

**MINUTES**  
**ASHRAE TECHNICAL COMMITTEE 6.3**  
**CENTRAL FORCED AIR HEATING AND COOLING SYSTEMS**  
 Tuesday, June 26th, 2012  
 1:00 – 3:30 PM  
 Hilton Travis A/B (3)

1. Call to Order and Introductions
2. Review Agenda, Voting Membership (Roster update), Establish Quorum

Name	Rolloff
Walker, Iain (chair & standards)	2012 X
Crawford, Roy (vice chair & Secretary)	2013
Temple, Keith	2014
Lubliner, Mike (Research)	2014 X
Cummings, Jim	2012 X
Francisco, Paul	2013 X
Haydock, Paul	2012 X
Horak, Byron	2013 X
Nelson, Gary	2012
Rittelmann, Bill	2012
Yeager, George	2014
Douglas, Jon (program)	2015 X
Non-voting	
Gaston (handbook)	X
Dianne Griffiths (secretary)	
Eric Wilson (web)	

New members after his meeting: Judy Jennings, Dianne Griffiths, Bo Shen, & Charles Gaston, Diane Jakobs

Kevin Mercer will be the new program chair.

3. Approval of previous minutes

Motion: “Approve minutes of Chicago January 2012 meeting” with the addition of a note that Jon Douglas to be new chair and Diane Jakobs to be vice chair.

Approved 6 yes, 0 no, + 1 abstention (Paul Francisco was not present in Chicago)

4. Announcements
  - Report on TC/TG Chairs Meeting
  - Section 6 Liaisons
6. Subcommittee Reports
  - A. Handbook (Gaston)

Chapter 9: Design of Small Forced-Air Heating and Cooling Systems and Chapter 32: Furnaces were approved by letter ballot.

10 & 33 are new chapter numbers. Mike L. and Diane J. volunteered to assist Chuck.

#### B. Program (Jon)

*San Antonio meeting:*

*Conference Paper Session 8: Field and Laboratory Results from HVAC Maintenance Programs*

For Dallas Meeting:

July 9 – Final Conference Papers Submitted for Review□

Aug. 13 – Seminar, Forum, TPS and CPS Program Proposals Due□

Sept. 14 – Conference Papers Accept/Reject Notifications and Notifications of Seminar and Forum Accept/Reject Distributed□

Dec. 7 – Upload of PPTs Begin

For Denver

– RP1449 on humidity reporting in a Seminar.

- John Proctor suggested Residential Zoning technical paper + Someone from ACCA or AHRI or Possibly Roderick Jackson from ORNL.

- Ask Jeff Siegel to do a seminar about leaky rooftop units

- Jon Douglas suggested a seminar on field testing of economizer reliability requirements in Title 24, damper leakage, Bob Davis of Ecotope

- Seminar on fan performance in the future

- Kevin Mercer volunteers to be Program Subcommittee chair

- Mike Lubliner – Seminar sizing heat pumps and ACCA Manual S.

#### C. Research (Lubliner)

- RP1449 – project end date September 2012

- Final report completion date in August – circulate to TC by letter ballot

- John Proctor. 80 residence study in CA. 34% of ducted systems were multizone. 25% using auto dampers with bypasses. Six worst systems with worst watt draw per cfm were zoned systems with all zones calling. Single zone systems 340 cfm/ton (0.55 W/cfm). Multi-zone – one zone 240 cfm/ton (0.85 W/cfm). Efficiency loss from bypass (matched carrier data and ACCA design manual) was 17% for A/C and 4.4% on AFUE/Gas heating systems. Systems were adjusted and got 25% increase in efficiency. John Proctor to do a technical paper on these results.

- Research on how it could be done better with side by side houses doing flip-flop tests?

- Designing systems for low load homes & air distribution variability at low air flows (Jon Douglas and Dave Springer could write an RTAR)

- Judy Jennings: Installation issues. What do we need to provide to installers to get them to do a good job?

- AHRI 8002 Study impact of duct design on life cycle cost of residential HVAC systems – soon going out for bid.

- Mike Lubliner – round robin testing of home performance contracting is developing a guideline. Do an ASHRAE RP to use the guideline: go to contractors and ask for manual J, S & D and look at variability. Mike L. to prepare the RTAR.

- John Proctor – is oversizing really detrimental? Unoccupied test homes – two sized duct systems or long term monitoring in occupied homes. Talk to John Proctor about studies looking at sizing issue. Jim Cummings – looking at 2-ton vs. 3-ton in test house. Oversizing of variable capacity systems makes them more efficient and roughly 45% peak demand energy savings. Look at heating, cooling, peak load. Iain W. to work with Mike L. on RTAR.
- Dave Springer Building America projects. Home Performance Contractor guidelines, identifying and resolving problems. How much savings are left on the table by not paying attention to HVAC systems (Mike and Dave). Second project on solving the ducts in conditioned space problem using hot water distribution and small fan-coils.
- Fault detection devices in residential equipment. John Proctor – already in T24 – prototypes being tested this summer.

D. Standards (Walker): 62.2, 193

62.2 – new topics: filtration, 2013 version coming soon, new calculations removed default credit. 193 – Getting used and referenced. CA next version of Title 24 energy code + IECC. Coming up in Energy Star.

E. Web Site (Wilson)

Website is up to date – need Chicago approved minutes and add new society logo.

F. ASHRAE Learning Institute (Gaston)

5. Standards Project Committee Reports

A. Standard 152R (Francisco)

- Had been waiting for hydronic system to be revised
- We will change the title purpose and scope to remove refrigerant systems
- Revised Standard to be submitted later this year
- Possibility of removing hydronic systems into a separate standard (David Springer)

B. Standard 103 revision committee (Haydock)

- Incorporating mandatory language in standard 103.
- Standard has been revived as a Standing Committee. Will have a meeting in Dallas.
- Most of work is completed

6. New Business

7. Adjourn

Meeting adjourned at 3 p.m.