

TC Cover Sheet  
TC 6.3, Central Heating and Cooling

January 26, 2010

Attendance (ending year of membership)

**Members Present**

Mark Olsen (10)  
Dianne Griffiths (10)  
Jim Cummings (12)  
Chuck Gaston (10)  
Gary Nelson (12)  
Paul Haydock (12)  
Jeff Siegel (12)  
Paul Francisco (13)  
Iain Walker (13)  
Roy Crawford (13)  
William Rittelmann (12)

**Members Absent**

Keith Temple  
David Delaquila (11)  
Harvey Sachs (10)  
Roger Hedrick (10)

**Distribution**

All entries shown on committee roster

**Corresponding Members Present**

Mike Blanford  
Sunil Nanjundaram  
Bert Phillips  
George Yaeger

**Guests**

Greg Phetteplace  
Collin Olson  
Larry Brand  
Jeff Miller  
David Springer

ASHRAE TC 6.3  
Central Forced Air Heating and Cooling

Minutes of the meeting  
January 26, 2010  
Orlando, FL

**Call to Order**

The meeting began at 1:05 p.m. in Suwanee 18 of the Rosen Shingle Creek with introductions. Copies of the agenda and the Louisville minutes were previously distributed. A quorum was present.

**Minutes of Last Meeting**

Minutes approved. Cummings/Walker 8-0-1, chair not voting

Results of letter ballot sent 6/30/09 for business items discussed at the Louisville meeting when a quorum was not present:

- Vote to approve Chicago minutes. Approved 9-0-1, chair not voting
- Vote to approve proposed Seminar program for Orlando entitled “Should Building Cavities be allowed to be used as part of the HVAC Distribution System?” Approved 9-0-1, chair not voting
- Vote to approve Transactions program for Albuquerque entitled “Advances in Duct Leakage Measurement.” Approved 9-0-1, chair not voting
- Vote to provide TC6.3 co-sponsorship with TC 8.11 of the RTAR entitled: Develop alternate setup guidelines for Unitary Air Conditioner test configurations which cannot adhere to ASHRAE specified duct dimensions and external pressure tap locations. Approved 9-0-1, chair not voting

**Announcements**

Chair Olsen discussed various items from the TC Chair’s breakfast.

- 1) Hightower Award recipient, Dharam V. Punwani, TC 1.10, for developing entirely new Chapter (17) in the *2008 HVAC Systems & Equipment Handbook* on Combustion Turbine Inlet Cooling, in record time (within one year).
- 2) Update of Research Strategic Plan was distributed by e-mail; want feedback by Feb. 22<sup>nd</sup>
- 3) 76 abstracts accepted, but only 50 papers provided for Albuquerque. Corrective actions were necessary. If selected to write a Conference paper, please make every effort to submit so corrective actions that affect all TCs are not necessary.
- 4) TC website – we need a volunteer for webmaster; webinar planned for this Spring to assist with setting up
- 5) Upcoming Program dates: 2/12 for Albuquerque Seminar and Forum proposals; 3/12 for final Technical and Conference papers for Albuquerque; 4/9 for Conference Paper Abstracts and Full

Technical Papers for Las Vegas; 8/ 6 for Las Vegas Forum and Seminar proposals. Much discussion and confusion on the new classifications of papers.

### **Roster Review**

5 rolling off after Albuquerque (Olsen, Gaston, Griffiths, Sachs, Hedrick) Mike Lubliner requested to roll back on. George Yaeger will become a voting member in July 2010.

### **Subcommittee Reports**

#### *Handbook (Gaston)*

TC 6.3 responsible for Applications Chapter 9, Design of Small Forced-air Heating and Cooling Systems. Handout provided with a proposed outline for the 2012 edition. Level headings revised. Chuck Gaston suggested a new Section with the heading, Idealized Systems vs. Common System Problems. This would be a general overview of current best practices with references to published paper(s). Haydock expressed that recommendations be supported and not just editorial. Additional reviewers and writers welcome. Current volunteers: Mike Lubliner, George Yaeger, Paul Haydock, John Stoops, Mark Olsen, John Andrews, Iain Walker, Dianne Griffiths

TC 6.3 also responsible for Applications Chapter 32, Furnaces. Additional reviewers and writers welcome. Current volunteers: Larry Brand, Charlie Adams, Jim Lutz, John Talbot, Harvey Sachs, Paul Haydock, Stephen Kowalski, Iain Walker.

Lubliner volunteered to do an ASHRAE literature review for papers to be cited. Requested citations for non –ASHRAE work from others.

#### *Programs (Olsen, Temple not present)*

A draft Program Plan is attached to these minutes.

The Building Cavities Seminar proposed for Orlando was not accepted. However, a paper by Hales and Baylon did get into Poster Session, Moving Ducts into Conditioned Space: Getting to Code in the Pacific Northwest, OR-10-050.

Mike L. tried to get 3 papers for Albuquerque, but authors did not come through. Baylon's paper came in and went to Orlando Poster Session.

The possibility of a Forum was discussed. "Introducing Std. 193 - How will it affect you?" Haydock questioned whether the Standard would be published and available for Forum. Key discussion points of forum will be the current size limitation of equipment to 3000 CFM. (People want to have it apply to larger boxes. The Forum may attract people qualified to make it applicable to larger boxes.) Educate on scope, i.e. what it applies to and how and where it may be adopted.

Cummings will possibly chair a session in Montreal. Abstracts are likely due in Sept. w/ papers in Mar. '11. RP 1449, Residential Humidity Control, will be a likely source for paper(s).

#### *Research (Lubliner)*

The research subcommittee chair encouraged people to comment on Research Plan online. M&V will be important with Stimulus spending on new equipment. Smart grid will add capabilities.

Proposal for Optimum Air Distribution Design. Tools for diffusers for low-flow conditions. Multiple systems vs. damper zoning systems.

Another proposal submitted for research project for low-loss HVAC ducting systems. Need to develop a RTAR. Lubliner will share submission.

Jeff Siegel gave update on RTAR 1563, “*Impacts of Duct Leakage on Residential Indoor Air Quality.*” Intend to complete WS by May 15 deadline for consideration in Albuquerque. Need to complete in advance for review and comment by liaison and vote for approval well in advance of that. The project fits nicely with the new 5-year plan. Jeff intends to increase emphasis on energy impact to align better with the 5-year Research Plan. Project will need a PMS and chair.

Section 6 Chair, John Dunlap, stated “You’re doing a good job. Only issue is your website.”

#### *Web Site*

Olsen noted that our website is currently very out of date. Really need a volunteer.

#### *ASHRAE Learning Institute (Gaston)*

See Page 22 in Conference Program. A show of hands indicated very little to no participation from those present in taking courses or teaching. ASHRAE is generally looking for course proposals from people interested in teaching. Compensation is not known. Current offerings are predominantly non-residential. Don Stevens may revive the 62.2 course.

#### *Standards*

Lubliner reported that Std. 193 has been through public review and approved. Thanked the committee.

Francisco discussed SPC 152R. They met Sunday morning. Good progress towards wrapping it up relatively quickly. The goal was June, but it will likely be by Las Vegas. They had added someone to the committee to cover refrigerant distribution, but that person promptly resigned. They now need to rethink whether to include refrigerant or not in the Title, Purpose and Scope.

#### **Old Business**

Temple slated to roll in as chair, but he has not been at past 2 meetings and has not been in communications. Walker volunteered to Chair and Crawford will serve as Vice Chair. Can Walker chair two TCs? There are provisions for Chair to stay for a 3<sup>rd</sup> year and allow time to determine Temple’s status.

#### **New Business**

Francisco had drafted a letter on concerns about changes to programs, but feels it’s now outdated with the latest changes. Concerns are that the changes have blurred the lines for acceptance for credit in the academic community. It’s now not worth their while. Siegel noted that research from this committee may not have a home within HVAC&R’s traditional focused topics. It remains to be seen.

Lubliner will serve TC9.5 as their Program Chair. Presented what he plans to propose as 9.5 Program (attached to these minutes). TC agreed to support proposed Forum for Albuquerque.

## **Adjournment**

The meeting adjourned at 2:45 p.m.

# ATTACHMENT 1

## Program Plan – TC 9.5, Draft 1 ml

### Albuquerque - June 2010

Forum Title - *Consumer Protection and the Energy Recovery Act*

Moderator - Michael Lubliner, WSU Energy Program

The federal stimulus package provides billions of dollars to create green jobs in the area of energy conservation and renewable energy systems. It is essential that consumers make well informed decisions regarding the selection of energy saving technologies and/or energy services from those promoting products and services. Some are concerned that a large influx of federal funding associated with the Energy Recovery Act may increase the number of “snake oil” products and services resulting in confusion in the market place resulting and consumers making unwise choices as they seek to improve residential energy efficiency. ASHRAE can play an essential role to help guide consumers, contractors and other interested parties towards to making the best choices when “going green”.

### Las Vegas - January 2011

Seminar Title - *Combined Heat and Power in the Residential Sector*

Seminar Chair - Mark David, NIST

Co-sponsor – TC 1.10?

Need seminar abstract, paper titles, abstracts and presenters.

### Montreal - June 2011

*Symposium Title – The use of ductless min-split heat pump to reduce resistance electricity space heating in existing Pacific Northwest residences*

*Symposium Chair: Michael Lubliner, WSU Energy Program*

Paper 1 - Billing Analysis results from a large utility pilot project billing impact evaluation on ductless mini splits heat pumps– Ecotope

Paper 2 –In-situ Monitoring results from a large utility pilot project on ductless mini split heat pumps – Ecotope

Paper 3 -:Laboratory monitoring results from a large utility pilot project on ductless mini split heat pumps – Ecotope

Paper 4 - Laboratory monitoring results on ductless mini split heat pumps and implications for equipment testing guidelines – NIST

TC 6.3 – Program Plan

January 2010

Meeting	Transactions	Seminar	Forum
Albuquerque June 2010  Energy Efficient System Design for High Elevations and Dry Climates  papers due 9/27/09 program due 2/7/10			<i>How will Standard 193 Effect You?(Lubliner)</i>
Las Vegas January 2011 Zero Energy Design	<i>Measured Performance of Small Forced-Air HVAC Systems (Francisco)</i>		
Montreal June 2011 Net-Zero Buildings	<i>Energy Efficient Approaches to Humidity Control (Cummings)</i>  <i>Advances in Duct Leakage Measurement (Stoops)</i>		
January 2012			

Forum: Duct and HVAC Insulation: sweating, noise, energy etc. (Stoops) Program approved for Louisville by TC but not accepted in Program