



MINUTES

**Technology Council
Webinar
Monday, April 17, 2017**

MOTIONS
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Motion #	Description
1	Technology Council recommended to the Board that the Rules of the Board Section 2.425.002.1 Composition be revised to allow the addition of 2 Standards Committee members, increasing the Standards Committee membership from 26 to 28.
2	Technology Council approved the following 7 consent agenda items, having no unresolved commenters and no negative votes from the project committee for publication approval or Standards Committee.
3	Technology Council appointed Rajan Rajendran as chair of the <i>Refrigerants and their Responsible Use</i> Position Document Committee.
4	Technology Council appointed Erica Stewart as chair of the <i>Airborne Infectious Diseases</i> Position Document Committee.
5	Technology Council appointed Don Brundage as chair of the <i>Climate Change</i> Position Document Committee.
6	Technology Council approved tentative research project 1808-TRP (<i>Servicing and Installing Equipment using Flammable Refrigerants</i>), be awarded to the Creative Thermal Solutions (CTS) for a period of 6 months at a total cost to ASHRAE of \$115,000.
7	Technology Council approved tentative research project 1661-TRP (<i>Development and Validation of Dynamic Models for the Control of Chiller Plants with Water Side Economizer</i>), be awarded to University of Miami for a period of 15 months at a total cost to ASHRAE of \$116,560.

Minutes
Technology Council Webinar
Monday, April 17, 2017
2:00 PM (EDT)

Tech Council Present:

Voting

Pat Graef
Ginger Scoggins
Charlie Culp
Ken Fulk
John Harrod
Jaap J. Hogeling
Karim Amrane
Byron Jones
Mark Modera
William Walter

Non-Voting

Steve Emmerich
Arthur Giesler
Rita Harrold
Max Sherman
Wane Baker
Nicholas Shockley
Kishor Khankari

Tech Council Absent

Michael Bilderbeck
Kelley Cramm
Chris Mathis
Lan Chi Nguyen Weekes
Dan Int-Hout
Tom Lawrence
Doug Reindl

ASHRAE Staff Present

DD Latham
Lilas Pratt
Stephanie Reiniche
Steve Hammerling
Mike Vaughn
Ryan Shanley

1. CALL TO ORDER

Meeting was called to order by Chair, Pat Graef. Agenda was presented and Chair asked for any modifications, there being none the meeting proceeded. Vice Chair, Ginger Scoggins was asked to record any actions items presented.

Secretary's Note: Quorum was met with 8 voting members plus the Chair in attendance at the start of the meeting.

2. STANDING COMMITTEE REPORTS (Motions Only)

Standards Committee

It was moved by Charlie Culp and seconded by Byron Jones that:

M1 Technology Council recommends that the Board approve the Rules of the Board Section 2.425.002.1, Composition, be revised to allow the addition of 2 Standards Committee members, increasing the Standards Committee membership from 26 to 28.

Background: Standards Committee has 5 subcommittees, one of which, SPLS, has liaison responsibilities for the SPCs, SSPCs and Guideline committees (approximately 110 in round numbers). It is an annual challenge to balance the workload among 15 SPLS members. The number of active PCs has increased over the years and this, along with the creation of SSPCs with standards under continuous maintenance, has added to the workload. An additional 2 members would help in sharing the work and

provide the opportunity for more attention from the liaison and the assigned committees, especially those with responsibility for the high-profile standards. Standards Committee voted to approve recommending the ROB change via letter ballot dated March 8, 2017 and closing March 22, 2017.

Financial impact: Potentially \$2000 per year (500 per person per meeting) if these new members request transportation reimbursement.

TechC Vote: 8-0-0, CNV

Secretary's Note: John Harrod joined the meeting making for nine voting members present.

It was moved by Byron Jones and seconded by Bill Walter that:

M2 Technology Council approve the following 7 consent agenda items (motions 2-8), having no unresolved commenters and no negative votes from the project committee, for publication approval:

1. Standards Committee recommends that BSR/ASHRAE/ICC/USGBC/IES Addendum *v* (*revises section 5.3.1.1 with updates to allowable sites*) to ANSI/ASHRAE/USGBC/IES 189.1-2014, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*, be approved for publication.
2. Standards Committee recommends that BSR/ASHRAE/ICC/USGBC/IES Addendum *w* (*updates performance option A of section 7.5.2 for consistency*) to ANSI/ASHRAE/USGBC/IES 189.1-2014, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*, be approved for publication.
3. Standards Committee recommends that BSR/ASHRAE/ICC/USGBC/IES Addendum *ah* (*revises lighting power density requirements for exterior parking areas*) to ANSI/ASHRAE/USGBC/IES 189.1-2014, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*, be approved for publication.
4. Standards Committee recommends that BSR/ASHRAE/ICC/USGBC/IES Addendum *aj* (*revises bi-level motion control requirements to align with 90.1-2016*) to ANSI/ASHRAE/USGBC/IES 189.1-2014, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*, be approved for publication.
5. Standards Committee recommends that BSR/ASHRAE/ICC/USGBC/IES Addendum *ap* (*updates normative references in Section 11 and the informative references in Appendix G*) to ANSI/ASHRAE/USGBC/IES 189.1-2014, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*, be approved for publication.
6. Standards Committee recommends that BSR/ASHRAE/ICC/USGBC/IES Addendum *ax* (*modifies existing requirements for water features*) to ANSI/ASHRAE/USGBC/IES 189.1-2014, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*, be approved for publication.
7. Standards Committee recommends that BSR/ASHRAE/ICC/USGBC/IES Addendum *ba* (*updates references to Standard 62.1 and Standard 170 in section 8.3.1*) to ANSI/ASHRAE/USGBC/IES 189.1-2014, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*, be approved for publication.

Tech Vote: 9-0-0, CNV

Refrigeration Committee (REF)

It was moved by Charlie Culp and seconded by John Harrod that:

M3 Technology Council appoint Rajan Rajendran as chair of the *Refrigerants and their Responsible Use* Position Document (PD) Committee.

BACKGROUND: A motion to start a revision to the *Refrigerants and their Responsible Use* PD was approved by BOD ExCom in Las Vegas. The purpose of the revision would be to update the PD to reflect advancements since the initial publication and specifically changes from the Kigali Amendment to the Montreal Protocol. UNEP has expressed that updated guidance from ASHRAE is sought as soon as possible. The aim is to have a revised PD for the Annual Meeting in June.

TechC Vote: 9-0-0, CNV

It was agreed that the following motion be sent to the council via letter ballot to allow the council time to review the bios of each proposed committee member. The letter ballot was approved for a one week response period.

The appointment of the following members to the *Refrigerants and their Responsible Use* PD Committee:

- Glenn Hourahan (ACCA, REF consultant)
- Barbara Minor (Chemours, REF member)
- Shamila Nair Bedouille (UNEP, REF Member)
- Martin Dieryckx (Daikin, REF member)
- Piotr Domanski (NIST)
- Allen Karpman (Arkema)

BACKGROUND: The proposed roster was compiled with input from chair and REF. The proposed roster meets the Tech Council PD committee balance requirements.

Environmental Health Committee (EHC)

It was moved by Byron Jones and seconded by Ginger Scoggins that:

M4 Technology Council appoint Erica Stewart as chair of the *Airborne Infectious Diseases* Position Document (PD) Committee.

BACKGROUND: A motion to start a revision to the *Airborne Infectious Diseases* PD was approved by BOD ExCom in Las Vegas. Ms. Stewart is a member of ASHRAE TC 9.6 (Health Care Facilities) and incoming member of EHC.

TechC Vote: 9-0-0, CNV

It was agreed that the following motion be sent to the council via letter ballot to allow the council time to review the bios of each proposed committee member. The letter ballot was approved for a one week response period.

The appointment of the following members to the *Airborne Infectious Diseases* PD Committee:

- Yuguo Li (Univ. of Hong Kong, member of last PD committee)
- Ken Mead (CDC, TC 9.6)

- Russ Olmsted (Trinity Health, member of last PD committee)
- Jovan Pantelic (Univ. of Cal-Berkeley)
- Larry Schoen (Schoen Engineering, member of last PD committee)
- Chandra Sekhar (National University of Singapore, EHC, member of last PD committee)
- Zuraimi Sultan (National University of Singapore)

BACKGROUND: The proposed roster was compiled with input from chair and members of EHC. The proposed roster meets the Tech Council PD committee balance requirements.

Technical Committee (TC) 2.5 (Global Climate Change)

It was moved by Ginger Scoggins and seconded by Charlie Culp that:

M5 Technology Council appoint Don Brundage as chair of the *Climate Change* Position Document (PD) Committee.

BACKGROUND: BOD ExCom approved a revision to the Climate Change position document after the ASHRAE Winter Meeting. The current PD expired February 26, 2016. Mr. Brundage is a member of TC 2.5, SSPC 90.1 and incoming Vice Chair of the Standards Committee

TechC Vote: 9-0-0, CNV

It was agreed that the following motion be sent to the council via letter ballot to allow the council time to review the bios of each proposed committee member. The letter ballot was approved for a one week response period.

The appointment of the following members to the *Climate Change* PD Committee:

- Michael Deru, NREL
- Enrica Galasso, Carrier
- Elizabeth Tomlinson, TKDA
- Mihir Nandkeolyar, JCI
- Jerry Lemens, Jacobs
- Philip Yu, Trane Asia

BACKGROUND: The proposed roster was compiled with input from chair and members of TC 2.5. The proposed roster meets the Tech Council PD committee balance requirements.

Research Administration Committee (RAC) – EXECUTIVE SESSION

Secretary's Note: Council member, Byron Jones, was excused from the meeting due to a potential conflict of interest. The number of voting members present is now eight.

It was moved and seconded that:

M6 Technology Council approve tentative research project **1808-TRP** (*Servicing and Installing Equipment using Flammable Refrigerants*), be awarded to the Creative Thermal Solutions (CTS) for a period of 6 months at a total cost to ASHRAE of \$115,000.

TechC Vote: Motion Passed

It was moved and seconded that:

M7 Technology Council approve tentative research project **1661-TRP** (*Development and Validation of Dynamic Models for the Control of Chiller Plants with Water Side Economizer*), be awarded to University of Miami for a period of 15 months at a total cost to ASHRAE of \$116,560.

TechC Vote: MOTION Passed

3. ADDITIONAL BUSINESS

Chair Graef discussed the timing and deadlines involved when nominating members for standing committees. The deadline for nominations for 2018/19 will be in October of 2017. This was noted as many nominations were not received by the deadline during the previous cycle. She asked that when nominating please be mindful of the deadlines.

4. ADJOURN

There being no further business to come before the council, the meeting was adjourned at 2:35 PM.