

Minutes
TC 5.03 Research Subcommittee

1:00-3:00 PM, Sunday June 28, 2015
Atlanta, Hilton Hotel, Pavilion 6

1. **CALL TO ORDER – Meeting called to order by Randy Zimmerman at 1:08 PM.**
2. **INTRODUCTION OF MEMBERS AND GUESTS**
3. **RECORDING OF ATTENDANCE – Attendance sheet was circulated.**

Randy Zimmerman	George Hamad	Karl Peterman
Frank Cuaderno	Ryan Johnson	Andrew Jenkins
Jack Stegall	David Pich	Van Baxter
Gus Faris	Jim Aswegan	Kevin Gebke
Chad Huggins	Mike Filler	Krishnan Viswanath
Steve Purdie	Ken Loudermilk	Julian Rochester
Byron Hagan	David John	Jose Palma
Curtis Peters	Atila Novoselac	
John Bade	Kevin Cash	

4. **AGENDA REVIEW**
5. **APPROVAL OF CHICAGO MINUTES – Minutes from the previous meeting 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) – A project update was provided by David John and Atila Novoselac. The project is complete and the final report will be sent out soon to all PMS members for their approval. A paper is being presented at this meeting and a symposium will be planned for St. Louis in June, 2016.
- 6.2. RP-1629 *Testing and Modeling Energy Performance of Active Chilled Beam Systems* (PMS Chair David Pich) – An update was provided by David Pich. Testing has begun and will be completed by June, 2016. A PMS visit to the test facility is scheduled for September 9, 2015.

7. **REPORTS ON CURRENT WORK STATEMENTS**

- 7.1. WS-1666 *Experimental Evaluation of the Thermal and Ventilation Performance of Stratified Air Distribution Systems Coupled with Passive Chilled Beams* (F. Bauman, J. Rimmer, Z. Poots, D. Pich, D. Fisher) - Submitted to RAC on 05/15/15 and approved on 06/27/15. Need to form a PES. Kevin Cash has volunteered to be PES Chair.
- 7.2. WS-1729 *Experimental Verification of Cooling Load Calculations for Radiant Systems* (TC 4.01 Project, TC 5.03 Co-Sponsor) – Submitted to RAC on 05/15/15 and approved with comments on 06/27/15. Will contact TC 4.01 to get John Bade on the PES.
- 7.3. WS-1741 *Understanding Fan Coil Components and How They Relate to Energy Consumption and Energy Modeling* (Byron Hagan) – Co-sponsored by TC 7.07 (Testing and Balancing). Submitted to RAC on 05/15/15 and returned for clarification on 06/27/15. Although they saw value in the research, they wanted more information regarding unit capacities, flow ranges, etc to be tested. Byron will work with others to address written comments as soon as they are received.

8. REPORTS ON CURRENT RTARS

- 8.1. RTAR *Ventilation Effectiveness of Active Chilled Beam Systems* (Tom Rice) – Not present at meeting.
- 8.2. RTAR *Hot Water Coil Performance* (David John/John Bade) – Although this possible research project originally involved research into low temperature and low velocity water flow, it was suggested today that perhaps it could be included in a project to test and model the performance of forced air hot water coils. David and John will look into this further and decide how to proceed.
- 8.3. RTAR *Air Curtains* (Frank Cuaderno) – Frank will work with others to write RTAR following the completion of privately financed research testing to be completed on August 10, 2015.

9. NEW RESEARCH TOPIC PROPOSALS

- 9.1. RTAR *Sound Transmission Through UFAD Floor Systems for Noise Sources in the Floor Plenum* (Chris Burroughs) – This research project was suggested during today's UFAD subcommittee meeting. Discussion continued and it was suggested that this might be more appropriately handled by TC 2.06 (with a TC 5.03 co-sponsor). Randy Zimmerman will discuss with TC 2.06 Research Chair (Curt Eichelberger) and report back to the RTAR author.

10. OTHER BUSINESS

11. **ADJOURNMENT** – The meeting was adjourned by Randy Zimmerman at 2:00 PM.