

TC 1.2 – Instruments and Measurements: Orlando 2020
 Meeting Minutes - Main Committee Meeting
 1:00 – 3:30 PM, February 4, 2020; Lake Concord B Hilton
These draft minutes must be approved by this committee to be the official record

Attendees

Name	Affiliation	Email Address	Status
Jim Douglas	Imagineering and More	jim.douglas.imagineering@gmail.com	Voting
Jim Butler	University of Nebraska	jbutler406@hotmail.com	
David A Smith	.FPL	david.a.smith@fpl.com	
Terry Beck (Phone)	Kansas State Univ.	tbeck@ksu.edu	Voting
John Scott	Natural Resources Canada.	john.scott@canada.ca	
John Neel	Johnson Controls/Frick	john.l.neel@jci.com	Voting
Dr. David Yuill	University of Nebraska	dyuill@unl.edu	
Victor Cincola	AccuTrol LLC	vcincola@mchsi.com	Voting
Eric Anderson	Anderson Engineering	eanderson@aenpi.com	
Craig Bradshaw	Oklahoma State Univ.	craig.bradshaw@okstate.edu	Voting
Mark Kedzierski	NIST	MAK@NIST.gov	
Jim Schumacher	TSI Inc.	jschumacher@tsi.com	
Hongmei Liang	Carrier Corporation	hongmai.liang@carrier.com	Voting
Dr. Som Shrestha	Oak Ridge National Lab	shresthass@ornll.gov	
Robert A Moss	Dwyer Instruments	rmoss@dwyermail.com	Voting
Jeffrey Wilms	JCI	jeffrey.wilms@jci.com	
Alex Schmig	Trane	Alexander.Schmig@trane.com	
Brian McClintock	Daikin Applied	Brian.McClintock@daikinapplied.com	
Judd Jackson	Trane	judd.jackson@irco.com	
Darryl Denton	Trane	darryl.denton@irco.com	
Michelle Hull	Trane	michelle.hull@trane.com	
Brandon Kelley	AAON	BWKelley34@gmail.com	
Steve Rogers	Energy Conservatory	srogers@energyconservatory.com	
Chris Lesnar	Daikin Applied	Christopher.lesnar@daikinapplied.com	
Patrick E. Collins	Consultant	pcollins@testfac.com	

A. Administrative:

1. Call to order/introductions/establish quorum: Victor Cincola/ Jim Douglas

6 of 11 voting members (one non-quorum) were present. Quorum of 6 was established. One additional (Terry Beck) joined the meeting by phone late. 7 of 11 3 YEA members present.

Attendance:

Meeting Minutes for TC 1.2 – Instruments and Measurements, Orlando Florida Winter Meeting 2020

VM (Present): Jim Douglas, Hongmai Liang, Robert Moss, Craig Bradshaw, John Neel, Victor Cincola, and Terry Beck

VM (Absent): Huojun Yang, Lloyd Le, Connor Hayes, Frank Spevak

2. Review of the agenda and ASHRAE Code of Ethics

Victor read the ASHRAE Code of Ethics.
Victor reviewed the agenda.

3. Review and approval of minutes from the Atlanta winter

Motion to approve minutes by Craig Bradshaw and seconded by John Neel.
Motion carried: (5-0-0-5 CVN).

4. TC Chair's breakfast -Victor Cincola

Notes from TC Chair Section 1 Meeting
Sunday 2/2/20

Notes of significance to TC 1.2 Instruments and Measurements:

- TAC request for advice on the issue of reorganization of all TCs to reduce the total number from 120 to 30 by combining them into groups was considered but was not supported for the type of work this committee does.
- ASHRAE is promoting "change is important and good for business" with respect of combining committees and making forward thinking business changes for the organization

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5. Liaison reports

Section head: Jennifer Leach did attend the meeting prior to the start and related that she was the new ASHRAE Liaison for this TC section. She wanted to know if there were any membership issues or questions.

B. Standards - Jim Douglas

Jim postponed a report on SSPC 41 due to time constraints. A written report will be included as an Annex A to these minutes.

C. Handbook - Terry Beck

The committee's handbook section has been completed.
We will start the process of reviewing it again for the next update Chapter 37.
Terry submitted by email an existing spreadsheet to the TC1.2 committee to sign up or revise the member commitment for the next update work.

Forrest Meggers spoke about a section of the handbook that could use some updating based on work that he has been doing with radiation temperature measurement. Due 5/31/20

D. Research – Frank Spevak (Absent)

- 1) Frank was absent from the meeting and no report was submitted
- 2) Discussion about instrumentation in general as a possible research project.

E. Programs Subcommittee Chair’s report – Steve Idem (Absent)

No sponsorship of a program was agreed upon for the upcoming summer meeting was reported but a discussion was done for future possibilities.

F. Membership – Victor/ Jim Douglas gave the update.

Voting members rolling off as of 6/30/20:

Craig Bradshaw

John Neel

Huojun Yang

Voting members rolling on as of 7/1/20:

Steve Rogers

Craig Bradshaw

Som Shrestha

Brandon Kelley

New Vice Chairman will be needed. Patrick Collins had agreed to the position but is unable to take the position and Brandon Kelly has offered to take the position.

This will bring the voting membership to 12 including 1 non quorum, creating a quorum level of 6 technically after 7/1/20.

As of 7/1/20:

Victor Cincola: Chairman

Brandon Kelly: Vice Chairman

James Douglas: Secretary/ Standards

David Yuill: Research

Joseph Sanchez: Webmaster

Stem Idem: Programs

Voting membership for the summer meeting in Austin Texas:

Craig Bradshaw – non quorum
James Douglas
Victor Cincola
Terry Beck
Lloyd Le
Hongmei Liang
John Neel
Huojun Yang
Robert Moss
Frank Spevak
Conner Hayes

Quorum will be set at 6 (11 voting members and one non-quorum voting member)

Some attendees had interest in becoming members.

G. Website status report – Craig Bradshaw

Craig Bradshaw the new webmaster for the committee report that the website is up to date.

H. New/Unfinished business:

No new or old business was presented

I. Adjournment:

John Neel motioned to adjourn. Meeting concluded at 1:58 PM.

Annex A – Standards Subcommittee Report – Jim Douglas

NOTE: Due to the cancellation of the Austin Texas actual meeting and the creation of a virtual summer meeting, I have updated the Standards report to include the information known as of 7/1/20.

1. Subcommittee Chair's Reports:

Subcommittee 41.1, Standard Methods for Temperature Measurement – E. Anderson

Standard 41.1-2020 is being published. This standard will be up for periodic maintenance at the 2023 ASHRAE winter conference.

Subcommittee 41.2, Standard Methods for Air Velocity and Airflow Measurement – T. Beck

Standard 41.2-2018 will be up for periodic maintenance at the 2021 ASHRAE winter conference. We have recently learned that the revision committee for ASHRAE Standard 37 is not adopting 41.2-2018 by reference because 41.2-2018 includes an improved design for a multiple nozzle test chamber but does also permit users to test using their legacy multiple nozzle chambers. It makes sense to begin the revision of 41.2-2018 now rather than waiting 6 more months.

Motion: Do you, as an SSPC 41 voting member, approve to proceed with the revision of 41.2-2018 now instead at the ASHRAE winter conference in 2021?

Motion: Do you, as an SSPC 41 voting member, approve Pat Collins as the 41.2-2018R Subcommittee Chair?

The first 41.2-2018R virtual subcommittee meeting will be held on Wednesday, June 10, 2020 from 10:00 AM to 12:00 PM Eastern Time. Volunteers for this subcommittee should contact Pat Collins (pec2315us@gmail.com) to obtain the meeting specifics.

Note: This vote will be followed by a continuation letter ballot to give the SSPC 41 voting members who are not prepared to vote for this during the meeting and the absent voting members an opportunity to vote on this motion.

Subcommittee 41.3, Standard Methods for Pressure Measurement – R. Hall

The 41.3-2014R subcommittee reached consensus on the first 41.3-2014R PPR draft at Orlando. That draft included changes to the Title, Purpose, and Scope (TPS). Since then, the ASHRAE Standards Committee has approved the proposed 41.3-2014R TPS changes. The next step is for the SSPC 41

voting members to recommend that the ASHRAE Standards Committee approve the first 41.3 PPR draft.

Motion: *Do you, as an SSPC 41 voting member, recommend that the ASHRAE Standards Committee approve the first 41.3-2014R PPR draft for Publication Public Review?*

Note: This vote will be followed by a continuation letter ballot to give the SSPC 41 voting members who are not prepared to vote for this during the meeting and the absent voting members an opportunity to vote on this motion.

Subcommittee 41.4, Standard Methods for Measurement of Proportion for Lubricant in Liquid Refrigerant – J. Douglas

41.4-2015R revision subcommittee will not meet during the virtual Austin conference because the next step continues to be the testing of the newest sampling apparatus and that testing has been suspended until normal work returns after the present crisis. The present goal is to reach consensus on the first PPR draft at the 2021 summer conference.

Subcommittee 41.6, Standard Methods for Humidity Measurement – M. Shows

The 41.6-2014R revision subcommittee reached consensus on the first 41.6-2014R PPR draft during an interim meeting that was held on April 1, 2020, and this subcommittee will no longer meet during ASHRAE conferences.

The first 41.6-2014R PPR draft includes changes to the Title, Purpose, and Scope (TPS), so the ASHRAE Standards Committee needs to approve the proposed 41.6-2014R TPS changes before we can submit the first 41.6-2014R PPR draft.

Motion: *Do you, as an SSPC 41 voting member, recommend that the ASHRAE Standards Committee approve the proposed 41.6-2014R TPS changes?*

Note: This vote will be followed by a continuation letter ballot to give the SSPC 41 voting members who are not prepared to vote for this during the meeting and the absent voting members an opportunity to vote on this motion.

Subcommittee 41.7, Standard Methods for Gas Flow Measurement – J. Scott

The new 41.7-2018R subcommittee met to review the initial working draft on Thursday, June 11, 2020 at 10:00 AM to 12:00 PM. At the end of the meeting, the 41.7-2018 subcommittee reached a consensus that the first working draft should be the first Publication Public Review (PPR) draft.

Motion: *Do you, as an SSPC 41 voting member, recommend that the ASHRAE Standards Committee approve the first 41.7-2018R PPR draft for Publication Public Review?*

Note: This vote will be followed by a continuation letter ballot to give the SSPC 41 voting members who are not prepared to vote for this during the meeting and the absent voting members an opportunity to vote on this motion.

Subcommittee 41.8, Standard Methods for Liquid Flow Measurement – J. Scott

Standard 41.8-2016 (RA 2019) will be up for periodic maintenance at the 2022 ASHRAE winter conference.

Subcommittee 41.9, Standard Methods for Refrigerant Mass Flow Measurement Using Calorimeters – M. Perevozchikov

The new 41.9-2018R subcommittee held an interim meeting in May, and reached a consensus that the first working draft should be the first Publication Public Review (PPR) draft. The 41.9-2018R subcommittee will not meet during the Austin virtual conference.

Motion: *Do you, as an SSPC 41 voting member, recommend that the ASHRAE Standards Committee approve the first 41.9-2018R PPR draft for Publication Public Review?*

Note: This vote will be followed by a continuation letter ballot to give the SSPC 41 voting members who are not prepared to vote for this during the meeting and the absent voting members an opportunity to vote on this motion.

Subcommittee 41.10, Standard Methods for Refrigerant Mass Flow Measurement Using Flowmeters – J. Neel

Standard 41.10-2020 is being published. This standard will be up for periodic maintenance at the 2023 ASHRAE winter conference.

Subcommittee 41.11, Standard Methods for Power Measurement – M. Todd

In April, the SSPC 41 voting members approved the first 41.11-2014R PPR draft for public review. The dates for the first 41.11-2014R will be announced in ASHRAE's *Standards Actions* sometime during the next few months.

Subcommittee 41.13, *Standard Methods for Fuel Heat Value Measurement* –

J. Lutz

41.13P standard creation subcommittee held an interim meeting on April 29th and will not meet during the virtual Austin conference. Another 41.13 interim meeting will be scheduled in October.