

## MEETING MINUTES

TC 6.5 - Radiant and Convective Space Heating & Cooling  
Chicago, IL  
January 23, 2012  
Monday, 2:15 pm – 4:15 pm

*Secretary: Dan Sullivan*

Incoming Chair: Bill Melvin  
Incoming Vice Chair: Him Ly

### I. **Call to Order:** 2:15 pm

**A. Roll Call:** Introduction of voting members, corresponding members, liaisons and guests. Eight voting members present, quorum does exist.

Mike O'Rourke  
Robert Bean  
Him Ly  
Richard Watson  
Bill Melvin  
Dave Nazzaro  
Marc Neufcourt  
Peter Simmonds

### II. **Approval of Minutes from Previous Meeting**

George Hoekstra made a motion to approve meeting minutes. Robert Bean 2<sup>nd</sup>. Voting Marc, Dave, George, Him, Robert, Peter. Passed 6-0.

### III. **TC Chairman's Breakfast Report**

Bill Melvin and John Dunlap

- A. New logo change,
- B. Members can not represent the view of the TC
- C. MTG (multi-discipline task group) to work together solving a problem,
- D. Speakers will pay \$100, starting in San Antonio. Pre-registration is to come down to \$370.
- E. YEA, great attendance, very successful.

#### IV. Subcommittee Reports

##### A. Program: (D. Abellon)

###### 1. Upcoming Conferences

- a. 2012 ASHRAE Annual Conference
  - i. June 23-28, 2012
  - ii. San Antonio, TX
  - iii. Focus: ?
  - iv. Seminar & Forum Proposals: **January 13 – February 13, 2012**
- b. Energy Modeling Conference
  - a. Atlanta, GA
  - b. October 1-3, 2012
  - c. Full Abstracts Due: **February 15, 2012**
- c. 2013 Conferences
  - i. Dallas, TX: January 26-30, 2013
  - ii. Denver, CO: June 22-26, 2013
- d. 2014 Conferences
  - i. New York, NY: January 18-22, 2014
  - ii. Seattle, WA: June 28- July 2, 2014

###### 2. Discussion

- a. Program opportunities for San Antonio:
  - i. Controls and controls modeling – Gary and Peter have articles .
  - ii. Slab configuration (Robert Bean)
  - iii. Controls for high humidity areas, Devin.
  - iv. Can we join forces with Standard 55 for a seminar, Addendum R for 90.1, Peter Simmond to investigate.

*Note: (Dan Sullivan – Later on in the conference, I learned that Room Air Distribution is proposing a seminar series in San Antonio on radiant cooling and displacement ventilation.)*

##### B. Standards:

1. 90.1 Committee Liaison (D. Watson), Energy Related Standards
  - i. Trying to move into the systems and performance direction. PNNL has modeled 16 different building types in Energy Plus. They are seeing that we are getting to the end of the energy efficiency spectrum and letting people decide how to meet the energy savings.
  - ii. For radiant in data energy centers, waiting on DOAS Standard of Test.
  - iii. 90.2 -trying to become the equivalent of 90.1 in the residential space.

2. SSP 55 Committee Liaison (R. Bean)

- i. Put out a user manual and have received two tenders. Project evaluation committee has been approved. Have some funding from ASHRAE, needs even more money.

C. Handbook: (P. Simmonds)

1. Chapter 6 was submitted –missed the deadline for the Handbook publication – plan to get this done for the CD. Chapter 53 will also be submitted in parallel for the CD update. Peter suggests that we get Chapter 6 done first and focus on Systems and Equipment scope. Look into Handbook Central for submittal rules and guidelines. Chapter 53 is now 54, under Applications.
2. Peter Simmonds proposes and motions TC 6.5 approve infrared chapter as fundamentals as is with no further additions in Systems and Equipments. Vote passes 5-0, 1 abstain. Peter proposes and motions to approve chapter 51 snowmelting as in with no further changes in Applications. Vote passes 5-0, 1 abstain.

D. ALI, Education, Publication: (R. Bean)

1. ALI Exergy short course. Will include radiant in the course. Working with Professor Diedrich Schmidt, TC 7.4. (Dr. Simmonds does not believe that there is such a thing as exergy. Group discussion on the definition of exergy.)

E. Research: (S. Hancock)

1. This TC is still looking for a new volunteer to chair research
2. Steve Hancock – RAC Liason report. No cost extention in February; going to vote today for extension on RP13-83. Hopper is getting empty for work statements, need to get more submittals in. Discussion on URPs (Unsolicited Research Proposals. Peter will propose the add-on research to RP-1383 as a new UPR.
3. Develop handbook on concrete installation (Robert Bean). Fix this in the handbook. Group consensus is that this is more of a handbook opportunity.

F. Snow and Ice Melting:

1. No updates.

V. **Old Business**:

- A. RP-1383 – Develop a radiant convective model for the simulation of space comfort. Biggest problem in the current contract is the direct solar radiation to the human body.

It's in the contract and in the scope. Copies to be circulated around with the work statement and prelim guide by Peter. Notes from Sunday's RP-1383 meeting:

- RP 1383 Meeting (Chicago)
  - o Three possibilities – HBX, Energy Plus, Manually
  - o Current Issues
    - Adjustments for effects of solar on occupant
    - Concave Rooms
    - RPE document
    - Testing
      - Internal
      - Committee
    - Final Report
    - Paper
  - o Chip will write a skeletal user guide (documentation)
    - Will distribute to the group (2-3 weeks, Feb 10<sup>th</sup>), beta version
    - Group will make comments on additions or other suggestions
    - Group will make comments on what may not be working
    - Peter will review against the scope
  - o What are we doing about the direct beam scope?
    - Need to simplify how to represent the comfort impact
  - o Extend out the contract, get an extension for San Antonio

- B. Peter made the motion to extend contract for 1383. Dave 2nd. Motion passed 6-0. (Marc, Dave, George, Bill, Him, Robert, Peter).

## VI. New Business:

### A. ACCA

ACCA is starting a radiant hydronic council. Richard Bowman would like to see a dialogue between TC 6.5 and ACCA. Glen Hourahan from ACCA spoke at the meeting to alert the committee of their desire to start the council. Mark Hudoba from Uponor also reached out to ACCA. RPA went over to IAPMO, California code body and is no longer affiliated with ACCA.

- B. Title 24 - Get the official report back. Report on the big box from WCEC. Mark Modera will report on the residential radiant cooling through GTI contract. (Abadjesh?) where are they with radiant? CEC results were positive. Connect with (Abadjesh?) on progress with Title 24.

- C. Standard 138 - Method of test for Radiant Ceiling Panel tests. The references need to be updated in the standard. Bill motions to reaffirm standard 138 with small editorial changes. Peter second. Pass 7-0. Richard Watson joined the meeting for 7<sup>th</sup> vote.

**Adjourned:** 4:15 pm (P. Simmonds), (seconded R. Bean)