

TC 1.2 – Instruments and Measurements: Virtual Austin 2020
Meeting Minutes - Main Committee Meeting

1:00 – 3:30 PM, July 7, 2020; On Line Zoom Virtual Meeting

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
Steve Idem	University of Nebraska	jbutler406@hotmail.com	
Terry Beck	Kansas State Univ.	tbeck@ksu.edu	Voting
John Scott	Natural Resources Canada.	john.scott@canada.ca	
Dr. David Yuill	University of Nebraska	dyuill@unl.edu	
Victor Cincola	AccuTrol LLC	vcincola@mchsi.com	Voting
Craig Bradshaw	Oklahoma State Univ.	craig.bradshaw@okstate.edu	Voting
Hongmei Liang	Carrier Corporation	hongmai.liang@carrier.com	Voting
Dr. Som Shrestha	Oak Ridge National Lab	shresthass@ornll.gov	Voting
Robert A Moss	Dwyer Instruments	rmoss@dwyermail.com	Voting
Jeffrey Wilms	JCI	jeffrey.wilms@jci.com	
Brian McClintock	Daikin Applied	Brian.McClintock@daikinapplied.com	
Shilei Ma	Dwyer Instruments	sma@dwyermail.com	
Mohamed Ibrahim		darryl.denton@irco.com	
Michelle Hull	Trane	michelle.hull@trane.com	
Brandon Kelley	AAON	BWKelley34@gmail.com	Voting
Craig Wray	Consulting Engineer	pharmeng@shaw.ca	
Kevin Gallen	Gallen Engineering LLC	kevin@gallenengineering.com	

A. Administrative:

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

7 of 11 voting members (one non-quorum) were present. Quorum of 6 was established.

3 YEA members present (number established only from attendance list)

Attendance:

VM (Present): Jim Douglas, Hongmai Liang, Robert Moss, Craig Bradshaw, Victor Cincola, Brandon Kelly, Som Shrestha, and Terry Beck

VM (Absent): Lloyd Le, Steven Rogers, Connor Hayes, and Frank Spevak

2. Review of the agenda and ASHRAE Code of Ethics

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

3. Review and approval of minutes from the Orlando winter

Motion to approve minutes by Craig Bradshaw and seconded by Brandon Kelly. Motion carried: (6-0-0-5 CVN).

4. TC Chair's breakfast -Victor Cincola

Notes from TC Chair Section 1 Meeting
May 27 and 28, 2020

Notes of significance to TC 1.2 Instruments and Measurements:

- ASHRAE will be offering online virtual Chairs training
- ASHRAE will be setting up subcommittee training
- ASHRAE will be announcing dates for Awards submissions

5. Liaison reports

Section head: Kevin Gallen did attend the meeting prior to the start and related that he was the new ASHRAE Handbook fund for this TC section.

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 39.
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.
Kevin Gallen spoke about the need for our chapter information which is due 7/14/20.

D. Research - David Yuill (new chair)

- 1) David said the Research meeting was scheduled for the following week due to virtual meeting backlogs, so no report was submitted.
- 2) Discussion about instrumentation in general as a possible research project.

E. Programs Subcommittee Chair's report – Steve Idem

No sponsorship of a program was agreed upon for the upcoming winter meeting in Chicago was reported but a discussion was done for future possibilities. Any submissions need to be filed with ASHRAE by 8/3/20.

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

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

Craig Bradshaw: Webmaster

Stem Idem: Programs

Voting membership for the winter meeting in Chicago, Illinois:

Craig Bradshaw – non quorum

James Douglas

Victor Cincola

Terry Beck

Lloyd Le

Hongmei Liang

Brandon Kelly

Steve Rogers

Robert Moss

Frank Spevak

Conner Hayes

Som Shrestha

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 reported that the website is up to date.

H. New/Unfinished business:

No new or old business was presented

I. Adjournment:

Robert Moss motioned to adjourn. Meeting concluded at 2:02 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.