

(DRAFT) MEETING MINUTES

TC 1.2 Instruments and Measurements

Denver, Colorado, USA, June 25, 2013

Place: Sheraton Denver Hotel; Room 336

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. 14 persons were in attendance of the meeting and of the attendees, 4 voting members of the 6 official committee members were in attendance, so a quorum was available.

2. AGENDA:

- 2.1. Steve Idem reviewed the items on the Agenda. No revisions were suggested.
- 2.2. The proposed agenda was approved 4-0-0-2.

3. MEETING MINUTES:

- 3.1. A motion was made to approve the delayed San Antonio minutes by David Yuill and seconded by Mike Wegenka. The motion was approved 4-0-0-2.
- 3.2. A second motion was made to approve the Dallas, TX meeting minutes by David Yuill and seconded by Mike Wegenka. The motion was approved 4-0-0-2.

4. LIAISON REPORTS:

- 4.1. Victor Penar, TAC Section 1 Head, covered the following topics:
 - 4.1.1. Victor checked with the committee concerning the status of the Fundamentals Handbook Chapter 36. Terry Beck reported that the update was finished and delivered on time.
 - 4.1.2. New biography forms and meeting minute forms have been prepared by ASHRAE.
 - 4.1.3. Vic gave Steve Idem a "Certificate of Appreciation" for completing his term as Chair of TC 1.2.

5. SSPC 41 Standards Report: Jim Douglas

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5.1. A report was given addressing the following: SSPC41 met on Sunday, January 27. Each committee reported on their current status as of June 23rd. Then the committees held their scheduled meetings and presented the following progress reports:

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. The next review cycle will be needed by 2018.

5.1.2. Subcommittee 41.2, Terry Beck, Chair; *Standard Methods for Airflow Measurement*: The subcommittee met on Monday for a 4 hour session. They are working on a re-layout to include Air Velocity & Flow. Much work was accomplished at the meeting and about 2/3 of the revised document was completed. An interim meeting was planned for fall. January 2015 is the scheduled completion date.

5.1.3. Subcommittee 41.3, Frank Spevak, Chair; *Standard Method for Pressure Measurement*. The subcommittee met on Sunday. It was reported that everything was completed at the meeting including a calibration section. A letter ballot will be sent out in the next two weeks. Then it would go to public review.

5.1.4. Subcommittee 41.4, Jim Douglas, Chair; *Standard Methods for Proportion of Lubricant in Liquid Refrigerant Measurement*. The subcommittee met on Monday morning and completed the review document and it has been submitted to Rick Hall for a letter ballot followed by the public review process.

5.1.5. Subcommittee 41.6, Pat Collins, Chair; *Standard Methods for Humidity Measurement*. Committee met on Monday morning and completed the final review document and it will be submitted to Rick Hall for a letter ballot followed by the public review process.

5.1.6. Subcommittee 41.7, John Scott, Chair; *Standard Methods for Measurement of Gas Flow*. A 4 hour meeting was held on Tuesday morning and about 2/3 of the document was reviewed and edited. Some sections were tabled until more information can be received. Aiming to complete the revision 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. The aim is to complete the revision by June, 2015.

5.1.8. Subcommittee 41.9, Rick Hall, Chair; *Standard Methods for Volatile Refrigerant Mass Flow Measurement Using Calorimeters*. Now in publication and will need to be reviewed prior to 2017.

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5.1.9. Subcommittee 41.10, Shane Angle, Chair; *Standard Methods for Volatile Refrigerant Mass Flow Measurement Using Flowmeters*. Now in publication review.

5.1.10. Subcommittee 41.11, Rick Hall, Chair; *Standard Methods for Power Measurement*. A final draft is presently under public review until July 2013 then on to publication (This standard will be sold bundled with the IEEE Power Standard-120.)

5.2. Subcommittee for Standard 23.1, Although this committee is not the TC for this Committee work, Margaret Mathison reported that the committee is just forming and they had a preliminary meeting on Monday afternoon and began the process of reviewing a draft of the standard. She was offering an invitation to attend the next meeting in New York.

5.3. Guideline 2 was discussed including a debate about whether the guideline was required to be reviewed for mandatory language. A motion was made to reaffirm the standard by David Yuill and Mike Wegenka seconded the motion. No further discussion was done and the motion passed to reaffirm with a vote of 4-0-0-2.

6. TC/TG CHAIRMAN'S BREAKFAST MEETING: Steve Idem

6.1. The status of TC1.2 was discussed (due to low number of voting members at the last meeting.) Emergency measures were approved by ASHRAE and we have a quorum at this meeting.

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

7. HANDBOOK: Terry Beck

7.1. Galley proofs have been reviewed and corrected.

7.2. Publication was due in the early part of 2013 and members indicated that the new edition had been received .

7.3. The work is always continuing so Terry reminded the committee that we will continually update the standard and the next publication will be in 4 years (2017).

7.4. Van Baxter will be the new liaison for the handbook.

8. RESEARCH: Frank Spevak

8.1. A report on the research meeting.

8.1.1. Current Research status:

8.1.1.1. 58 projects are active

8.1.1.2. Approximately \$11M total

Comment [J1]: Frank will send a report

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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. James Schaefer offered to champion a reformatted submission of the RTAR.

8.3. Pat Collins questioned the ASHRAE policy on research work done in regard to some form of service recognition. Frank offered to review the subject with the Research committee.

9. PROGRAMS: Steve Idem

Follow-up of RP1245: Terry Beck has a finished paper (ready to distribute for Peer Review). This will be the first of possibly two or more papers resulting from RP1245.

10. MEMBERSHIP: Steve Idem

Due to the roster crisis (low membership number of TC1.2) and emergency roster change request was submitted to enact VM status to Jim Douglas and was approved by ASHRAE for this meeting. Next meeting voting membership will be increased to 7 members. Terry Beck, Charles Wright, David Yuill, Jim Douglas, Frank Spevak, John Scott, and James Schaefer.

Steve Idem ended his term as chairman and Terry Beck will be the new chairman.

11. WEBSITE: Frank Spevak

Frank Spevak: No new business currently update in February/March to be current to the January meeting..

12. NEW/UNFINISHED BUSINESS:

A discussion of a thermal energy (BTU meter) was briefly discussed pertaining to a possible new standard.

13. ADJOURN MEETING:

13.1. Jim Douglas moved that the meeting be adjourned, John Scott seconded, and the motion was approved 4-0-0-2. The meeting adjourned at 3:05 p.m.

ATTENDEES:

Voting Members: Steve Idem, Jim Douglas, Mike Wegenka, David Yuill, Terry Beck

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

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Others in attendance: Mark Kedzierski, Margaret Mathison, Jody Templeton, Dave Dorsde

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