TC 7.9 Meeting Minutes Sunday, January 29th, 2017 Las Vegas, NV

ASHRAE 1791 Tullie Circle, N.E./Atlanta, GA 30329 404-636-8400 TC/TG/TRG MINUTES COVER SHEET

(Minutes of	all IC/IG/IRG Me	etings are to be	e distributed to a	all persons list	ed below within 60 days followin	g the meeting.)
TC/TG/TRG NO:		TC 7.9				
TC/TG/TRG/TITLE:		Building Commissioning				
DATE OF MEETING:		January 29 th , 2017				
LOCATION: Las Vegas, N		V				
MEMBERS						
PRESENT	MEMBEF	RNAME	TERM	PRESENT	MEMBER NAME	TERM
\square	Sarah Maston – 0	Chair	2014 – 2018	\boxtimes	John Gibbemeyer - Handbook	2014 – 2018
\square	Justin Seter – Vic	e Chair (YEA)	2014 – 2017		Gerald Kettler	2015 – 2019
\boxtimes	Will Mak – Secret	ary (YEA)	2016 – 2020		John Castelvecchi	2014 – 2018
\square	Justin Garner (YE	EA)	2013 – 2017		Lixia Wu	2014 – 2018
\square	Michael Amstadt		2013 – 2017		Don Blacklock - Membership	2015 – 2019
\boxtimes	Lee Riback - Prog	grams	2013 – 2017	\boxtimes	Stephen Wiggins	2013 – 2017
NON-VOTING	MEMBER SUB	COMMITTEE (CHAIRS			
PRESENT				NAME		
\boxtimes	David Shipley – Research / Webmaster					
	Thursten Simonsen – Journal & Insights					
\boxtimes	Walter Grondzik – Honors & Awards / Standards					
EX-OFFICIO	MEMBERS AND	ADDITIONAL	ATTENDANCE			

NAME	GRADE	MEMBER NAME	GRADE
Dr. Joy Altwies	CM	Thomas Cappellin	СМ
Adam Doubblestein	СМ	Marija Todorovic	Section Head
Alonzo Blalock	СМ	David Edenburn	СМ
Bishara Mogannam	PCM	Bradley Brooks	СМ
David Cantrill, Jr (YEA)	СМ	Gary Andis	СМ
David Lewis	СМ	Harry Enck	СМ
David Allen	СМ	James Mascaro	СМ
Lee Huffines (YEA)	PCM	Jeffrey Conner	CM
Norman Nelson	PCM	Lawrence Ollice, Jr.	PCM
Richard Casault	СМ	Leonilton Cleto	CM
Rogeh Alnajjar	СМ	Ole Teisen	CM
Timothy Patterson	PCM	Tracey Jumper (YEA)	PCM
Timothy Corbett	СМ		
Kimberly Pierson (YEA)	СМ		

CM = Corresponding Member, PCM = Provisional Corresponding Member

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GUESTS

NAME	NAME
James Bochat	Connor Barbaron (ASHRAE)
Bruce Pitts	Xiufeng Pang
Liz Fischer	David Cohen
Steve Ferguson (ASHRAE)	Tran Huynh

DISTRIBUTION

All Members of TC/TG/TRG plus the following:		
TAC Section Head:	Marija Todorovic	
TAC Chair:	Michael R. Bilderbeck	
All Committee Liaisons As Shown On TC/TG/TRG Rosters:		
Manager of Standards	Stephanie C. Reiniche	
Manager of Research & Technical Services	Michael R. Vaughn	

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1. Call To Order / Scope / Introduction

Sarah Maston (Chair) called the meeting to order at 3:00 PM. All who were present provided self-introductions, including their name and affiliation.

Mike Amstadt moved to approve the agenda for the St. Louis Meeting, Justin Garner seconded.

2. Voting Member Roll Call

There were 8 voting members present out of a total of 13 voting members. A quorum of voting members was present for the meeting.

3. Approval of St Louis Minutes

The draft minutes from St. Louis were reviewed and a correction was noted. Motion was made and seconded to approve minutes as amended.

Justin Garner moved to approve, Justin Seter seconded.

Motion passed: 8 - 0 - 0 (Yea – Nay – Abstain)

4. ASHRAE Administrative Matters / Issues from TC Chairs Breakfast

TC Chair's Breakfast Notes:

New MTG since STL Louis meeting on Air Changes rates

TC website template is much easier to use, ASHRAE society has taken over managing membership lists – Dave Shipley

Joining TC 7.9 is very easy, go to website: http://tc0709.ashraetcs.org/membership.php

Monday 6:30 – 8:00 AM Subcommittee Chair Training Website Tuesday 11:00 – Noon Subcommittee Chair Training Programs

5. Correspondence / Announcements

A discussion was mentioned regarding developing a program for operating and managing an OPR workshop. This will be followed up on in the appropriate sub-committee meetings.

6. Society Liaisons

Sarah Maston - CEC Update - ASHRAE Programs

Las Vegas Conference

- 164 abstracts, 145 approved, 102 papers received
- 81 conference papers presented in 22 different sessions
- 42 conference papers presented in poster sessions
- 76 presented seminars,
- · Recognized 6 different student papers

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STL potential source bias disclourse, came out of TAC to document potential sources of bias. Moving forward on speaking, all speakers will need to complete form

Long Beach

- There will be a commissioning track in Long Beach (June 2017) Commissioning:
 Optimizing New and Existing Buildings and their Operation
- Submissions due February 6, 2017

Tracks and key dates for upcoming conferences on are on the websites and www.ashrae.org/longbeach and www.ashrae.org/chicago

Society Handbook Update

Our TC is partaking in a pilot program to make incremental updates throughout the year instead of the typical cycle

Society Standards Update

- Represent ASHRAE on other code related organizations i.e. IECC, etc.
- Society resource for standards and codes
- Represent ASHRAE at code hearings on our stance on certain issues
- If there are issues with model codes that TCs are aware of, please let them know so they can bring up those issues

7. Sub-Committee Reports

- MembershipDon Blacklock
 - No report
- ProgramLee Riback
 - Great meeting combined with the Handbook and Research Subcommittee on Saturday. Requesting 3 hours for next meeting so subcommittee has enough time for discussion.
 - Long Beach meeting update: 22 submissions for the commissioning track to date. 16 have been accepted, 6 have been approved. 10 conference papers, 1 paper has been accepted.
 - Great ideas for programs were discussed i.e. OPR workshop, VAV sampling discussion, Cx specifications dos and don'ts, electrical commissioning, commissioning for design build forum, existing building optimization, residential commissioning, optimization in new building commissioning.
 - Potential idea to do forum before TC 7.9 meeting
 - All submissions are due February 6, 2017.
- Research......David Shipley
 - A couple ideas have been on the tracking log but not RTAR ready
 - Improved tools on measuring the performance of a control loop project report complete. The project is nearly complete and is on track for successful publication soon. Project Number 1587 report is available.
- Handbook (Applications Chapter 43).....John Gibbemeyer

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- ASHRAE is looking to do handbook update out of sequence for handbook online through new online authoring portal for handbook documents. Does not require a full chapter update. Looking at certain handbook chapter sections that will be easy to update.
- If you help with contributing on the handbook edits online, you will get access to Handbook online for free for a certain time period
- If you get CD, you get handbook online for free. If you get the physical handbook, handbook online is an additional cost.
- Monthly meetings on second Monday of each month via phone and webcast to keep up momentum on all sub-committee activity.
- Standards......Walter Grondzik
 - TC 7.9 remains very active in the standards arena.
 - SSPC202 will oversee active continuous maintenance on various documents i.e.
 Standard 202, Guideline 0, Guideline 1, etc.
 - CIBSE, ICARE, OLAR with ASHRAE is working on standardization of definitions across different organizations
- Web SiteDavid Shipley
 - Website: http://tc0709.ashraetcs.org/
 - Forward all content that should be on website to Website Subcommittee Chair i.e. Meeting Minutes, Programs
- Journal and Insights/International......Thursten Simonsen
 - No report
- Honors & AwardsWalter Grondzik
 - o Submitted Outstanding Achievement award for someone on the committee.
 - The Outstanding Achievement Award is for active volunteers, don't be shy about nominating yourself for recognition, talk to Walter.
 - The Hightower Award has a bit tougher requirements but there are likely several who may qualify, please see Walter.

8. Cognizant Committee Liaison Reports

- SSPC 202 The Commissioning ProcessGerry Kettler (next several sections)
 - Standard Under Continuous Maintenance
 - Active sub-committees for Standard 202, Guideline 0, 1.1 and 1.5. All these guidelines are under continuous maintenance.
 - STD 202 adopted by 189.1. Working on 62.1 and 90.1. An informative annex in commissioning has been proposed for 90.1.
 - Liaisons have been appointed to Standards 189.1, 90.1 and 62.1. Liaisons exist with AIA, ICC, NFPA and NIBS
 - Industry publication summary has been developed and distributed to 202 committee members.
 - o Meeting on Monday, 1/30 from 8 to Noon Agenda includes:
 - Commissioning Titles and Definitions public review completed with three comments. Subcommittee 202 is developing responses
 - Commissioning process application special publication.

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- Commissioning section being developed for 189.1
- International commissioning documentation report
- Commissioning documentation in Cal Green
- USDOE/NIBS CWCC Program and Certifications Commissioning Provider (one of 5 titles)
 - DOE completed program development in 2015. It licenses organizations that meet the ISO 17024 and DOE requirements to certify individuals. BCA has been ANSI certified and licensed by DOE. NEBB is in process of seeking DOE Cx certification. AEE and ASHRAE now licensed for non-commissioning certifications.
 - DOE program has certification and certificate programs.
- National Institute of Building Science (NIBS)
 - o Commissioning Council met January 11, 2017 in Washington
 - WBDG commissioning sections have been updated
- American Institute of Architects (AIA)
 - o Developing an AIA commissioning services contract boiler plate
 - o Have hired a staff member to coordinate the commissioning process.
- International Code Council (ICC)
 - 2015 versions of IECC and IGCC require commissioning. The 2018 code issues appear to be following the same requirements.
 - Published Guideline G-4 Guideline for Commissioning
 - Standard 1000 Standard for Commissioning Process is on hold at this time. It has been through the first public review.
- ASHRAE Standard 189.1 Standard for the Design of High Performance Green Buildings
 - o ICC IGCC being folded into 189.1 for 2018 except for administration chapter.
 - Cx requirements are being addressed in 189.1 WG 10 to follow Standard 202 process requirements and coordinate with other codes..
- CAL Green Title 24
 - o Includes Commissioning requirements
 - Has developed checklists for new construction.
- ALI Commissioning Courses......Walter Grondzik
 - There are 4 commissioning courses. Including two all-day commissioning courses (one on building envelope) and two half day courses on Guideline 0 and Standard 202. They are popular courses and are also being offered internationally (Denmark and Italy).
- SGPC 0 "The Commissioning Process" &
 - SGPC 1 "HVAC&R System Commissioning"......Micheal Amstadt
 - These subcommittees fall under SSPC202 for continuing maintenance
- GPC 0.2 "Commissioning of Existing Buildings"......
 - Published for use
- GPC 1.2 "Commissioning of Existing HVAC&R Systems" Rick
 - Working on final draft for public review in March 2017
 - Annex work is ongoing
- GPC 1.3 "O&M Training for HVAC&R Commissioning" Walter Grondzik
 - Working on full document for public review in February 2017

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9. Other Committee Liaison Reports

 SSPC-62 "Ventilation for Acceptable IAQ".....Jean Pelletier No report SPC-90.1 "Energy Efficient Design of New Buildings" H. Jay Enck Working incorporating commissioning details in user's manual in the next 30 days Working on incorporating more commissioning activities in the 90.1 – 2019 SPC-111 "Testing and Balancing for New Buildings" **Justin Garner** Standard 111 meeting on Monday morning, working on voting for public review. Moving sections from handbook chapter to standard and vice versa. GPC-11 Control Components TestingJustin Garner Meet on Saturday morning and working on document for public review TC 7.1 "Integrated Building Design"......David Allen Working on major update for 2019 handbook chapter to include commissioning TC 7.3 "Operation and Maintenance Management"......Thurston Simonsen Meeting Tuesday afternoon, making handbook updates and possibly research projects in the future Seminar on technical writing today TC 7.7 Testing and Balancing......Justin Garner Meeting is tomorrow afternoon Call for help on publications TC 7.8 "Owning and Operating Costs"......Paul Leman No report TC 9.6 "Healthcare"Roger Lautz No report AEDG "Advanced Energy Design Guidelines".......Jay Enck The 75% guide still not funded. Steering committee meeting tomorrow to discuss

10. Other Association Reports

No report

next steps.

BCA.....Bruce Pitts

MTG BIMWalter Grondzik

- NCBC moved from May to October. In Salt Lake City October 16 to 18, 2017.
- BCxA certification was approved by ANSI and is now recognized by the Better Buildings approved.

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- Starting BCA University and have certificate program publishing through online course
- Publish revisions to New Construction best practices document, working on existing building best practices (looking to publish in 2017)
- NEBB:Stephen Wiggins
 - Working on ANSI standard, going for public review soon
- ACGRay Bert
 - Onsite assessment from ANSI, working through final punchlist. Should be ANSI accredited and DOE approved by mid-March 2017
 - o 2017 CxENERGY is in mid-April 2017 Orlando
 - 2 day commissioning seminar debuting at upcoming CxENERGY conference
- AABCRay Bert
 - 6 hour seminar, 4 90 minute seminars TAB for commissioning, geared for CxA, engineers at CxENERGY
 - AABC TAB standard was released last spring for use
 - o Working training activities for members for later 2017
- USGBCH. Jay Enck
 - LEED Version 4 is live
 - USGBC has increased registration and certification fees
- ASTM......H. Jay Enck
 - Published a guide to support the building enclosure commissioning standard (Standard 2813). Working on what types of tests need to be conducted for building enclosure commissioning. Should be published shortly
- CCC (California Commissioning Collaborative)......Reinhard Seidl
 - No report.
- Living Building Challenge......David Cantrill
 - No report.

11. Old Business

Nothing to discuss

12. New Business

- About a year ago, with J.R. Anderson passing, members within the TC wanted to recognize his work and dedication to ASHRAE. Working with ASHRAE Foundation to set up endowment in his memory, need to raise \$30,000 to begin endowment. Walter will reach out to Memphis Chapter (his old chapter) and other TCs for support.
- New ASHRAE commissioning test for BCxP. For anyone that is a CPMP, when you retake the exam, you will be designated a BCxP after you pass. For more information:
 https://www.ashrae.org/education--certification/certification/bcxp-certification-faqs
 and https://www.ashrae.org/education--certification/certification/bcxp-building-commissioning-professional-certification
- There was a rollout between NIBS and ASHE on BIM updating guide for Owners at the January NIBS Conference

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13. Next Meeting

• Sunday, June 25th @ 3:00 PM CST in Long Beach

14. Adjournment

• Meeting adjourned at 4:27 P.M. PST

15. Action Items

· No Items.

16. Motions

· Motion for meeting minutes for St. Louis approval as amended - PASSED

END OF MINUTES

Attachments

Notes from TC Chair's breakfast meeting

AGENDA SECTION TC/TG/TRG CHAIR'S BREAKFAST MEETING

2017 Winter Meeting Las Vegas, NV

Sunday, January 29th 6:30 A.M. – 8:00 A.M. EST

Caesar's Palace – ALL Section meetings located on Pool level

Section 1, Forum 11 RoomSection 2, Abruzzi RoomSection 3 Forum 3 RoomSection 4, Forum 13 RoomSection 5, Forum 20 RoomSection 6, Tribune RoomSection 7, Forum 12 RoomSection 8, Forum 5 RoomSection 9, Forum 4 RoomSection 10, Forum 6 Room

<u>Note</u>: The agenda and times estimated are for guidance only and should be modified to be sure the most important information is discussed and that there is adequate time to discuss things important to the committee chairs. Note that the time estimates shown allow for other important business to be conducted within the time frame allotted.

- a.1. Introduction of TC/TG/TRG/MTG Chairs, Vice Chairs, and guests (5 minutes).
- a.2. Review and approval of agenda (2 minutes). (note that you might want to solicit additions and corrections at the time the draft agenda is sent to the TC Chairs it is almost impossible to do anything in only 2 minutes)
- a.3. Review and approval of minutes (3 minutes).
- a.4. Summarize discussion from last meeting and status of actions assigned (5 minutes).
- a.5. Liaisons from other committees should each be given a chance to speak and distribute information pertinent to the section from their committee. An effort should be made to accommodate their schedules without major disruption of the Section meeting (15 Minutes).
 - a.5.1. Research Administration
 - a.5.2. Conference and Exposition Committee (CEC)
 - a.5.3. Handbook
 - a.5.4. Other Standing Committees
- a.6. Discuss the MBOs set for the year and how the section can work together to address them (10 minutes).
- a.7. Review summary report for the Section prepared from the TC/TG activity database and TAC (15 minutes).
 - a.7.1. Section activities and trends will be discussed relating to membership, research, programs, publications and new communication tools and services.
- a.8. Identify shared opportunities and challenges for section (10 minutes).
- a.9. Announcements and Reminders for TC/TG/TRG & MTG Chairs (Handout)
- a.10. Adjourn.

Note: This agenda will be discussed and finalized during the full TAC meeting in Las Vegas. This draft of the agenda is only intended to promote thinking prior to and discussion during that meeting.

Announcements and Reminders for TC/TG/TRG & MTG Chairs LAS VEGAS 2017

A. <u>NEW!</u>

1. 2016-2017 Hightower Award Recipient – Paul Lindahl, TC 3.6 & TC 8.6 Mr. Paul Lindahl's contributions to ASHRAE TC 3.6 and TC 8.6 in the past four years include being a handbook contributor to multiple chapters, a special liaison assignment

to SSPC 90.1, and tours in various leadership positions on both TCs.

Mr. Lindahl's contributions to ASHRAE technical committees, and especially to TC 3.6 and TC 8.6 in the last four years, have been exemplary and make him a well deserving recipient of the George B. Hightower Technical Achievement Award.

2. 2016-2017 Service to ASHRAE Research Award Recipient - Joseph Huber, TC 1.3

Mr. Joseph Huber's contributions to ASHRAE TC 1.3 (Heat Transfer and Fluid Flow) in the past four years included being a contributor to multiple RTARs and work statements. Research Subcommittee chair for the TC, and Proposal Evaluation Subcommittee (PES) member, and Project Monitoring Subcommittee (PMS) member for multiple projects.

Mr. Huber's contributions to ASHRAE technical committees, and especially to TC 1.3 in the last four years, have been exemplary and make him a well deserving recipient of the Service to ASHRAE Research Award.

3. ASHRAE members for SY 16-17 now have free online access to ASHRAE's Science and Technology for the Built Environment (STBE) through their existing ASHRAE.org account

STBE is ASHRAE's archival research publication offering comprehensive reporting of original research in science and technology related to the stationary and mobile built environment, including indoor environmental quality, thermodynamic and energy system dynamics, materials properties, refrigerants, renewable and traditional energy systems and related processes and concepts, integrated built environmental system design approaches and tools, simulation approaches and algorithms, building enclosure assemblies, and systems for minimizing and regulating space heating and cooling modes. The journal also features review articles that critically assess existing literature and point out future research directions.

You can access your free online subscription to STBE through the ASHRAE website under the blue bar drop-down menu – *Resources & Publications*. ASHRAE will reassess the free access option on an annual basis and may discontinue access if interest is low.

4. New ASHRAE Technology Portal is Now Available

The new ASHRAE Technology Portal provides easier free member access to ASHRAE Journal articles and ASHRAE Research Reports through a new robust search feature. We will still sell the reports and articles in the bookstore for nonmember purchase. URL http://technologyportal.ashrae.org.

5. Peer Review of Advanced Energy Design Guide for K-12 School Buildings: Achieving Zero Energy

In partnership with AIA, IES, and USGBC and with support from the DOE, ASHRAE has embarked on a new series of Advanced Energy Design Guides focusing on achieving zero energy performance. The first guide in the series is for K-12 School Buildings. The project committee is finalizing the first draft in anticipation of the first peer review. The 65% Complete Technical Refinement Draft for the Advanced Energy Design Guide for K-12 School: Achieving Zero Energy will be available for review and feedback from February 6, 2017 to February 17, 2017. All review input must be received by February 19, 2017. Once received, the input will be compiled and then reviewed by the committee who will make changes to the draft based on that input. To participate in the review, please go to www.ashrae.org/freeaedg to download the review process instructions and review input form as well as a copy of the document for review (in pdf format). The draft will be available for download starting on February 6, 2017 through Friday, February 17, 2017.

6. One New Multidisciplinary Task Groups (MTGs) have been formed since St. Louis meeting

MTG.ACR - Air Change Rate

Scope: MTG.ACR will coordinate TC/TG/TRG/SSPC technical activities to help evaluate the technical basis and adoption of airflow rate specifications in terms of Air Change Rate (ACR) or Air Changes per Hour (ACH) for spaces such as cleanrooms, laboratories, patient rooms, operating rooms, and other similar spaces. Responsibilities include the development of research projects, development and presentation of technical programs for all types of spaces which currently require ACR specifications, and a special publication detailing aspects of the ACR philosophy and practice. The work of this MTG will potentially impact design guidelines, ASHRAE Handbook, and related ASHRAE standards. This MTG intends to involve other national and international groups and organizations in these efforts

The following committees and outside groups are currently represented on this MTG: TC 2.2, 4.3, 5.3, 5.8, 9.2, 9.6, 9.10, 9.11, SSPC 62.1, SSPC 170, I2SL, NIOSH, AIHA and potentially more that wish to also join.

The chair of this MTG is Kishor Khankari.

For more information on this new MTG and the nine other existing MTGs, please go to the MTG section on the following web page: http://www.ashrae.org/tcs.

If your TC would like to have a voting representative on a particular MTG, please contact the ASHRAE Manager of Research and Technical Services, Mike Vaughn, at MORTS@ashrae.net.

7. Updated TC Website Template – Initial Feedback, if any?

Since the Atlanta meeting, the Society's Electronic Communication Committee (ECC), ECC staff, TAC volunteers Gage and Cooper, and a consultant have been working to modernize and streamline the template for TC websites and now most of the TC websites have been moved to this new template. The new template so far includes

WIZYWIG editing, automatic rosters, and simplified document uploading. There is no longer a need for HTML editing. If you have any feedback on the new template or suggestions for additional features, please let your Section Head and MORTS know.

8. New Restructured TC MOP (Manual of Procedures) to be issued after Las Vegas Meeting

TAC has restructured the TC MOP so that it is easier to navigate and find information.

9. How to Import Your TC Roster Information into MS-Outlook

Detailed instructions on how to import your TC roster information into MS-Outlook has been created and an e-mail announcement will be issued to all TC chairs, vice chairs, and secretaries once these instructions and the restructured TC MOP are posted to the TC page of the website (www.ashrae.org/TCs)

B. AT THIS MEETING

1. On-Site Training Options

i. TC/TG/TRG Chair's Training Workshop Reminder

<u>Sunday January 29th, 9:45-10:45 AM</u> in Roman I Room (Promenade Level) in the Caesars Palace Hotel. Roster Update training will be the primary topic of discussion, but other information for TCs will also be announced at this meeting. TAC is also interested in any feedback you have to offer on current TC programs and procedures.

ii. RAC's Research Subcommittee Chair's Breakfast

Monday, January 30th, 6:30 AM – 8:00 AM in Roman III Room (Emperors Level) in the Caesars Palace Hotel. Please encourage your Research Subcommittee Chair or another representative from the TC to attend this meeting so that your RAC Research Liaison (RL) can get an update on the TC's research activities and so that your RL can help resolve issues & questions that TC may have concerning their research program. The training portion of this meeting will focus on the duties and responsibilities of Project Monitoring Subcommittee members.

iii. TC Program Subcommittee Chair Training in Las Vegas

<u>Tuesday, 1/31, 11:15 AM – Noon</u>, in Forum 23 Room (Pool Level) in the Caesars Palace Hotel. *Don't complain about the meeting program and your TC's submissions if you have not been to training.*

A few things you might learn in training are as follows:

- Incomplete program submissions is the biggest reason for rejection now. All information is needed up front for CEC selection process.
- A packaged session on a similar topic is the best way to greatly improve your chances for acceptance.
- There is no difference in how CEC handles 60 and 90 minute program slots. 60 minute slots are just as good as 90 minute slots if complete

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iv. Handbook Training for TCs

ASHRAE Authoring Portal

Sunday, 1/29, 8 AM to 9 AM, in Turin Room (Promenade Level) in the Caesars Palace Hotel.

This session will introduce the new <u>ASHRAE Authoring Portal</u> for collaborative work on Handbook chapters or other publications. The session will also show new TC Handbook chairs (and TC chairs) what they need to know about Handbook chapter development and revision—the process, the product, and how to succeed. Includes time for Q&A and discussion.

Volume/TC Meetings

Sunday, 1/29, 9 AM to 10 AM

2018 Refrigeration, Room: Forum 19 (Pool level) **2019 HVAC Applications**, Room: Forum 3 (Pool level)

2020 HVAC Systems and Equipment, Room: Forum 18 (Pool level)

The agenda for these Handbook-volume-specific meetings will include topics of interest/applicability to all chapters, plus time for Q&A and individual consultation between Handbook Committee liaisons and TC Handbook chairs. Liaisons will still do their best to attend TC Handbook Subcommittee meetings for additional consultation as needed.

We know some TCs have chapters in more than one volume. If your TC has chapters in more than one volume, you should go to the volume meeting for the chapters that are due the soonest. And if your TC hasn't appointed a Handbook Subcommittee chair or representative who can attend one of these meetings, now would be a great time to do so.

On behalf of the Handbook Committee, staff, and ASHRAE Handbook users everywhere, thank you for your continuing dedication to this effort.

v. Seminar 30 – Electronic Project and Document Management: An Introduction and ASHRAE's System

Monday, 1/30, 11 AM to 12 PM, in Augustus III/IV Room (Emperors Level) in the Caesars Palace Hotel.

- <u>Basecamp Fundamentals</u> Cynthia Callaway, P2S Engineering Inc., Long Beach, CA
- <u>ASHRAE Authoring Portal</u> Mark Owen, Handbook Editor, ASHRAE, Atlanta, GA

Location of Section Head Mailboxes & Free Wi-Fi Access at this Society meeting Mailboxes are located just outside ASHRAE Headquarters Office (Forum 8-10 – Pool Level – Caesars Palace Hotel).

Also, Internet access and computers for e-mail are available in the Cyber Café located in the registration area (Palace I, Emperors Level, of the Caesars Palace hotel) during operating hours. Please be considerate to others and limit your usage to five minutes.

Wireless internet will be available in all meeting rooms at Caesars Palace. ASHRAE will be working with the internet provider to manage the bandwidth so that member

expectations of accessibility and speed are fulfilled. We would like to request that everyone limit their usage to functions that do not use excessive bandwidth. Applications such as Facebook, YouTube, streaming video, etc. use excessive bandwidth. Wi-Fi Access: ashrae2017 is the network, lasvegas is password (case sensitive).

3. RPM (Remote Participation Meetings) being held in Las Vegas

The 11th RPM beta test (Remote Participation Meetings – Formerly known as E&P meetings), which allows some TC members to participate in the TC meeting from a remote location electronically, will occur in Las Vegas and the following twelve TCs have agreed to participate in this test: TC 4.2, TC 4.5, TC 6.8, TC 7.3, TC 7.8, TC 7.9, TC 9.2, TC 9.4, TC 10.3, TC 10.6, MTG.CCDG, and MTG.LowGWP – In addition to these TCs, 19 PCs and 2 Ad hoc committees also hosted RPM meetings in Las Vegas. Overall, RPM requests exceeded our capacity on Monday and Tuesday with six RPM sets, but I'm happy to report that 4 additional RPM sets will be purchased for use at the Long Beach meeting. This will allow us to host 10 RPM meetings simultaneously in Long Beach. The chairs of those TCs participating should provide to their Section Head feedback on their RPM meeting experience before TAC meets on Wednesday morning, 2/1.

C. UPCOMING DEADLINES

1. 17-18 Roster Update Process & TC Input Deadline

Remember, the current 2016-2017 roster for your TC, TG or MTG is in effect until after the June meeting this year. The new committee rosters for Society year 2017-2018 will be created based upon the update information that each TC, TG or MTG provides to their section head at this meeting by midnight, Tuesday, 1/31/17 and these new rosters will go into effect on July 1, 2017. Please see your section head for the 2017-2018 Roster Update form if you still need a copy.

2. TC Activity Forms for the Las Vegas Meeting are due to Your Section Head <u>before Wednesday</u>, 2/1/17

TC/TG/TRG Activity Feedback Form (Excel) can downloaded from the Technical Committee webpage under the "TC Forms and Documents" page - https://www.ashrae.org/standards-research--technology/technical-committees/tc-forms-and-documents. Section heads can also provide an electronic copy of the form if requested.

3. Seminar and Forum proposals for Long Beach are due by Monday, February 6th, 2017. Please visit the following site to submit your proposal:

For more information, go to: www.ashrae.org/LongBeach.

D. REMINDERS

1. 16-17 Rosters Access & Distribution - Remember, the current 2016-2017 roster for your TC, TG or MTG is in effect until <u>after</u> the June meeting this year – through Friday, June 30th.

By now, each TC, TG and MTG chair should have received a PDF & MS-Excel file of their new 2016-2017 roster from their Section Head or staff for distribution to the committee. In addition, each member can view all of the rosters of their committees on the ASHRAE Website. Go to www.ashrae.org http://www.ashrae.org, click on the "Membership & Conferences" tab in the header, click on "My Membership" text in the left sidebar, and log in (if you have not logged in lately, you might need to set up a new username and password). Click on the "Update Your Bio / View or Edit Tour Profile" link. Now, you should see your current "bio info". Click on "Committees" on the left sidebar; all of the committees you are a member of will appear. Click on the "blue" roster text at the left hand side of a committee to reveal the roster with linked contact information. Make sure everyone on your committee also knows how to access the roster.

The Provisional Corresponding Member (PCM) position is a relatively new position on TC/TG/TRG rosters. This position allows potential new members to be added by staff to the committee roster any time a request for membership is made by an individual. The position has a 2-year term on the committee. Staff will notify the chair and reissue a new roster to the committee chair any time a provisional member is added. The TC/TG/TRG chair has the option each year during the regular roster update process to convert provisional CMs that have been active participants on the committee the past year into regular CMs or voting members or drop them. If no action is taken, they will time expire from the roster and be removed by staff.

2. Useful TC/TG/TRG/MTG Chair Information and forms on ASHRAE website Information for TC/TG/TRG and MTG chairs can be found on the Technical Committee page of the ASHRAE website at the following link: http://www.ashrae.org/tcs

An updated draft of the TC/TG/TRG Manual of Procedures (MOP) is being considered for approval by TAC at the Las Vegas meeting and it is expected to be posted soon to this site and announced to all TC chairs once posted.

- 3. Request for each TC to briefly review ASHRAE Code of Ethics at start of meeting See the following link for the latest version of the ASHRAE Code of Ethics: https://www.ashrae.org/about-ashrae/
- 4. Make a Special Effort to welcome new Members, and Visitors to TC meeting
 Potential new members for your committee have been encouraged to drop-by your
 meeting. As a result, please make a special effort to recognize and warmly welcome all
 visitors to your meeting A TC can never have too many willing and able volunteers.
- 5. Option for TC Subcommittee Meetings via Conference Calls and Web Meetings
 More and more TCs are taking advantage of a new Society service that allows TCs to
 hold subcommittee meetings by phone and/or web. Many TCs are finding this to be a
 more efficient way for them to conduct subcommittee business and it also allows TC
 members that can't travel to meetings on a regular basis a way to still contribute to the
 TC. Such a change can also eliminate potential conflicts with the TC's program sessions
 at Society meetings. Please pass your conference call/web meeting/webinar requests on
 to the Manager of Research and Technical Services, Mike Vaughn, at
 mvaughn@ashrae.org or MORTS@ashrae.net

6. Is Your Committee Website up to Date?

If not, please ask your webmaster to at least post the latest minutes and the Las Vegas meeting times and agenda. If your website has been neglected, add an action item for this meeting to appoint a responsible member of the TC/TG/TRG who will bring it back to life. The new TC website template has greatly simplified the duties of the TC webmaster and this form of communication is critical to the efficient operation of your committee, and for attracting new members.

The recent conversion to a new TC website platform highlighted a couple areas where a refresher of the ASHRAE rules on website maintenance is warranted. First be aware that ASHRAE Products (i.e., handbook chapters, journal articles, final reports from research projects, etc.) cannot be published on your TC's website. It is very appropriate to post the title and scope of the product and then link the reader to the ASHRAE bookstore or other location on the ASHRAE site where the product may be purchased. Any possible exceptions to this rule must be sent through Steve Comstock for review and approval (scomstock@ashrae.org). The second issue involves timely posting of the draft minutes. Draft minutes (and final, approved minutes from the prior meeting) should be posted to your website (or otherwise distributed to the members) within 60 days after the meeting. Please ensure that your secretary and webmaster are aware of this deadline. To assist your secretary in understanding the procedures for taking and reporting minutes, a video has been developed and posted on the Technical Committees' Training page (https://www.ashrae.org/standards-research-technology/technical-committees/tc-training-and-presentations). On the same page, a video has also been posted for use by webmasters to learn about the procedures and schedules for maintain the new websites.

7. TC 2016-2017 Master Calendar – Now Available through Google - The Technical Committee Master Calendar is now available through Google. In order to access this calendar you need to have a Google account.

Once you log into your Google account, follow the instructions below:

To add a friend's calendar, just follow these steps:

- At the bottom of the calendar list on the left, click Add and select Add a friend's calendar.
- Enter the appropriate email address (techservices1791@gmail.com) in the field provided, then click Add.

This calendar is public and will appear under 'Other Calendars' in the left column.

To set up Google Calendar Sync to your Outlook:

- Make sure you're using a supported operating system and Outlook version.
- Download Google Calendar Sync (version 0.9.3.6) at
- http://dl.google.com/googlecalendarsync/GoogleCalendarSync Installer.exe
- Once a dialog box appears, click Save File. The downloaded file should open automatically. If it doesn't, manually open it from your browser's download window.
- Click OK to confirm that you're aware this is an executable file.
- Read through the Google Calendar Sync Terms of Service, and click I Agree.
- Follow through the Installation Options and click Install to finish the set-up process.

Once Google Calendar Sync is installed on your computer, the Google Calendar Sync Settings window will appear:

In the Settings window, enter your email address and password and select the Sync Option you prefer. Read about each Sync Option.

You'll also be able to set the time interval for syncing to occur. Please keep in mind that 10 minutes is the minimum time interval allowed.

After the initial set-up, you can access the Google Calendar Sync Settings window again by double-clicking the calendar icon in your Windows System Tray.

E. RECENT ANNOUNCEMENT

RAC Prioritizing Research Topics Related to the Residential Sector
 In 2015-2016, RAC started prioritizing for bid accepted research topics that support Goal #3 below from the Research Strategic Plan.

Goal #3: To reduce significantly the energy consumption for HVAC&R, water heating and lighting in existing homes.

2. CEC's Standing Request for Future Society Meeting Program Track Suggestions
The Conferences and Expositions Committee (CEC) oversees ASHRAE's annual and
winter conferences and other specialty conferences and expositions globally. The CEC
continually works to improve the conference experience for all attendees. To help keep a
"pulse" on the technical issues facing professionals in the HVAC&R marketplace, and to
create meetings that reach all of ASHRAE's constituencies, the CEC seeks ideas for
tracks for the Houston 2018 meeting and annual and winter conferences beyond as well
as topics for specialty conferences from TC members.

Please submit your suggestions to ASHRAE Staff member Tony Giometti (<u>Giometti@ashrae.org</u>). You can also add your track suggestion in the "Comment" section of the TC Activity form for the Las Vegas meeting.

CEC is particularly interested right now in getting suggestions for the 2018 Annual Meeting Program in Houston, TX. Please submit your suggestions before February 20, 2017.

3. CEC Always Seeks TC Volunteers willing to Support Content Development and Quality Control for Society Technical Program at Society Meetings
Provide to your Section Head after each Society meeting a list of qualified volunteers from your TC that are potential Technical Session chairs and reviewers of session papers that are related to TC's scope for use by the Conferences & Expositions Committee (CEC) in developing technical content for future technical programs.

There is also now a link on the following webpage of the ASHRAE website where you can volunteer online to be a paper reviewer: https://www.ashrae.org/membership-conferences/conferences/papers-and-programs#reviewers

4. TAC Presentation Template for TC members to use with local Chapter

TAC developed a presentation template that allows TC members, without a lot of effort, to give a presentation to their local chapter on TAC and the TCs in general and to also customize a few slides with information specific to their own TC or TCs. The template is posted on the Technical Committee page of the ASHRAE website for download under the heading "General TC Information."

5. The Professional Development Committee (PDC) is seeking ideas for new ASHRAE Learning Institute (ALI) courses.

The need is for practical courses of broad interest to be presented as face-to-face seminars or short courses, instructor-led online courses and self-paced courses. Examples would include courses with a focus on new technologies that need to be shared, fundamentals that may have been forgotten, standard applications that need explanation, and courses based on new design guides.

The objective of the ASHRAE Learning Institute (ALI) is to provide quality, authoritative and practical technical information of broad interest.

Contact Karen Murray (ASHRAE staff) at kmurray@ashre.org with new course ideas.

F. CURRENT & UPCOMING ASHRAE CONFERENCE PROGRAMS

1. Program Focus at Las Vegas Winter Conference

The Las Vegas Conference Technical Program addresses a wide variety of topics in the application of technology to practice. Specific program tracks are as follows:

Program Focus at Las Vegas Winter Conference

- i. Track 1: Fundamentals and Applications
- ii. Track 2: HVAC&R Systems and Equipment
- iii. Track 3: Water-Energy Nexus
- iv. Track 4: Commercial and Industrial IAQ
- v. Track 5: Mission Critical Design and Operation
- vi. Track 6: Effects of Climate Change on HVAC&R
- vii. Track 7: Energy Efficient Industrial Buildings
- viii. Track 8: Building Operation and Performance

2. Long Beach Annual Conference - June 24 - June 28, 2017

Seminar and Forum proposals for St. Louis are due by Monday, February 6th, 2017.

Conference Website: www.ashrae.org/LongBeach

Conference Program Chair: Ann Peratt Email: ann.peratt@gmail.com

Program Focus at Long Beach Annual Conference

- i. Track 1: Fundamentals and Applications
- ii. Track 2: HVAC&R Systems and Equipment
- iii. Track 3: Refrigeration
- iv. Track 4: Building Life Safety Systems
- v. Track 5: Controls: Smart Building Systems and the Security Concerns as Technology Emerges
- vi. Track 6: Commissioning: Optimizing New and Existing Buildings and their Operation
- vii. Track 7: Net Zero Energy Buildings: The International Race to 2030
- viii. Track 8: Residential Buildings: Standards and Guidelines and Codes
- ix. Track 9: Research Summit

3. CEC Seeks Program Tracks Suggestions for the 2018 Annual Meeting in Houston, TX

CEC is seeking track suggestions for the 2018 Annual meeting technical program. If you have a suggested track, please pass it on to Tony Giometti, staff liaison to CEC, at PRGstaff@ashrae.net before February 20, 2017.

Additional information on past, present, and potential future tracks can be found at the end of this handout as additional information

G. OTHER UPCOMING WORKSHOPS, CONFERENCES AND EVENTS

1. <u>2017</u>

- 2017 ASHRAE Winter Meeting Jan. 28 to Feb. 1, 2017 Las Vegas, NV USA Contact: http://ashraem.confex.com/ashraem/w17/cfp.cgi
- ii. 2nd International Conference on Energy and Indoor Environment for Hot Climates - February 26 - 27, 2017 - Doha, QATAR – Contact: https://www.ashrae.org/membership--conferences/conferences/ashrae-conferences/energy-and-indoor-environment-for-hot-climates
- iii. 2017 American Society of Thermal and Fluids Engineers (ASTFE) Conference and 4th International Workshop on Heat Transfer (IWHT) – Apr. 2 – Apr. 5, 2017 – Las Vegas, NV USA – Contact: http://www.astfe.org/tfec2017/
- iv. Sustainable Management of Refrigeration Technologies in Marine and Off-Shore Fisheries Sectors – April 6-8, 2017 - Bangkok, Thailand – Contact: https://www.ashrae.org/membership--conferences/conferences/ashrae-conferences/marine-2017

- v. **Take Control: Using Analytics to Drive Building Performance Webcast** Apr. 20, 2017 1 pm to 4 pm EDT Contact: www.ashrae.org/webcast
- vi. **Beyond NZEB: Retrofit of Existing Buildings** May 10 11, 2017 Matera, ITALY Contact: http://www.aicarr.org/Pages/EN/Upcoming%20Events/2016/50AiCARR.aspx
- vii. **Climamed 2017** May 12 13, 2017 Matera, ITALY Contact: http://www.aicarr.org/Pages/Convegni/CLIMAMED_2017/Call_for_papers.aspx
- viii. **12th IEA International Heat Pump Conference** May 15 to May 18, 2017 Rotterdam, NETHERLANDS Contact: http://hpc2017.org/ See attached brochure for additional information.
- ix. **2017 ASHRAE Annual Conference** June 24 June 28, 2017 Long Beach, CA USA contact: https://ashraem.confex.com/ashraem/s17/cfp.cgi
- x. **Building Simulation 2017** Aug. 7 Aug. 9, 2017 San Francisco, CA USA Contact: http://www.buildingsimulation2017.org/
- xi. **ISHPC2017** Aug. 7 Aug. 10, 2017 Tokyo, JAPAN Contact: http://biz.knt.co.jp/tour/2017/ISHPC2017/congress.html
- xii. **ASHRAE Building Performance Analysis Conference** September 27-29, 2017 Atlanta GA, USA Contact: https://ashraem.confex.com/ashraem/bpa17/cfp.cgi
- xiii. **2nd ASHRAE Developing Economies Conference** Nov. 10-11, 2017, Delhi, INDIA Contact: https://ashraem.confex.com/ashraem/de17/cfp.cgi

	Cilidy Morello	Whichael Collaini
Track No.	A2018 Houston	W2018 Chicago
1	Fundamentals and Applications	Fundamentals and Applications
2	HVAC&R Systems and Equipment	HVAC&R Systems and Equipment
3	District Energy and Cogen Plants	Standards, Guidelines and Codes
4	Safeguarding your HVAC&R System	Earth, Wind & Fire
5	Residential: Modern Buildings in Hot and Humid Climates	Beyond the "L": IAQ and Air Conditioning in Transportation Applications and Enclosed Vehicular Facilities
6	Professional Skills	Tall Buildings
7	Controls: Troubleshooting Building Management Systems	Modeling Throughout the building Life Cycle
8	Research Summit	Performance and Design of Heat Exchange Equipment under Real Field Type Conditions
9		Refrigerant Mini Track @ Expo

Ann Peratt	Leon Shapiro
A2017 Long Beach	W2017 Las Vegas
Fundamentals and Applications	Fundamentals and Applications
HVAC&R Systems and Equipment	HVAC&R Systems and Equipment
Refrigeration	Water-Energy Nexus
Building Life Safety Systems	Commercial and Industrial IAQ
Controls: Smart Building Systems and the Security Concerns as Technology Emerges	Mission Critical Design and Operation
Commissioning: Optimizing New and Existing Buildings and their Operation	Effects of Climate Change on HVAC&R
Net Zero Energy Buildings: The International Race to 2030	Energy Efficient Industrial Buildings
Residential Buildings: Standards Guidelines and Codes	Building Operation and Performance
Research Summit	

Tom Kuehn	Jennifer Leach
A2016 St Louis	W2016 Orlando
Advances in Refrigeration Systems and Alternative Refrigerants	Systems and Equipment
Research Summit	<u>Fundamentals and Applications</u>
Fundamentals and Applications	Design Build
HVAC Systems and Equipment	International Design
Smart Building Systems/Remote Monitoring and Diagnostics	Standards, Guidelines and Codes
Indoor Environment: Health, Comfort, Productivity	Cutting Edge Technologies
Professional Skills Beyond Engineering	The Great Debate
Renewable Energy Systems and Net Zero Buildings	Modern Residential Systems

David Claridge	Doug Cochran
A2015 Atlanta	W2015 Chicago
HVAC&R Systems & Equipment	Systems & Equipment
HVAC&R Fundamentals & Applications	Fundamentals & Applications
Research Summit	<u>Industrial Facilities</u>
Refrigeration	Large Buildings: Mission Critical Facilities and Applications
Building Operation, Maintenance, and Optimization/Commissioning	Energy Efficiency
Indoor Air Quality	<u>Life Safety</u>
Modeling Throughout the building Life Cycle	Design of Energy and Water Efficient Systems
High Performance Buildings	Hospital Desgin & Codes

Moving AEDG's into the Mainstream

Mike McDermott	Jon Cohen
A2014 Seattle	W2014 New York
Indoor Environment – Health, Comfort and Productivity	Systems and Equipment
Research Summit	<u>Fundamentals and Applications</u>
Ground Source Heat Pumps State of the Art: Design, Performance and Research	Environmental Health Through IEQ
HVAC&R Systems & Equipment	Building Information Systems; Integrating technology for control, management, optimization and efficiency
HVAC&R Fundamentals and Applications	International Design
Standards, Guidelines and Codes	Building Performance and Commissioning for Operation and Management
Refrigeration	Hydronic System Design for Efficiency and Large Buildings
Installation, Commissioning, Operation, Maintenance of Existing Buildings	Tall Buildings: Performance Meets Policy

Professional Skills

Sarah Maston

Saran Maston	
A2013	W2013
Denver	Dallas
Research	HVAC&R Systems & Equipment
Research	HVAC Fundamentals and Applications
Integrated Project Delivery	Standards, Guidelines and Codes
Building Energy Modeling vs. Measurement & Verification- Closing the Gap	Energy Conservation
Mile-High Efficiency & Equipment	<u>Refrigeration</u>
Renewable & Alternative Energy Sources	<u>Large Building Design</u>
HVAC&R Systems & Equipment	Facility Management; Operations, Technology and Energy Improvements
HVAC&R Fundamentals & Applications	Industrial & Transportation Ventilation