

**Meeting Minutes**  
**TC 1.2 Instruments and Measurements**  
San Antonio, TX, USA, June 26, 2012  
*Place: Henry B Gonzalez Convention Center 003A(R)*

*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. This meeting was called to order at 1:01pm by Chairman, Steve Idem. Introductions were made and a quorum was established with 6 of the 8 voting members present. One voting member had to leave for a part of the meeting, leaving 5 of 8 voting members.

## **2 AGENDA**

1. Steve Idem reviewed the items on the Agenda. No revisions were suggested.
2. Proposed agenda was approved 6-0-0-2.

## **3 MEETING MINUTES**

1. The committee reviewed Chicago minutes prepared by Charlie Wright.
2. Frank Spevak moved to accept the minutes with no revisions. James Douglas seconded. The minutes were approved 6-0-0-2.

## **4 LIAISON REPORTS**

1. Vic Penar, TAC Section 1 Head, stopped by to review ASHRAE updates
  - a. When requesting programs, make sure they are well written
  - b. Speaker registration fees are being increased to \$95. Regular registration fees lowered by \$100
  - c. Speakers will be graded and given feedback. If speaker gets <3.5 three times in a row, they will be requested to attend speaking training (i.e. Toastmasters)
  - d. Vic asked to make sure the website and minutes are up to date.
  - e. Vic pointed out that the committee must have 6 or more active voting members
  - f. If a TC wants to meet by telecom, ASHRAE can help.
  - g. Program suggestions should follow suggested tracks. Otherwise, they may get rejected.
2. Art Geisler, Research Liaison discussed the following
  - a. RAC is more strict about rejecting RTARs. When a new RTAR is reviewed, RAC first asks whether it is appropriate for ASHRAE to do in the first place? Then RAC asks if it should be funded? If the answer to either is NO, then the RTAR is automatically rejected.
  - b. There is no backlog of RTARs. RAC is looking for new submissions.
  - c. New RTARs should be discussed with other TCs before submission
  - d. Art is staying on for another year as Research Liaison

## **5 SSPC 41 REPORTS BY CHAIR**

1. In the absence of the SSPC Chair, the reports were made the TC 1.2 committee members

2. James Douglas reported on Standard 41.1 *Standard Method for Temperature Measurement*. The revised standard should go out for public review shortly.
3. Terry Beck reported on 41.2 *Standard Method for Laboratory Airflow Measurement*. Title, Purpose, and Scope have been updated. There are new tables for air velocity, separate section on air flow, and a section on uncertainty analysis. Draft is expected by Jan 2013, with content from old Handbook and new material.
4. Frank Spevak reported on 41.3 *Standard Method for Pressure Measurement*. There were 9 people present. They are close to completion, but there is still work to do. Available for letter ballot by Sept 2012. They will take out the typical HVAC applications section. There was concern that some people may be currently using that section. However, other standards have similar details already captured. Committee members were OK with this. Public review should be by end of 2012.
5. James Douglas reported on Standard 41.4 *Standard Method for Measurement of Proportion of Lubricant in Liquid Refrigerant*. Committee has finished at last meeting. Everyone voted and approved, but after review additional comments were received, and draft was withdrawn from Public Review. A review meeting was held Monday 10-noon to discuss comments. The goal is to complete changes within 2 weeks and send for review again, followed by Public Review.
6. No TC 1.2 members were present at 41.6, so no report was given.
7. James Douglas reported that 41.7 *Standard Methods for Gas Flow Measurements* has been combined with 41.8 *Standard Methods for Liquid Flow Measurement*. John Scott reported that work is progressing slowly. One contributor who was not at Chicago or San Antonio. The uncertainty analysis is not complete. Title, Purpose, and Scope need to be changed. Draft is scheduled for Public Review in January 2013, but that seems unlikely. Hope for June 2013
8. James Douglas reported that 41.10 *Standard Methods for Refrigerant Mass Flow Measurement Using Flowmeters*. Rick Hall was filling in. Work was finished yesterday and draft should go to Public Review next.
9. James Douglas reported that 41.11 *Standard Methods for Power Measurements*. Meeting was held Monday morning. There is still much to do on test methods. They hope to go to Public Review by next meeting.

## **6 TC/TG CHAIRMAN'S BREAKFAST MEETING**

1. Cost structure for speakers is being changed. Starting with the next meeting, speakers have to pay ~\$100 registration fee. Normal registration fees are being lowered.
2. Frank Spevak reported that a target 25% of all papers in Denver will be research based, both ASHRAE sponsored and otherwise. Technology papers no longer need a full abstract on submitting. Deadlines for Denver conference paper submissions is Jan 14, 2013 and for tech papers is September 24, 2012
3. Additional discussions with Art G and Vic F which are described in the LIASON section above

## **7 HANDBOOK**

1. Terry Beck reported
2. TC 1.2 is responsible for 2013 Fundamentals Chapter 36.
3. Final draft should be available soon. Vote should be by end of July 2012.
4. There are no major changes. All sections were revised. 3 sections did not get any review comments.
5. All changes are being tracked in a master Word document. Best practice on equations is to make a comment, rather than changing the equation.

6. All comments need to be submitted to Terry Beck by July 5, 2012.

## 8 RESEARCH

1. Frank Spevak reported
2. Currently, RAC has 19 new projects, 28 completed projects, and 6 conditionally approved TRPs ready to start in the Fall.
3. The Grant-in-Aid program had 65 applications.
4. Innovative Research Grant program had 5 submitted proposals, but all were declined because they were not deemed innovative.
5. RAC acted on RTARs: returned 4, approved 3, received 5.
6. There will be a change to the RTAR format after San Antonio.
7. RTARs cut off dates May 15, August 15, and December 15.
8. TC 7.7 *Testing and Balancing* had a Research meeting on June 25, 2012, where RP-1245 was discussed. 1 or 2 papers will be ready for Denver. Frank Spevak to give Terry Beck names for possible reviewers.
9. Discussions on possible research topics
  - a. Write up RTAR for duplicating work of RP-1245 under negative conditions as opposed to supply side conditions. It is unclear if there will be any affect. TC 7.7 is interested. Terry Beck proposed this could be a simulation first. Frank Spevak will submit this RTAR. Steve Idem expressed concern about this RTAR; not sure about the value proposition.
  - b. A while ago, there was a discussion about test methods for nozzles. There may be interest from SSPC 41. 41.1, 41.2, and/or 41.3 ran into issues with nozzle vanes placement. 41.2 expressed similar interest in their meeting. DOE needs this data right away, but because of the timeline, they may go directly to a test lab. Steve Idem will approach John Murphy to follow up this RTAR idea.
  - c. Pat Collins discussed an interest to investigate effect of low flow conditions when measuring wet bulb temperature. Requirement for wet bulb measurement is 750 ft/min. Many VAV applications targeted for low energy utilization have much lower flow.
  - d. Frank Spevak discussed capture hood supply/return measurements. Laurence Berkeley National Laboratory published a controversial report on the topic. It may be interesting to investigate the use of flow grids of this application. Frank Spevak will work on this RTAR also and try to seek co-sponsorship from TC 9.10
10. Frank Spevak motioned to approve the revised RTAR 1636 as it was voted and re-submitted in SPC 8.4. John Scott seconded the motion. The motion was approved in a 5-0-0-3 vote (chairman voting). Frank Spevak will resubmit to Art G. Frank Spevak or Steve Idem will follow up with James to use the new cover sheet. RTAR must be resubmitted by Aug 15, 2012.

## 9 PROGRAMS

1. Steve Idem called for new nominations for Program Chair and new ideas for programs
2. Terry Beck has some papers coming out.
3. One idea is for a seminar on low velocity measurements with Pitot tubes and the directional effects of airflow on flow measurements. However, Charlie Wright needs to do some basic measurements first. Terry Beck will follow up with Charlie. Steve Idem asked if the topic needs to be expanded. Terry said maybe.

4. Frank Spevak proposed a program idea on flow measurements where flow is reduced to save energy. TC 5.3 *Room Air Distribution* expressed interest. Paul Grinberg suggested this may be related to RP-1355. Frank will think more about this idea.

## 10 MEMBERSHIP

1. In Chicago, 3 committee members agreed to serve for an additional 2 year term on the TC.
2. There are still 8 voting members, which is over the minimum 6.
3. James Douglas needs to update his bio and Bias form.

## 11 WEBSITE

1. Frank Spevak reported that the website contents are about 6 months old.
2. It needs to be updated with the new logo.
3. Frank will complete updated in 2 months
4. Steve Idem asked if additional content can be posted on the website. Frank said the website is flexible and can be expanded to host other content if needed/desired.

## 12 NEW/UNFINISHED BUSINESS

1. Steve Idem reported receiving an email from Martha Hewitt from SPC 155P *MOT/Rating Commercial Space Heating Boiler Systems* regarding performance/efficiency measurements in boilers (presumably commercial). Steve will follow up

## 13 ADJOURN MEETING

1. Steve Idem moved that the meeting be adjourned. It was unanimous.

## 14 ATTENDEES

- Voting Members
  - Steve Idem
  - Frank Spevak
  - John Scott
  - Terry Beck
  - Jim Douglas
  - David Yuill
- Guests
  - Paul Grinberg