Conditioning Our Houses? (4 speakers - Francisco) 20 attendees	
Denver June 2005	HVAC Systems and Performance in Building America Homes (Vohra) 50 attendees	How Should Thermal Distribution Efficacy be Defined? (Rittelmann) 40 attendees	What Often Ignored Factors Affect Performance of Residential Forced-Air Systems (Gaston) 15 attendees
Chicago January 2006	Managing Return Air in Residential and Small Commercial Buildings (3 authors - Francisco) 50 attendees		A look forward to 2020 for small forced-air H and C systems (Rocky) 21 attendees
Quebec City June 2006			The Role of Forced-Air Systems During Extraordinary Events (Siegel) 30 attendees

