

MEETING MINUTES

TC 1.2 Instruments and Measurements

Montreal, Quebec, Canada, June 28, 2011

Place: Montreal Hilton; Ponte-Aux-Trembles Room

These minutes have been approved by this committee and are the official record of the meeting.

Votes cast during this meeting are in the format #for-#against-#abstain-#absent.

1. MEETING:

- 1.1. The meeting was called to order at 1:05 p.m. by Chairman, Pat Collins. Introductions were made and a quorum was established with 6 of 7 voting members present.
- 1.2. VM Jim Douglas announced his upcoming retirement from Tecumseh, and from ASHRAE. Jim will attend two more ASHRAE meetings. His replacement at Tecumseh will participate on SSPC41, but will not join TC1.2.

2. AGENDA:

- 2.1. Pat Collins reviewed the items on the Agenda. No revisions were suggested.
- 2.2. Charlie Wright volunteered to serve as secretary. There was a collective sigh of relief, accompanied by a palpable sense of foreboding.

3. MEETING MINUTES:

- 3.1. The committee reviewed the Las Vegas minutes prepared by Pat Collins.
- 3.2. Frank Spevak moved to accept the minutes with no revisions. John Scott seconded. The minutes were approved 6-0-0-1.

4. LIAISON REPORTS:

- 4.1. Victor Penar, TAC Section 1 Head, covered the following topics:
 - 4.1.1. The TC website looks great. (Thank you Frank Spevak!)
 - 4.1.2. TC membership must be updated for the roster changes that will occur in July.
 - 4.1.3. TC chair to fill out activity form by end of this conference: drop in mailbox in Fairmont Hotel.
 - 4.1.4. Conference papers are due in July, Seminar papers due in August. Check ASHRAE website for due dates.

4.1.5. A Certificate of Appreciation was awarded to outgoing TC Chair Pat Collins, accompanied by warm applause by the TC. (Applause participants: 5-0-1-1)

5. MEMBERSHIP/ROSTER:

5.1. Roster changes to become effective July 1, 2011:

5.1.1. Rolling off Voting Member status: outgoing Chairman Pat Collins; retired Secretary Ron Moncrief

5.1.2. Rolling on as Voting Members: David Yuill; incoming Vice Chairman Terry Beck; incoming Chairman Steve Idem.

5.1.3. TC1.2 will have 8 Voting Members. 5 VM will be needed to establish a Quorum.

6. TC/TG CHAIRMAN'S BREAKFAST MEETING:

6.1. Steve Idem reported the following;

6.1.1. There is a minimum of 6 VM required for each TC.

6.1.2. TC's are reminded to have their websites up and running.

6.1.3. Employer's letters to thank members for their service to ASHRAE are available.

6.1.4. A new group is being established within ASHRAE. The Multidisciplinary Task Group (MTG) is being formed to coordinate and deal with inter-TC group efforts and issues. The MTG will be the Implementation Group overseeing the annual "President's Theme", for example.

6.1.4.1. Membership: Voting Member must be endorsed by the Section Head

6.1.4.2. There will be no minimum membership number requirement.

6.1.4.3. Members will be re-confirmed by the Section Head each year.

7. HANDBOOK:

7.1. Terry Beck reported.

7.2. TC 1.2 responsible for 2013 Fundamentals Chapter 36 (*Measurements and Instruments*)

7.3. Handbook committee met 27JUN2011

7.4. Final proposed revisions are due 31MAY2012. Terry Beck will submit revisions.

7.5. Terry distributed a sign-up sheet arranged by chapter sections

7.5.1. TERMINOLOGY section is to be reviewed by all TC1.2 members

7.5.2. EXAMPLES section: we need ideas to fill out this section

7.5.3. Terry asked for help soliciting assistance on sections where TC1.2 members do not have expertise

7.5.3.1. Discussion re: lack of expertise: Is there a way to create a more formalized process to coordinate with other TC's, for example?

7.5.3.2. Suggestion re: lack of expertise: TC1.2 member to contact relevant TC Handbook subcommittee chair to ask for help to review said section (copy TC chair also).

7.5.4. Requesting submission of more examples to help clarify/illustrate issues/topics

8. RESEARCH:

8.1. Frank Spevak reported on the research meeting.

8.1.1. It is reported that the Greater Philadelphia Innovation Cluster (GPIC) has money available: perhaps \$2M/yr for 5 years. Stressing innovation. ASHRAE members encouraged to consider this as possible resource for additional research funding.

8.1.2. ASHRAE is reportedly back to "normal" with respect to research funding and the number of proposed projects. Members are encouraged to "keep going" in pursuit of vital research projects.

8.1.3. The question of "Why was our RTAR returned?" was addressed at the meeting. Typically it is because of one or both of the following:

8.1.3.1. Need more detail in the description of work

8.1.3.2. Need a breakdown of proposed costs

8.1.4. ASHRAE has initiated a new category for "Innovative" research, with monies allocated (\$50k/yr for 2 years). The process of awarding funding for qualified projects is intended to be ongoing from year to year. ASHRAE will be taking 15 proposals, which will be cut to 5, from which one will be selected each year. The proposals are to be in the form of a 2-page "White Paper". These are due August 15.

8.2. RESEARCH RP-1245: *Determine the Effect of Duct Fittings on Air Velocity Measurements*. A draft of the Final Report was given to the PMS on 27JUL11. The PMS has a deadline of Sep 15 to review the draft. (There was some discussion about whether it is allowed to distribute a RP Final Report to TC VM's prior to the TC voting for RP approval. It is allowed, according to RAC Section I Head Art Giesler.)

8.3. RTAR 1636, relating to ... *High Accuracy Relative Humidity (RH) Sensors*, needs to be re-submitted. Due date for re-submission assumed to be Aug 15. Pat C. will handle re-submission. Frank S. will review RTAR prior to re-submission to edit for goal orientation. Art G. volunteered to review the RTAR prior to re-submission for his advice on content. TC1.2 needs to approve the revised RTAR by letter ballot prior to re-submission.

9. STANDARDS:

9.1. Jim Douglas reported that the SSPC 41 Standards Committee met on Sunday and attendance was good. Jim and others discussed the status of each 41 series standards subcommittee. For more details see the SSPC 41 minutes on the TC 1.2 website.

9.2. SSPC 41 Status Reports from Subcommittee Chairs:

9.2.1. Subcommittee 41.1, Pat Collins, Chair; *Standard Methods for Temperature Measurement*: All major open issues have been discussed and resolved. Goal: Draft to be reviewed by subcommittee at January meeting, but the document won't be ready to give to SSPC41 for approval until after JAN2012 meeting.

9.2.2. Subcommittee 41.2, Terry Beck, Chair; *Standard Methods for Airflow Measurement*: Subcommittee met to discuss the following:

9.2.2.1. Add Air Velocity Measurement to TPS; (subcommittee decided to pursue this)

9.2.2.2. Remove "Laboratory" from TPS; (subcommittee decided to pursue this)

9.2.2.3. Add "Field Measurement" to TPS; (subcommittee decided not to pursue this)

- The subcommittee drafted a new TPS, and will pursue acceptance of the change to the TPS from SSPC41
- This will change expected completion date. The new goal for the release date for Public Review is TBD.

9.2.3. Subcommittee 41.3, Frank Spevak, Chair; *Standard Method for Pressure Measurement*: An alternate form of layout for the standard has been proposed by Rick Hall, and is under consideration by the subcommittee.

9.2.4. Subcommittee 41.4, Jim Douglas, Chair; *Standard Methods for Proportion of Lubricant in Liquid Refrigerant Measurement*: The subcommittee finished reviewing/rewriting the standard at their meeting. A few "touch-ups" are still in progress:

- A new annex with common refrigerant densities is being added
- Still need to do SI – IP units conversion

9.2.5. Subcommittee 41.6, Pat Collins, Chair; *Standard Methods for Humidity*

Measurement: Still intending to go to Public Review in parallel with Std 41.1.

- Will remove the Aspirated Wet Bulb Psychrometer information from Std 41.1. It will reside only in Std 41.6
- Subcommittee is still distilling results from RP1460 to include in the std
- Goal is to have the subcommittee able to approve a new draft of the std at or soon after the JAN2012 meeting

9.2.6. Subcommittee 41.7, John Scott, Chair; *Standard Methods for Measurement of Gas*

Flow:

- Removing “volatile” from TPS
- Scope has been slightly re-stated during the posting process to the ASHRAE website
- Good progress on the review/rewrite is underway

9.2.7. Subcommittee 41.8, John Scott, Chair; *Standard Methods for Measurement of*

Liquid Flow:

- No progress to report
- Plan to follow Std 41.7 format

9.2.8. Subcommittee 41.9, Rick Hall, Chair; *Standard Methods for Volatile Refrigerant*

Mass Flow Measurement Using Calorimeters:

- No report was presented at the meeting.

9.2.9. Subcommittee 41.10, Shane Angle, Chair; *Standard Methods for Volatile*

Refrigerant Mass Flow Measurement Using Flowmeters: As reported by Jim Douglas:

- Removing “Volatile” from Title

9.2.10. Subcommittee 41.11, Rick Hall, Chair; *Standard Methods for Power Measurement*:

As reported by Jim Douglas:

- Subcommittee received new information relating to the std that needs review
- An interim meeting by the subcommittee in September is tentatively planned
- Subcommittee is pushing to have a substantive review at the JAN2012 meeting with a goal of having the std completed in the summer of 2012.

10. PROGRAMS:

10.1. Steve Idem reports that an Aug 18 deadline applies for the JAN2012 Winter Meeting. A Seminar program based on preliminary results of RP1245 will be proposed by TC1.2. This seminar will be deferred until the San Antonio meeting in 2012. The deadline for submission of the program package to ASHRAE is February 13, 2012.

10.2. Terry Beck and Charlie Wright again discussed a seminar that would discuss low velocity measurements with pitot tubes and the directional effects of airflow on flow measurements and what to do with negative velocity pressure readings in traverses. A preliminary presentation on the findings of RP1460 could also be included. Steve will contact Terry and Charlie about this seminar proposal.

11. WEBSITE:

- No discussion of this agenda item occurred.

12. OLD BUSINESS:

- No discussion of this agenda item occurred

13. NEW/UNFINISHED BUSINESS:

- No discussion of this agenda item occurred

14. ADJOURN MEETING:

14.1. Jim Douglas moved that the meeting be adjourned, John Scott seconded, and the motion was approved 7-0-0. The meeting adjourned at 3:38 p.m.

ATTENDEES:

Voting Members: Patrick Collins, James Douglas, John Scott, Frank Spevak, Mike Wegenka, Charlie Wright

Corresponding Members: Terry Beck, Steve Idem, David Yuill

Absent: Ron Moncrief (VM – Retired)