

**Minutes for
ASHRAE TC 6.3 Forced Air Heating and Cooling
Tuesday January 27, 2015 1:00-3:20 PM
2015 ASHRAE Winter Meeting, Chicago**

Call to Order

Chair Diane Jakobs opened the meeting with introductions and a review of the agenda and roster/voting membership.

Voting Members Present	Term Expires	Position	Affiliation
Diane Jakobs, PhD	06/30/2016	Chair	Rheem
Kevin Mercer	06/30/2017	Vice Chair	Carrier
Elbert Phillips	06/30/2018	Secretary	UNIES
Charles Gaston, PE	06/30/2016	Handbook SC Chair	Penn State
Mark Olsen	06/30/2018	Webmaster	Lennox
Lawrence Brand	06/30/2018		GTI
Byron Horak	06/30/2018		Intertek
Bryan Rocky	06/30/2016		Johnson Controls
William Roy	06/30/2016		Goodman

Voting Members Not Present

James Cummings	06/30/2017		Florida Solar
Bo Shen, PhD	06/30/2016		ORNL

Corresponding Members and Guests Present

Jon Douglas	CM		Lennox
Stephen Handcock	CM		Trane
Paul Haydock	CM		Carrier
Kirstin Heinemeier, PhD	CM	Research SC Chair	Western Cooling Efficiency
Roderick Jackson, PhD	CM		ORNL
Rahul Kolekar	Guest		Johnson Controls
Wayne Kraft	Guest		Ingersoll Rand/Trane
Ben Larson	Guest		Ecotope
Jeffrey Munk	CM		ORNL
Anuj Mistry	Guest		AHRI
Shawn O'Hara	Guest		SMACNA
Mary Opalka	Guest		AHRI
James Ranfone	CM		AGA
Mark Shoemaker	?	Program SC Chair	Carrier
Eric Werling	CM		DOE
Jon Wintler	?		NREL
George Yaeger	CM		Sears
Bingyi Yu	guest		LBNL

Moved by Byron Horak, seconded by Mark Olsen that Mark Shoemaker be appointed Program Chair.

Motion passed (7, 0, 0, CNV)

Moved by Byron Horak, seconded by Larry Brand that the minutes from the Seattle Meeting be approved.

Motion passed (7, 0, 0, CNV)

It was noted that minutes from the February 1, 2014 meeting in New York have not been approved yet. Chair Jakobs will do a letter ballot asking approval of these minutes.

Report on Standards

this should be passed by Paul for his blessing before being distributed

Paul Haydock reported on the progress of ASHRAE Standard Project Committee 103 (SPC 103) *Method of Testing for Annual Fuel Utilization Efficiency of Residential Central Furnaces and Boilers* which met Sunday, January 25. Revisions being made to the standard primarily relate to the need for the standard be written in mandatory language and include SI units to comply with ANSI requirements. Revisions are nearly complete. Recent changes in committee membership have resulted in the committee roster being “out of balance”; roster balance must be corrected before the committee can vote the draft standard out for Public Review. It is expected that these hurdles can be cleared in time for a spring letter ballot regarding issuing the standard for Public review, but it is unlikely that the Public Review will be completed before the June 2015 Annual Meeting in Atlanta. The committee hopes to address Public Review comments in conference calls and vote for publication in or before the January 2016 Winter meeting in Orlando.

Ben Larson reported that Standard 152-2014 *Method of Test for Determining the Design and Seasonal Efficiencies of Residential Thermal Distribution Systems* was recently ANSI Approved and published, so no immediate action is required.

ASHRAE Standard 193-2010 (RA 2014) *Method of Test for Determining the Airtightness of HVAC Equipment* (ANSI Approved) was recently reaffirmed, so no immediate action is required.

Research Activities Liaison Report

this should be passed by Stephen for his blessing before being distributed

Stephen Handcock, RAC Liaison reported that TC6.3 does not currently have anything on the Research “punch list”. If the committee does have ideas for research project, he encouraged the proponents to work closely with their RAC Liaison who will help them “get it right”.

He reported that ASHRAE provides Grants in Aid to Grad Students doing research relevant to the wide interest of ASHRAE membership, including for example, research related to pulmonary health of humans.

Report on Programs

this should be passed by Kevin and Mark for their blessing before being distributed

Kevin Mercer reported that TC6.3 co-sponsored two programs at this meeting, Seminar 13 *Variable System Field Results and Why Load Based Testing Is Needed for Residential Equipment Applications* and an open Session at the AHR EXPO titled *New 2015 Regional Standards and the Effects on Different Areas of the HVAC Industry*.

He then handed off Program Chair duties to Mark Shoemaker. Ideas for future programs were discussed. These include:

- Economizer performance
- RP 1608 – MOT for load based testing – Kirstin Heinemeier offered to take the lead – will contact Ashley Armstrong from DOE, Anuj Mistry, Karine??, Wade Smith from AMCA
- Fan Energy Rating (FER) for furnaces
- Thermostat controls
- Commissioning of residential HVAC systems
- Zoning of forced air systems
- Net Zero Energy (NZE) with ducted forced air systems/HVAC controls used in Solar Decathlon and/or Race to Zero houses
- Mini-split vs forced air systems – where is one better than the other

Report on Handbook

this should be passed by Chuck for his blessing before being distributed

Chuck Gaston reported he has completed his edits and changes to both Chapter 10 *Small Force-Air Heating and Cooling Systems* and 33 *Furnaces* for the 2016 *HVAC Systems and Equipment* handbook. Of note, he deleted materials related equipment no longer in the market, such as pilot lights and natural draft furnaces.

He emailed the revised chapters to committee members and is asking that they review the revised chapters and provide any commentary back to him by February 9, 2015. He will follow up with a letter ballot asking for approval so he can submit the revised scripts to ASHRAE before the deadline of April 12, 2015.

Chuck noted that TC6.3 will need to find a replacement for his as Handbook Sub-Committee chair for the 2020 handbook issue.

Report on Research

this should be passed by Kirstin for her blessing before being distributed

Kirstin Heinemeier provided the attached report on research ideas. Research ideas discussed in the meeting included:

- What is a good metric for evaluating the performance of central, ducted, residential, air-source heating and cooling heat pump systems? It was suggested that this question along with “who would use this metric?” could be posed as a Forum topic at an upcoming meeting. Kevin Mercer, Stephen Handcock and Anuj Mistry offered to begin work on an RTAR.
- Are the furnace cycle times specified in Standard 103 appropriate? Do furnace cycle times significantly impact furnace ratings? Diane Jakobs and Larry Brand offered to begin work on an RTAR.
- Standard 193 – is it needed? Is it used? Has it taught us any lessons?
- Right sizing – how to optimize duct size against static pressure. It was suggested that there may already be a research report or special publication on this. Kirstin will contact John Proctor and others to try to track down available information.

Kirstin has done a research project assessing the accuracy of HVAC instruments used by technicians in the field, and the importance of accuracy and system operation. She asked for volunteers to review the project results.

Website Report

Mark Olsen said the website is up to date, except the New York meeting minutes are not posted because they have not yet been approved.

Report on ASHRAE Learning Institute (ALI)

Chuck Gaston said persons that teach courses for ALI at ASHRAE conferences get paid for doing so. Anyone wishing to develop and teach a course for ALI should submit their course idea/curriculum and credentials/qualifications to ALI for consideration.

Adjournment

Having completed all business on the agenda, the meeting was adjourned at 3:20 PM