

Minutes
TC 5.03 Research Subcommittee
1:00-2:00 PM, Sunday January 24, 2016
Orlando, Hilton Hotel, Lake Highland A (L)

1. **CALL TO ORDER – R. Zimmerman called meeting to order at 1:10 PM.**
2. **INTRODUCTION OF MEMBERS AND GUESTS**
3. **RECORDING OF ATTENDANCE**

Randy Zimmerman	Frank Cuaderno	Fred Bauman
Krishnan Viswanath	Mike Filler	Ray Sinclair
Curtis Peters	Andrey Livchak	Yan Chen
Klint Leete	Paul Lin	Jose Palma
Jack Stegall	Kevin Gebke	Mo Hosni
Fred Lorch	Harris Sheinman	Kim Hagstrom
David John	Kevin Cash	Julian Rochester
Atila Novoselac	Gaylon Richardson	
Hideyuki Amai	Byron Hagan	

4. **AGENDA REVIEW**
5. **APPROVAL OF ATLANTA MINUTES – Atlanta, 2015 minutes were approved.**
6. **REPORTS ON CURRENT RESEARCH PROJECTS**

- 6.1. RP-1546 *Expansion and Update ADPI for Overhead Mixing Systems in Both Heating and Cooling* (PMS Chair David John) – D. John reported that the final report has been approved by a TC ballot vote so this project is now complete. He will work to refine the results of this project to create guidelines for users. This will likely result in an ASHRAE Journal article.
- 6.2. RP-1629 *Testing and Modeling Energy Performance of Active Chilled Beam Systems* (PMS Chair David Pich) – A PMS meeting took place earlier today. J. Zhai provided a full update to the PMS and later an overview update to the chilled beam subcommittee meeting.

7. **REPORTS ON TENTATIVE RESEARCH PROJECTS**

- 7.1. TRP-1666 *Experimental Evaluation of the Thermal and Ventilation Performance of Stratified Air Distribution Systems Coupled with Passive Chilled Beams* (PES Chair R. Zimmerman) – Bids have been received and were evaluated by the PES during a meeting on 01/23/16. The PES will present their recommendation to the TC for approval on 01/25/16. If approved the project will go back to RAC.

8. **REPORTS ON CURRENT WORK STATEMENTS**

- 8.1. WS-1729 *Experimental Verification of Cooling Load Calculations for Radiant Systems* (TC 4.01 Project, John Bade) – F. Bauman reported that this project has been approved with possible minor changes.
- 8.2. WS-1741 *Understanding Fan Coil Components and How They Relate to Energy Consumption and Energy Modeling* (Byron Hagan) – On 01/23/16 RAC conditionally approved this project so long as it receives co-sponsorship from TC 4.7 and references Standard 205. D. John and B, Hagan will work to make this happen.

9. **REPORTS ON CURRENT RTARS**

- 9.1. RTAR *Ventilation Effectiveness of Active Chilled Beam Systems* (Tom Rice) – F. Bauman questioned the difference between ACB and overhead difference with regard to ventilation effectiveness. T. Rice wasn't present to discuss.
- 9.2. RTAR *Hot Water Coil Performance* (David John/John Bade) – D. John will continue to work with J. Bade and take into account the latest changes to AHRI 410.
- 9.3. RTAR *Air Curtains* (Frank Cuaderno) – F. Cuaderno reported that he needs the results from current research and input from TC 4.7 in order to complete this RTAR.
- 9.4. RTAR *Sound Transmission Through UFAD Floor Systems for Noise Sources in the Floor Plenum* (Chris Burroughs/Randy Zimmerman)

10. NEW RESEARCH TOPIC PROPOSALS

11. OTHER BUSINESS

12. ADJOURNMENT – R. Zimmerman adjourned the meeting at 1:44 PM.