

MEETING MINUTES

TC 1.2 Instruments and Measurements

Dallas, Texas, USA, January 29, 2013

Place: Sheraton Dallas Hotel; Live Oak Room

These draft minutes have not been approved and are not the official, approved record until approved by this committee. Votes cast during this meeting are in the format #for-#against-#abstain-#absent.

1. MEETING:

1.1. The meeting was called to order at 1:00 p.m. by Chairman, Steve Idem. Introductions were made. In attendance were all 5 official committee members. A minimum of 6 committee members is required to conduct official business, and TC1.2 roster officially lists only 5 members at present. As a result, no official committee business was able to be conducted at this meeting. See “11. MEMBERSHIP” in these minutes for further discussion.

1.2. In addition to the official members, there were 5 Corresponding Members present, and 5 visitors (3 of whom expressed interest in becoming CMs) for a total of 15 people in attendance.

2. AGENDA:

2.1. Steve Idem reviewed the items on the Agenda. No revisions were suggested.

2.2. Proposed agenda was approved 5-0-0-0.

3. MEETING MINUTES:

3.1. The committee reviewed the draft minutes of the Summer 2012 meeting in San Antonio, TX prepared by Paul Grinberg.

3.2. There were some edits required to the draft minutes. The revised draft minutes will be distributed prior to this summer’s meeting in Denver, to be reviewed and voted on at that meeting.

4. LIAISON REPORTS:

4.1. Victor Penar, TAC Section 1 Head, covered the following topics:

4.1.1. Membership: TC 1.2 is small in its membership numbers. Victor suggested that TC1.2 solicit members in the Journal, on the ASHRAE website, and at universities (student chapters).

4.1.2. Victor also checked with the committee concerning the status of the Fundamentals Handbook Chapter 36. Terry Beck reported that the update is on track to be completed on time.

4.2. Section 1 Research Liaison covered the following topics:

4.2.1. The close-out paperwork (Disposition of Research Results) for RP-1245

“Determining the Effects of Duct Fittings on Volumetric Air Flow Measurements” is due.

4.2.2. The Board of Directors (at society level) will re-write the Strategic Plan next year.

4.2.3. ASHRAE is planning to have hyperlinks in research.

4.2.4. The RTAR (Research Topic Acceptance Request) process will change – planning for roll-out at Denver meeting. RTARs are to take the form:

- Title (Never use the word “Guideline” in the title)
- Knowledge Planned to Obtain (explain what that knowledge is good for)
- Cost

4.2.5. Advice: Always run an RTAR through the Liaison. This will help the “Slam Dunks” to be fast-tracked to the Work Statement phase directly.

5. SSPC 41 Report by Chair:

5.1. Chairman Jim Douglas reported the following: SSPC41 met on Sunday, January 27. Each committee reported.

5.1.1. Subcommittee 41.1, Pat Collins, Chair; *Standard Methods for Temperature Measurement*. This standard has been approved for publication by ASHRAE Standards Committee.

5.1.2. Subcommittee 41.2, Terry Beck, Chair; *Standard Methods for Airflow Measurement*: Met on Monday. Working on a re-layout to include Air Velocity & Flow. If not able to do so, a change to TPS would be required to exclude Air Velocity.

5.1.3. Subcommittee 41.3, Frank Spevak, Chair; *Standard Method for Pressure Measurement*. Met on Sunday. Aiming to have re-write complete so the subcommittee could approve prior to Denver meeting. Then it would go to public review. Currently reviewing re-write for mandatory language. Rick Hall is reviewing the Bibliography. James Shafer volunteered to provide an example for the Uncertainty Analysis section.

5.1.4. Subcommittee 41.4, Jim Douglas, Chair; *Standard Methods for Proportion of Lubricant in Liquid Refrigerant Measurement*. One calculational error was found and corrected. Currently being reviewed for mandatory language. Planning a subcommittee letter ballot for approval in February 2013.

5.1.5. Subcommittee 41.6, Pat Collins, Chair; *Standard Methods for Humidity Measurement*. Being reviewed for mandatory language. Bibliography under construction. 100% draft due in Denver – aiming for letter ballot to the SSPC41 prior to meeting in Denver.

5.1.6. Subcommittee 41.7, John Scott, Chair; *Standard Methods for Measurement of Gas Flow*. Aiming to complete by January, 2014.

5.1.7. Subcommittee 41.8, John Scott, Chair; *Standard Methods for Measurement of Liquid Flow*. The re-write will springboard off the 41.7 standard. Aim is to complete by January, 2015.

5.1.8. Subcommittee 41.9, Rick Hall, Chair; *Standard Methods for Volatile Refrigerant Mass Flow Measurement Using Calorimeters*. Now in publication.

5.1.9. Subcommittee 41.10, Shane Angle, Chair; *Standard Methods for Volatile Refrigerant Mass Flow Measurement Using Flowmeters*. Out for public review. Results are due in February, 2013.

5.1.10. Subcommittee 41.11, Rick Hall, Chair; *Standard Methods for Power Measurement*. A final draft is due for the Denver meeting. (This standard will be sold bundled with the IEEE Power Standard.)

5.1.11. For further information about SSPC 41, please refer to meeting notes from that committee.

6. TC/TG CHAIRMAN'S BREAKFAST MEETING:

Steve Idem reported.

6.1. The status of TC1.2 was discussed (due to low number of voting members.)

6.2. For further information on proceedings from the breakfast meeting, consult the ASHRAE website.

7. HANDBOOK:

Terry Beck reported.

7.1. Galley proofs have been reviewed and corrected.

7.2. Terry will submit in final form to ASHRAE next week.

7.3. Publication is due in early part of 2013.

8. RESEARCH:

8.1. Frank Spevak reported on the research meeting.

8.1.1. Current Research status:

8.1.1.1. 62 projects are active

8.1.1.2. Approximately \$12M total

8.2. RTAR 1636, relating to ... *High Accuracy Relative Humidity (RH) Sensors*, is to be re-written. It was returned to the TC with comments from RAC.

9. STANDARDS:

This item can be eliminated from the agenda. Standards are covered in section 5 of these notes.

10. PROGRAMS:

10.1. Follow-up of RP1245: Terry Beck is to have a finished paper (ready to distribute for Peer Review) by April 19, 2013. This will be the first of possibly two or more papers resulting from RP1245.

10.2. Possible additional Conference Paper pertaining to RP1245: Discussion of Different Definitions of Standard Air (IP vs. SI)? James and Terry to explore.

10.3. Possible Seminar (something of an offshoot of RP1460 “Design specifications for wet-bulb aspirator apparatus”):

- Pitfalls of Environmental Chamber Testing
- Methodology of Calculations during Environmental Chamber Testing

11. MEMBERSHIP:

Due to the roster crisis (low membership number of TC1.2) and emergency roster change request will be submitted to enact VM status to Jim Scott. In addition, a normal roster change request will be sought to immediately re-instate VM status to Jim Douglas. Looking forward: Charlie Wright to roll off roster in 2014. Aim to roll on to the roster James Schaefer in January 2014.

12. WEBSITE:

Frank Spevak: No new business.

13. NEW/UNFINISHED BUSINESS:

Nothing discussed.

14. ADJOURN MEETING:

14.1. Jim Douglas moved that the meeting be adjourned, John Scott seconded, and the motion was approved 5-0-0. The meeting adjourned at 3:18 p.m.

ATTENDEES:

Voting Members: Steve Idem, Mike Wegenka, Charlie Wright, David Yuill, Terry Beck

Corresponding Members: Pat Collins, James Douglas, John Scott, James Shafer, Frank Spevak