



**1791 Tullie Circle, N.E./Atlanta, GA 30329
404-636-8400**

TC/TG/MTG/TRG MINUTES COVER SHEET

(Minutes of all Meetings are to be distributed to all persons listed below within 60 days following the meeting.)

TC/TG/MTG/TRG No. TC 1.10 DATE 2 July 2018

TC/TG/MTG/TRG TITLE Combined Heat and Power Systems

DATE OF MEETING 23 June 2018 LOCATION Houston, TX

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Annette Dwyer	2016	Birol Kilkis (non quorum)		Doug Davis (G)
Blake Ellis	2015	Gearoid Foley	2015	David Kalensky (G)
Geoff Bares	2016			John Karakash (G)
Dragos Paraschiv	2016			Dave Meredith (G)
Farzin Rad	2016			Chinmay Movankar (G)
Richard Sweetser	2016			Ryan Parker (G)
Tim Wagner	2016			Dharam Punwani (G)
				Keith Reigl (G)
				Bill Ryan (CM)
				Harold Smith (CM)
				Amit Vatsa (G)

DISTRIBUTION: All Members of TC/TG/MTG/TRG plus the following:

TAC Section Head: Amir Jokar	SH1@ashrae.net
Christopher G Phelan, CTTC Research Liaison Shinsuke Kato, PhD, Research Liaison Florentino Roson Rodriguez, PE, Handbook Liaison Rick M Heiden, Standard Liaison	CTTC1@ashrae.net RL1@ashrae.net HBS5@ashrae.net SL1@ashrae.net
Mike Vaughn, Manager Of Research & Technical Services	MORTS@ashrae.net

ASHRAE TC 1.10 COMMITTEE MINUTES
Houston, TX
June 26, 2018

The TC 1.10 meeting was called to order by the Chair, Annette Dwyer, at 2:32 PM.

1. Chair Annette Dwyer welcomed all members and acknowledged the guests.
2. Self-introductions were made by all present. TC 1.10 currently has eight (8) quorum Voting Members of which seven (7) were present. Hence, a quorum was established.
3. Secretary Blake Ellis read the TC 1.10 mission statement:

Mission Statement *TC 1.10 is concerned with combined heat and power (CHP) systems, their cycles and components including heat recovery, combustion turbine inlet cooling (CTIC), energy conversion and system integration. The systems provide both power electrical/mechanical and cooling/heating thermal energy and are known as cogeneration systems; trigeneration systems; and combined cooling heating and power systems."*

4. Approval of the Minutes

Copies of the draft minutes of the meeting held in Chicago, IL were distributed to the attendees of the meeting.

MOTION – Richard Sweetser made a motion and Farzin Rad seconded to approve the minutes of the Chicago Meeting. The motion was approved. **(7-0-0, CV)**

5. **Subcommittee Reports**

a. **Programs:** Rich Sweetser (subcommittee chair)

Houston (Annual 2018) Program:

Richard provided a summary of all the programs in Houston. In addition, TC 1.10 sponsored Seminar 20, *The Future of CHP: Packaged Systems, Resilience and Microgrids* on Sunday afternoon. There was an approximate attendance of 50 at the seminar. There were three (3) seminars that were co-sponsored by the TC at the meeting.

Atlanta (Winter 2019) Program:

Richard listed the program tracks for Atlanta and the committee determined to submit a program in *Track 5: Common System Issues and Misapplications*.

MOTION – Richard Sweetser made a motion and Dragos Paraschiv seconded that "TC 1.10 approve the following program in Atlanta: *Not Your Fathers On Site Generation Systems*". The motion was approved. **(7-0-0, CV)**

b. **Research:** Dragos Paraschiv (subcommittee chair)

Dragos Paraschiv updated the committee that the project management subcommittee (PMS) for the updating of the combustion turbine inlet cooling (CTIC) design guide met with the contractor for an update meeting prior to this TC 1.10 meeting. The PMS is made up of Jay Eldridge (from TC 6.2), Geoff Bares (from TC 6.9) and Dragos from TC 1.10. Dharam Punwani is the Principal Investigator. The current schedule is to complete the guide by the end of the year with a draft completed by September 2018.

Dragos attended the breakfast for research subcommittee chairs and they indicated that at the Society level the research administration committee (RAC) received three (3) RTARs, three (3) Work Statements (WS) and one Innovative Research Grant (IRG) at this meeting from this track. One (1) RTAR was accepted, one (1) conditionally accepted and one (1) rejected. The one accepted was co-sponsored by this TC.

c. Handbook: Dr. Tim Wagner (subcommittee chair)

Tim mentioned that this committee is responsible for Chapters 7 and 8 of the HVAC Systems and Equipment Volume (last published in 2016). Chapter 7 is titled “*Combined Heat and Power Systems*” and Chapter 8 is titled “*Combustion Turbine Inlet Cooling*”. Tim did attend the training for handbook subcommittee chairs held earlier this week. Both chapters are to be updated for the 2020 Handbook. Revisions should be completed by next year, so they can be voted on in the 2019 Annual Meeting in Kansas City.

- **Chapter 7:** Changes noted so far there are efficiencies in the efficiencies of reciprocating engines as well as checking information from the recently published *ASHRAE CHP Design Guide*.
- **Chapter 8:** Geoff has a few items that need to be updated. The goal is to look at the new Combustion Turbine Inlet Cooling (CTIC) Design Guide.

d. Membership: Annette Dwyer (subcommittee chair)

Annette reported that this is the last meeting for the current committee. Next year Dragos will become the chair, Blake Ellis will become the vice-chair and Geoff Bares will become the Secretary and the Webmaster. Farzin Rad will become the Research Subcommittee chair. Annette will be the Standards Subcommittee chair. Dan Pyewell and John Molnar will become voting members next year.

e. Web Site: Blake Ellis (webmaster)

Blake reported that the TC 1.10 website was updated prior to the meeting.

f. Honors & Awards: Annette Dwyer (subcommittee chair)

There were no TC 1.10 members that received awards at the plenary on Saturday.

g. Standards

David Kalensky provided an update of SPC 204 (micro CHP – 50kW and under). There were not enough people for a quorum at their meeting yesterday. They are expecting to get a draft completed to be sent out for letter ballot in a month. There were about six or seven in the room and about four that were participating remotely.

6. Chairman’s Overview and Report: Annette Dwyer

Annette reported that Dragos and Blake did attend the Chair’s Breakfast on Sunday she indicated that Society is going to be celebrating the 125th anniversary of ASHRAE and looking to highlight HVAC&R industry information from 1995. There was a note about improperly using ASHRAE letterhead. (but not this TC). (See additional information in Attachment 1).

7. Old Business:

During the meeting in Chicago the TC voted to change the title and mission statement of the TC. Upon submitting the changes to the Technical Activities Committee (TAC) for approval, they made two changes:

1. Changed the title of the TC as follows: *Combined Heat and Power (~~CHP~~) Systems*. There was no motion presented to keep the CHP in parentheses and the TC was comfortable with the title: *Combined Heat and Power Systems*.
2. Changed the mission statement. These changes were passed out to the TC and were generally acceptable to the TC with a few revisions that are incorporated in the motion below.

MOTION – Blake Ellis made a motion and Richard Sweetzer seconded that the scope proposed by TAC be modified to “*TC 1.10 is concerned with combined heat and power (CHP) systems, their cycles and components including heat recovery, combustion turbine inlet cooling (CTIC), energy conversion and system integration. The systems provide both power electrical/mechanical and cooling/heating thermal energy and are ~~variously~~also known as cogeneration systems; trigeneration systems; ~~CHP~~, and combined cooling heating and power ~~CCHP~~ systems.*” The motion was approved. (7-0-0, CV)

8. **New Business:**

CHP Courses: There was some discussion about bringing up the CHP presentation that Lucas Hyman used to present. There is a need to update the presentation and find someone to be a presenter. Geoff is going to reach out to Lucas. An Ad Hoc committee of Rich Sweetser, Geoff Bares, Dragos Paraschiv and Keith Reihl was formed to review the material and report back to the TC in Atlanta the scope of the change.

Chair’s Certificate: Dragos gave a certificate of recognition to Annette Dwyer for her service as Chair.

IDEA Update: The IDEA Liaison report was provided by Blake Ellis. See Attachment 2 to this document for his report.

DOE Update: Richard Sweetser provided an update that ten (10) Technology Assistant Partnerships (TAPs) are funded for the next year. Richard provided a summary of what the TAPs do and how they assist people looking at CHP projects. Richard indicated that the DOE is developing a catalog of packaged CHP systems that is under development for systems up to 10 MW. It will be up for public review in January 2019.

Next Meeting: In Atlanta at the Winter meeting on Tuesday January 15th. The PMS will meet at 12:30pm, the subcommittees at 1:30pm and the main TC meeting from 2:30pm – 4:00pm.

Adjourn

MOTION – Richard Sweetzer moved and Geoff Bares seconded that the meeting be adjourned. The motion was approved (7-0-0, CV).

Meeting adjourned at 3:49pm.

Minutes prepared and respectfully submitted by Blake Ellis, TC 1.10 Secretary.

Attachment 1

AGENDA SECTION TC/TG/TRG CHAIR'S BREAKFAST MEETING 2018 Annual Meeting Houston, TX

Sunday, June 24th

6:30 A.M. – 8:00 A.M. CDT

Hilton Hotel – ALL Section meetings located on 4th Floor except for Section MTG section, which is on 3rd floor.

Section 1, Grand C Room, 4th Floor

Section 3, Grand F Room, 4th Floor

Section 5, Grand H Room, 4th Floor

Section 7, Grand J Room, 4th Floor

Section 9, Grand K Room, 4th Floor

Section MTG, Boardroom 334 Room, 3rd Floor

Section 2, Grand D Room, 4th Floor

Section 4, Grand G Room, 4th Floor

Section 6, Grand I Room, 4th Floor

Section 8, Grand E Room, 4th Floor

Section 10, Grand L Room, 4th Floor

- I. CALL TO ORDER
- II. ROLL CALL AND INTRODUCTIONS (5 minutes)
- III. ADDITIONS AND/OR CHANGES TO THE AGENDA (5 minutes)
- IV. REVIEW SPECIAL ASSIGNMENTS, ACTION ITEMS FROM LAST MEETING, AND NEW ISSUES (10 minutes).
New Assignments:
 - A. **Respond to TAC's Survey on TC Strengths –Weaknesses – Opportunities – Threats (SWOT) before Wednesday 6/27**
- V. DISTRIBUTE WRITTEN INFORMATION AND REQUESTS FROM SOCIETY LIAISONS TO TC/TG/TRG CHAIRS (30 minutes).

Additional Announcements/Reminders:

A. NEW!

1. 2018-2019 George B. Hightower Award Nominations due to Section Head September 1, 2018 & 2018-2019 Service to ASHRAE Research Award Nominations due to Research Liaison Sep. 1, 2018
2. Discuss if TGs, TRGs, and MTGs in section will continue in 18-19 Society Year
3. TC members improperly using ASHRAE letterhead – **Urgent Request!**
4. 18-19 Rosters Access & Distribution
5. MTGs that have been formed since Chicago Meeting – MTG.EBO (Effective Bldg. Operations)
6. Let's Celebrate ASHRAE's Technical Excellence Historically!
7. Oversight of TC websites with regard to Technical Bulletins (White Papers)
8. TC E-mail Position Aliases Annual Update
9. TC MOP (Manual of Procedures)
10. Distribution of TC minutes changed in TC MOP
11. How to Import Your TC Roster Information into MS-Outlook
12. Updated TAC Presentation Template Available for TC members to use with local Chapter
13. Basecamp Information from ECC
14. Notes from TAC / SSPC 90.1 Interface Meeting in Chicago & TC Survey Responses prior to Chicago.

B. AT THIS MEETING

1. On-Site Training Options – Incoming TC Chair Training on Duties and Responsibilities
2. Location of Section Head Mailboxes & Free Wi-Fi Access at this Society Meeting
3. RPM (Remote Participation Meetings)

Announcements and Reminders for TC/TG/TRG & MTG Chairs Houston 2018

C. UPCOMING DEADLINES

1. TC Activity Forms for the Houston Meeting are Due to Section Heads before Wednesday, 6/26/18
2. Seminar and Forum proposals for Atlanta are due by Friday, August 3, 2018

D. REMINDERS

1. 2018-2019 Rosters Access & Distribution
2. Useful TC/TG/TRG/MTG Chair Information and forms on ASHRAE Website
3. Request for each TC to review ASHRAE Code of Ethics at start of TC meeting
4. Make Special Effort to Welcome New Members and Visitors (Potential Members) to TC Meeting
5. Option for TC Subcommittee Meetings via Conference Calls and Web Meetings
6. Is your TC Website Up-to-date?
7. 18-19 TC Master Calendar – Now Available through Google

E. RECENT ANNOUNCEMENTS

1. CEC's Standing Request for Future Society Meeting Program Track Suggestions
2. CEC Seeks TC Volunteers willing to Support Content Development and Quality Control for Society Technical Program at Society Meetings
3. The Professional Development Committee (PDC) is seeking ideas for new ASHRAE Learning Institute (ALI) courses

F. CURRENT & UPCOMING ASHRAE CONFERENCE PROGRAMS

1. Program Focus of Houston Meeting
2. Atlanta Meeting – January 12 – 16, 2019 – Early this year! Plan ahead!
3. Kansas City Meeting – June 22 – 26, 2019

G. OTHER UPCOMING WORKSHOPS AND CONFERENCES

See Announcements & Reminders for list

VIII. REMARKS FROM SOCIETY LIAISONS TO TC/TG/TRG CHAIRS

Liaison members from Research Administration, ASHRAE Program, Handbook, Standards, and other standing committees will have an opportunity to describe their committee activities that relate to the TC/TG/TRG functions, if time permits. Written announcements must be provided as a minimum by liaisons in order to have an opportunity to speak at this meeting.

ADJOURN

**Announcements and Reminders for TC/TG/TRG & MTG Chairs
Houston 2018**

A. NEW!

1. **Nominations for Hightower and Service to ASHRAE Research Awards due September 1, 2018 to SH & RL, respectively.**
2. **Discuss and confirm that TGs, TRGs, and MTGs in section will continue in 18-19 Society Year**
TBD
3. **URGENT Request – Some TC members recently began to improperly use ASHRAE Letterhead to submit Comments on Standards and Codes in Public Review, which implies to the code authority or standard writing organization that it is an official comment of ASHRAE**
For Standards and Codes there is a clear process. It comes through with a vote by the TC to the Manager of Standards (MOS) and then the ASHRAE President has to approve it before it is submitted. If denied, each TC member can still submit their comments as individuals, but not on ASHRAE letterhead.
4. **18-19 Rosters Access & Distribution** - Remember, the current 2017-2018 roster for your TC, TG or MTG is in effect until after the June meeting this year – through Saturday, June 30th.

By now, each TC, TG and MTG chair should have received a PDF & MS-Excel file of their new 2018-2019 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> and log-in (if you have not logged in lately, you might need to set up a new username and password), click on the "Membership" tab in the header, Go to the "My ASHRAE" section of the Membership page and click on "My Participation" text, and scroll down to the "Manage" link. Click on the "Committees" link in the left sidebar. Now, you should see all of the committees that you are a member of will appear. Click on the "blue" roster text on the right hand side of a committee name to reveal the roster in various file formats

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.

5. MTG.EBO (Effective Building Operations)

Scope: MTG.EBO will coordinate the activities of multiple TC/TG/TRG and other stakeholders in the area of training and tools to support the operation of buildings to enhance the indoor environment and use energy effectively. Responsibility will include suggestions for research as well as development of technical programs and special publications on effective building operation for energy management.

The initial MTG roster includes Voting Representatives and Alternates for TCs 1.4 (Control Theory and Application), 7.3 (Operation and Maintenance Management) 7.8 (Owning and Operating Costs) and GPC 1.3 (Building Operation and Maintenance Training for the HVAC&R Commissioning Process)

Other TCs GPCs, and SPCs may also now wish to participate in this MTG with a Voting Representative and Alternate(s) given its scope and charge.

6. Let's Celebrate ASHRAE's Technical Excellence Historically!

ASHRAE is highly regarded for its technological advances. Consider that these advances evolved from the efforts of our predecessors and you, and the current members of ASHRAE's Technical Committees in advancing HVAC&R technology are building on a deep foundation. So, what is the historical foundation of your Technical Committee specialty? ASHRAE will be celebrating its 125th anniversary in a couple years. The Historical Committee has a project to publish articles in the ASHRAE Journal and organize paper presentations celebrating our technical heritage for the anniversary. We plan to emphasize technical advances after 1920. Can you help with an article or a paper or can your TC organize and sponsor a program session for the 2019-2020 meetings?

Here is a list of topics that TC members have already suggested.

- Development of open communication protocols such as BACNET.
- Modern improvements in psychrometrics (Goff & Gratch).
- History and effect of the Environmental movement on our technology. How technology and equipment has improved the indoor environment.
- The refrigerant revolution
- Solving the problems of "sick buildings."
- The re-discovery of past technology and its application today (such as district energy, hydrocarbon refrigerants, off peak energy storage, "total energy" systems, etc.)
- History of the application of electronics to HVAC&R technology.
- ASHRAE's long history in applying innovative technology.
- History and importance of frozen food technology.

All of these topics and others you may think of need to be written up and/or presented by someone.

How about YOU?

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If you can't write a paper, the Historical Committee is also interested in suggestions for the best ASHRAE technical papers since 1995.

The 125th anniversary will be celebrated at the 2019 Annual meeting and the 2020 winter and Annual meetings. The Historical Committee has been charged with the responsibility of organizing Society and industry history projects for the 125th. If you would like to submit an article or a paper organize a program session, or suggest the best technical paper(s) since 1995, contact Chris Preyor, cpreyor@ashrae.org.

There is a deadline – please submit abstracts or outlines before **December 7, 2018** for consideration for the Orlando 2020 or Austin 2020 meetings.

7. Oversight of TC websites with regard to *Technical Bulletins (White Papers)* and alignment with Society positions, policy, or opinions

TCs are allowed to develop Technical Bulletins - A Technical Bulletin does not result from a technical meeting and is a brief 1-2 page statement on a special interest HVAC&R topic that has been developed by either a technical or grassroots committee of ASHRAE. After the TC approves the Technical Bulletin, TAC is responsible for coordinating a peer review by a minimum of three persons with expertise in the field of the bulletin before it can be posted. In addition, ASHRAE's policy for websites states the following: **"4 (3) f. Statements and presentations may not appear on web sites that state, purport, or imply that they present ASHRAE positions, policy, or opinions."**

8. TC E-mail Position Aliases Annual Update

SY 17-18 TC Position e-mail alias addresses for the mandatory positions of the Technical Committee management team (Secretary, Standards Sub. Chair, Program Sub. Chair, Handbook Sub. Chair, and Webmaster) will stay in effect until July 1st. The 17-18 E-mail Alias list with these position aliases is posted on the ASHRAE website www.ashrae.org/TCs under the heading *Procedures, Forms & Information for TCs/TGs/MTGs and TRGs*. The new SY 18-19 E-mail Alias list will be posted in the same location shortly after the Houston meeting.

9. TC MOP (Manual of Procedures)

TAC has restructured the TC MOP so that it is easier to navigate and find information. The new TC MOP can be found on the ASHRAE website www.ashrae.org/TCs under the heading *Procedures, Forms & Information for TCs/TGs/MTGs and TRGs*.

10. Distribution of TC minutes changed in TC MOP

The TC MOP and *TC/TG/MTG/TRG Minutes Cover Sheet* form have both been updated and you are no longer required to send the TAC chair a copy of your minutes after each meeting. The new minutes cover sheet can be found on the ASHRAE website www.ashrae.org/TCs under the headings *Procedures, Forms & Information for TCs/TGs/MTGs and TRGs – Routine Forms for TC/TG/MTGs/TRGs*.

11. 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)

12. Updated TAC Presentation Template Available for TC members to use with local Chapter

TAC recently updated the standard presentation and presentation notes that TC members can use, without a lot of effort, to explain what TCs do for the Society and how that work benefits members in your local ASHRAE Chapter. You should also know that use of this presentation at a chapter meeting in SY 18-19 will earn a chapter 50 (100 points maximum) PAOE points.

The new presentation and presentation notes files are posted now at the following link www.ashrae.org/tcs under the heading *General TC Information* at the top of the page in case you prefer to direct others to these files posted online. The presentation material is now also available in both English and Spanish.

13. Basecamp Information from ECC

More and more TCs and standing committees are making use of ASHRAE's subscription to Basecamp3 to better organize, store, and distribute on-line committee files that are needed for their meetings through a dedicated committee Basecamp site. If you would like to learn more about Basecamp and how to request a site for your particular committee, please go to the Electronic Communications Committee (ECC) web page: (<https://www.ashrae.org/communities/committees/standing-committees/electronic-communications-committee>) and scroll down to the section titled *Basecamp Guidance*

14. Notes from TAC / SSPC 90.1 Interface Meeting in Chicago & TC Survey Responses prior to Chicago.

See meeting notes at the end of this document for additional information and for written responses to individual comments from TCs that responded to survey prior to the Chicago meeting.

B. AT THIS MEETING

1. On-Site Training Options

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

Sunday June 24th, 9:45-10:45 AM in Room #382A, 3rd Floor, in the George R. Brown Convention Center (GRBCC). The training will start with a brief presentation on how to run Effective Meetings and then highlight some of the online resources that are available through the TAC training portal for additional training and information on a variety of topics. The training session will also have a Q&A session so that you can also get answers to your specific questions.

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ii. **RAC's Research Subcommittee Chair's Breakfast**

Monday, June 25th, 6:30 AM – 9:30 AM in BOA DEF room, 2nd Floor, Hilton 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 various ASHRAE *research grant and award programs and RAC announcements on upcoming deadlines and other items.*

iii. **TC Program Subcommittee Chair Training in St. Louis**

Tuesday, 6/26, 11:15 AM – Noon, Room #382C, 3rd Level, in the George R. Brown Convention Center (GRBCC). *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.

iv. **Workshop 6 – Speaking the Same Language: Best Practices in Standards**

Authoring – Mon. 6/25, 11 AM – 12 PM – Room 372AD, 3rd Floor, GRBCC – Sponsor; TC 1.6 Terminology – **Printed program lists this workshop by mistake as being held on Wednesday, 6/27**

v. **Handbook Training for TCs** - 8:00 to 9:00 a.m. - Room: 327 (3rd Floor)—Hilton

This session will cover the ASHRAE Authoring Portal 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.

2. **Location of Section Head Mailboxes & Free Wi-Fi Access at this Society meeting**

Mailboxes are located just outside ASHRAE Headquarters Office (343 A & B – 3rd floor) – Hilton Hotel).

Also, Internet access and computers for e-mail are available in the Cyber Café located in the registration area 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 the Hilton Hotel, and George R. Brown Convention Center (GRBCC). ASHRAE will be working with the internet provider to manage the bandwidth so that member expectations of accessibility and

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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.

Hilton & GRBCC Wi-Fi Access: Network Name: ASHRAE2018, Username: ASHRAE2018, PWD: houston18 (both case sensitive).

3. RPM (Remote Participation Meetings) being held in Houston

The 14th RPM (Remote Participation Meeting) Capable Society Meeting, which allows some TC members to participate in the TC meeting from a remote location electronically, will occur in Houston and the following fourteen TCs have asked to participate in this effort: TC 1.9, TC 2.6, TC 4.2(4), TC 4.3, TC 4.7, TC 5.11, TC 6.6(2), TC 7.3, TC 8.12, TC 9.2, TC 9.3(4), TC 9.4, TC 9.8(4), and TC 10.6 – Many of the TCs host their main Meeting and Subc. Meetings now using RPM capability as noted above parenthetically. A total of 35 RPM meetings will be hosted in Houston when you include project committee and other committee meetings. For comparison, a total of 43 RPM meetings were hosted in Long Beach last year at this time.

The chairs of those TCs participating should provide to their Section Head feedback on their RPM meeting experience before TAC meets on Wednesday morning, 6/28.

4. Retiring TC/TG/TRG/MTG Chair Certificates

TC chairs that are completing their terms as chair at this Society meeting will be presented with a certificate of appreciation. Please coordinate with your Section Head as to when and where at the meeting you would like to be presented with the certificate (Section meeting or TC meeting).

C. UPCOMING DEADLINES

1. TAC Survey on TC Strengths – Weaknesses – Opportunities and Threats (SWOT)

Please Ask Your TC Membership to Participate in the before Wednesday, 6/27/18 using the following survey link: <https://www.surveymonkey.com/r/S9LRZKB>

2. TC Activity Forms for the Houston Meeting are due to Your Section Head before Wednesday, 6/27/18

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. Thank You Letters to Employers

ASHRAE President – Bjarne Olesen – has offered to send letters to the employers of TC volunteers this year thanking them for supporting their employee’s service on an ASHRAE TC during Society year 2017-2018. If requested by the volunteer, the letter will be sent to his/her employer by the end of July or early August and the volunteer will receive a copy.

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Please let your committee members know that they will be receiving an email about employer thank you letters in early July with details on how to request a thank you letter.

4. Seminar and Forum proposals for Atlanta are due by Friday, August 3rd, 2018.

Please visit the following site to submit your proposal:

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

5. 2018-2019 Hightower Award & Service to ASHRAE Research Award Nominations by Friday, September 1st

Nominations for the 2018-2019 *George B. Hightower Technical Achievement Award* are due to you Section Head by September 1, 2018. The award recognizes outstanding technical leadership and contributions on a TC/TG/TRG during the past four years, excluding research and standards activities. Please go to the Technical Committee page of the ASHRAE website at the following link under the "Procedures, Forms..." heading:

<http://www.ashrae.org/tcs>

Nominations for the 2018-2019 *Service to ASHRAE Research Award* for TC volunteer efforts in research are due to RAC research liaison by September 1, 2018. Please go to the Research page of the ASHRAE website at the following link under the "Research Grants and Awards" heading: <http://www.ashrae.org/research>

6. 2018 RPM (Remote Participation Meetings) Request for Chicago Meeting

RPM Meetings at ASHRAE Winter Conference in Atlanta

- RPM meetings are not automatically assigned; you must request the RPM meeting every meeting.
- If you think you might need an RPM meeting in Atlanta, please submit your request via the committee meeting room request link on the ASHRAE website before the submission deadline of **Friday, October 5th**
- Use the form for Technical Committees under the Committee Meetings accordion.
- Requests should be received by the deadline set by ASHRAE meetings staff.
- Please provide the reason for your RPM request in the box provided on the form.
- Everyone who requests an RPM meeting will get an email to confirm their request 4 to 6 weeks prior to the ASHRAE conference.
- If your committee no longer needs the RPM, please let us know in response to the confirmation request so we can provide RPM access to other committees that have requested during the same time slot.
- The final RPM meeting schedule will be sent out 1 to 2 weeks prior to the start of the ASHRAE conference.
- Please note that Sunday, Monday, and Tuesday tend to overbook and requests may need to be prioritized.
- Scheduling priority will be given to committees that are trying to meet quorum and who are up to date on deadlines and meeting notes.
- Last minute requests are very hard to accommodate and priority will be given to emergency situations.

D. REMINDERS

1. 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>

2. 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/>

3. 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.

4. 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

5. Is Your Committee Website up to Date?

If not, please ask your webmaster to at least post the latest minutes and the Houston 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 Mark Owen for review and approval (mowen@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

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minutes, a video has been developed and posted on the Technical Committees' Training page (<http://www.ashrae.org/tcs>). On the same page, a video has also been posted for use by webmasters to learn about the procedures and schedule to maintain the new websites.

6. **TC 2018-2019 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

1. 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 Orlando 2020 winter 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 (Giometti@ashrae.org). You can also add your track suggestion in the "Comment" section of the TC Activity form for the Houston meeting.

2. 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.

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

The Professional Development Committee (PDC) is actively seeking ideas for new ASHRAE Learning Institute (ALI) courses. We need 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 include courses with a focus on new technologies that need to be shared, fundamentals for engineers new to the discipline, standard applications that need explanation, and courses based on new design guides. Does your TC have a potential course idea?

Contact Karen Murray (ASHRAE staff) kmurray@ashre.org or Charlie Henck (2018-19 PDC chair) PDCchair@ashrae.net with your course ideas.

F. CURRENT & UPCOMING ASHRAE CONFERENCE PROGRAMS

1. Houston Annual Conference - June 23 – June 27, 2018

Conference Website: <https://www.ashrae.org/conferences/annual-conference>
Conference Program Chair: Cynthia Moreno

Program Focus at Long Beach Annual Conference

- i. Track 1: HVAC&R Systems and Equipment
- ii. Track 2: Fundamentals and Applications

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- iii. Track 3: District Energy and Cogeneration Plants
- iv. Track 4: HVAC & Resiliency: Safeguarding our World
- v. Track 5: Residential – Modern Building in Hot and Humid Climates
- vi. Track 6: Professional Skills
- vii. Track 7: Research Summit
- viii. Track 8: HVAC&R Control Freaks
- ix. Track 9: HVAC&R Analytics

2. Atlanta Winter Conference – Jan. 12 – Jan. 16, 2019

Seminar and Forum proposals for Chicago are due by **Friday, August 3, 2018.**

Conference Website: <https://www.ashrae.org/conferences/winter-conference>

Conference Program Chair: Corey Metzger

Program Focus at Atlanta Winter Conference

- i. Track 1: Systems and Equipment
- ii. Track 2: HVAC&R Fundamentals and Applications
- iii. Track 3: Refrigeration
- iv. Track 4: Construction, Operation, and Maintenance of High Performance Systems
- v. Track 5: Common System Issues and Misapplications
- vi. Track 6: The Convergence of Comfort, Indoor Air Quality, and Energy Efficiency
- vii. Track 7: Building Integrated Renewables and Natural Systems
- viii. Track 8: The Engineer's Role in Architecture

TC Meeting Room Request forms and RPM requests for Atlanta meeting are due **Friday October 5th.**

3. Kansas City Annual Conference - June 22 – June 26, 2019

Seminar and Forum proposals for Houston are due by **TBD.**

Conference Website: [TBD](#)

Conference Program Chair: TBD

Program Focus at Kansas City Annual Conference:

Current Conference Tracks:

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- Fundamentals and Applications*
- HVAC&R Systems and Equipment*
- Professional Development*
- Research Summit*

*indicates Tracks that will be part of the Program

Potential Additional Track Ideas:

- Optimization in HVAC&R
- Commissioning/Continuous Commissioning/Automated Fault Detection
- Modeling Throughout the Building Life Cycle
- Hydronic System Design
- Existing Buildings
- High Performance from Energy Intensive Building Types
- Energy Efficiency & Renewables
- Energy Recovery and Cascade Systems
- Building Certification and Operating Metrics
- Ground-Coupled Systems
- Life Safety
- Indoor Air Quality

Final list of tracks for Kansas City meeting will be finalized by the Conferences & Exposition Committee in Houston.

G. OTHER UPCOMING WORKSHOPS, CONFERENCES AND EVENTS

1. 2018

- i. **EPRI Electrification 2018 International Conference & Exposition** – August 20 to 23, 2018 – Long Beach, CA USA
<https://www.ashrae.org/conferences/ashrae-endorsed-conferences/epri-electrification-2018-international-conference-exposition>
- ii. **1st IIR International Conference on the Applications of HFO Refrigerants** Sep. 2 to 5, 2018 – Birmingham, England
<https://www.ashrae.org/conferences/ashrae-endorsed-conferences/1st-iir-international-conference-on-the-applications-of-hfo-refrigerants>
- iii. **2018 JSRAE Annual Conference** – Sep. 4 to 7, 2018 - Fukushima 963-8642, Japan – Contact: <https://www.ashrae.org/conferences/ashrae-endorsed-conferences/2018-jsrae-annual-conference>
- iv. **IBPC 2018** – Sep. 23 to 26, 2018 – Syracuse, NY USA – Contact: <https://www.ashrae.org/conferences/ashrae-endorsed-conferences/ibpc-2018>

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- v. **Building Simulation 2018** – Sep. 26 – Sep. 28, 2018 – Chicago, IL USA – Contact:
<https://www.ashrae.org/conferences/topical-conferences/2018-building-performance-analysis-conference-and-simbuild>
- vi. **AHR Expo-Mexico** - October 2-4, 2018 – Mexico City, Mexico -
<https://www.ashrae.org/conferences/ashrae-endorsed-conferences/ahr-expo-mexico>
- vii. **The Third International Conference on Efficient Building Design – Materials and HVAC Equipment Technologies** - October 4–5, 2018 - Beirut, Lebanon
<https://www.ashrae.org/conferences/topical-conferences/the-third-international-conference-on-efficient-building-design>
- viii. **AHR Expo 2019** – Jan. 14 to 16 – Atlanta, GA USA – Contact:
<https://www.ashrae.org/conferences/winter-conference/ahr-expo>
- ix. **ICR 2019** – August 24-30, 2019 – Montréal,, Québec, H2Z 1H2, Canada – Contact:
<https://www.ashrae.org/conferences/ashrae-endorsed-conferences/icr-2019>

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Meeting Notes

ASHRAE Technical Activities Committee Interface Meeting with SSPC 90.1

Monday, January 22, 2018

Note: This meeting was held to discuss ongoing concerns between the Technical Committees and SSPC 90.1 leadership. The group reviewed TCs responses to a survey issued prior to the meeting, and formulated responses. The following were present at the meeting:

Attendees:

Drake Erbe, Chair SSPC 90.1
Richard Lord, Vice-Chair SSPC 90.1
Tom Culp, Vice-Chair SSPC 90.1
Kelley Cramm, Chair TAC
Tom Justice, Vice-Chair TAC
Bert Phillips – TAC Section 2 Section Head
Krishnan Gowri – TAC Section 9 Section Head & SSPC 90.1
Mark Smith – TC 5.2 Liaison to SSPC 90.1)
Steve Ferguson, ASHRAE Senior Manager of Standards
Mike Vaughn, ASHRAE Senior Manager of Research and Technical Services
Connor Barbaree, ASHRAE Manager of Codes

The group had some discussion regarding the process for a TC to establish a liaison to SSPC 90.1 The process appears to be somewhat cumbersome. The TCs don't hear back from the 90.1 committee in a timely manner. The process seems secretive to the TCs. Drake noted that the 90.1 committee has a process which they must follow and it includes establishing copyright paperwork before an individual is allowed to join the committee. The TC should vote on a liaison and then the TC Chair should send an email to the 90.1 Chair informing them of the vote. The liaison should go ahead and attend the 90.1 meeting. Drake will check to see if the 90.1 committee can establish a "provisional liaison" which would allow the TC representative to participate prior to final approval.

The following question was sent to TC Chairs:

"As a TC Chair, what issues or concerns do you have with the current version of Standard 90.1 or with the development process for Standard 90.1? (Please include TC number in response)"

1. From TC 5.1:

Effectiveness of the limitations in the fan and fan systems energy use. 1/4/2018 8:13 PM

Response from TAC/SSPC 90.1:

TC 5.1 needs to assign a formal liaison to SSPC 90.1 so they can give input on this subject.

2. From TC 4.1:

None in particular, but continuing to keep documents like these as simple and straight-forward as possible is always an interest to our committee. Also continuing to bear in mind that peak load calculation and energy calculations are uniquely separate exercises is important. Unfortunately we cannot send someone to the working group because this is the time slot for our main committee meeting. 1/2/2018 11:10 AM

Response from TAC/SSPC 90.1:

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Acknowledged. Thank you for your input.

3. From unidentified TC:

No particular issues with the current version or development process. Just a continuous concern for the ASHRAE 90.1 committee to continue to provide a path for minimally compliant equipment.

12/27/2017 2:35 PM

Response from TAC/SSPC 90.1:

Please note that there is a new compliance path using Appendix G.

4. From TC9.2:

The biggest concern I have is we still need clear recognition that safety concerns for Industrial applications need to be met before energy efficiency goals are applied.

12/13/2017 11:33 AM

Response from TAC/SSPC 90.1:

Safety is always a priority over energy savings. The standard agrees.

5. From TC 8.02:

Impact of centrifugal chiller efficiency on customers and manufacturers 12/8/2017 8:45 AM

Response from TAC/SSPC 90.1:

The efficiency requirements were extensively cost justified with input from AHRI.

6. From TC 7.6 (Building Energy Performance):

While our TC is cognizant for Std. 90.1, which we follow regularly, our focus is on how the design elements of 90.1 are implemented in occupied buildings and whether they in fact produce energy savings. Our main concern is verifying that 90.1 is implemented in buildings deemed to be in compliance; how can we show, using measured data, that 90.1 does in fact lead to the lower EUIs projected by analysis? While this may not be within the scope of 90.1 we all should be concerned about this. As for the 90.1 development process our only concern is how do we get TC 7.6 members interested enough to get involved in SSPC 90.1 working groups or subcommittees? The development process seems to be quite rigorous and adequate; it is slow but needs to be to be thorough and to maintain quality. 12/7/2017 10:55 AM

Response from TAC/SSPC 90.1:

There are 2 liaisons from TC 7.6 that have not yet participated. We encourage them to do so. The DOE is working on a study to determine if buildings are actually saving energy. Please follow DOE "Commercial Buildings Energy Code Field Study".

7. From TC9.10:

Not sure if 90.1 folks fully understand consequences of some energy saving ideas on the safety and function of lab spaces. We have a liaison, but the interaction can be spotty. 12/4/2017 5:25 PM

Response from TAC/SSPC 90.1:

Please submit a proposal to the 90.1 committee if you see problems with lab safety created by the standard.

8. From TC 3.2 (Refrigerant System Chemistry):

Does not get into energy efficiency requirements. 12/4/2017 10:51 AM

Response from TAC/SSPC 90.1:

No response

9. From TC 2.08:

Focuses on building sustainability and has direct correlation with 90.1. In addition, the Green guide by TC 2.08 is directly influenced by 90.1. Hence TC 2.08 would suggest a more inclusive standard development process wherein we are more involved. 12/4/2017 1:33 AM

Response from TAC/SSPC 90.1:

Please assign 1 or 2 liaisons to actively participate in the 90.1 committee.

10. From MTG.OBB:

Standard 90.1 has evolved for a long history. I am concerned about the new developments focus on many small issues and making the standard too complicated for code officials and energy modelers, while ignoring key drivers of actual energy use in buildings. Static data and simplified assumptions have been used in energy modeling and simulations to calculate energy use of buildings and evaluate technology performance before technology measures get adopted in the standard. No considerations have been given to variation of weather data due to climate change, actual problems in buildings (operation and maintenance issues), and stochastic of energy-related occupant behavior in buildings. 12/4/2017 1:32 AM

Response from TAC/SSPC 90.1:

Please reach out to the 90.1 committee leadership so we can work together.

11. From TC 7.3 Operations and Maintenance:

Although Standard 90.1 is more catered to the designer than the facility manager and operator, input from the TC on life cycle considerations, which may result in energy efficiencies, might be helpful. 12/3/2017 9:40 PM

Response from TAC/SSPC 90.1:

This happens at the building permit time frame so ongoing operations, maintenance, and commissioning are not addressed in the standard. The 90.1 committee would love to have more end users involved.

12. From TC 9.07 Education Facilities:

90.1 is highly biased to commercial buildings, or better stated, not structured to be inclusive of diversity of buildings found on college and university campuses. Applying the requirements of the code generally intended for commercial structures creates challenges for higher education. A performance based alternative (not the ECB method) to the prescriptive method would be valuable. Universities, colleges, and K-12 if had the flexibility to design, model, and operate building assets based upon a performance threshold (not a high performance building, but a reasonable baseline 20-30% better than the median of the appropriate building stock), this would allow for owners and

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designers to incorporate innovative technologies and practices to achieve greater energy efficiency without financial constraints of prescriptive measures. The diverse buildings types of most benefit include sporting arenas / stadiums, science & research laboratories, large auditoriums, student recreation spaces, student services buildings unions with food service, etc. 12/3/2017 7:09 PM

Response from TAC/SSPC 90.1:

We agree; the 90.1 committee has limitations and can't address multiple building types individually.

13. From TC 6.6, Service Water Heating:

We have representation on the committee via a liaison, so I feel like our TC is abreast of happenings. Committee members frequently express concerns that hot water energy consumption is not covered to the detail needed, but I am not sure how involved those members have been in 90.1 development. 12/3/2017 10:55 AM

Response from TAC/SSPC 90.1:

We now have a liaison from your committee. We appreciate the help we're receiving from TC 6.6.

14. From TC 1.6:

Would like greater harmonization of terms (glossary) between 90.1 and other ASHRAE stds/guidelines and iccc and appraisers. 12/3/2017 12:06 AM

Response from TAC/SSPC 90.1:

We agree. The committee always attempts to align definitions but since many industry standards/codes/guidelines don't align, this task is not always working. We always look at ICC definitions but can't always align them.

Conferences and Expositions Committee Information Items for Technical Committees 2018 Annual Conference, Houston, Texas

This “handout” includes recent updates and upcoming deadlines in the preparation of the technical program for the Winter, Annual and Topical conferences. It is being provided in advance of the conference for your information so that it does not have to be presented during the onsite TC section breakfasts. CEC will provide a short update at the TC breakfasts and answer any questions. *Kevin Marple, 2017-2018 CEC Vice Chair, kmarple@benzco.com*

1. 2019 Annual Conference Research Summit Call for Papers

The 2019 Annual Conference in Kansas City, MO features a call for papers for the Research Summit track. Please consider submitting papers or groups of papers as entire sessions from your TC for the conference. Abstracts are due August 21, 2018. If you have any questions, please contact Melanie Derby, the Research Summit Track Chair at derbym@ksu.edu

2. Student Authors Recognized at 2018 Annual Conference

Starting at the 2017 Winter Conference, CEC began recognizing student papers. Certificates were awarded to students at their assigned conference paper session. Certificates in the categories “*Best Paper*” and “*Honorable Mention*” were presented to graduate candidates and PhD candidates.

Four students will be recognized with CEC student paper awards at the 2018 Annual Conference.

3. Program statistics for Houston; for a total of 108 available slots:

Conferences Papers

- 127 conference paper abstracts submitted, 105 approved
- 67 conference papers presented
- 20 Conference Paper Sessions

Technical Papers

- 21 Technical papers received
- 14 Technical papers presented
- 4 Technical Paper Sessions

Seminars

- 100 submitted
- 72 presented

Workshops

- 9 submitted
- 7 presented

Forums

- 11 submitted
- 4 presented

Debates

- 2 submitted
- 1 presented

Panels

- 4 submitted
- 1 scheduled (withdrawn)

4. 2019 ASHRAE Winter Conference in Atlanta, January 12-16:

<http://www.ashrae.org/atlanta>

- a. Conference Papers are due July 9
- b. Seminar, Forum, Debate, Panel and Workshop proposals are due August 3
- c. Program notifications go out September 14
- d. Web site opens for presentation uploads on November 30
- e. All presentations due online January 4, 2019

2019 Winter Conference Chair is Corey Metzger, corey.metzger@resourcece.com

Tracks and Track Chairs

Track 1: Systems and Equipment

Joe Firrantello, j.firrantello@gmail.com

Track 2: HVAC& R Fundamentals and Applications

Rick Hermans, herma015@umn.edu

Track 3: Refrigeration

Sonya Pouncy, sonya.pouncy@gmail.com

Track 4: Construction, Operation and Maintenance of High Performance Systems

Leticia De Oliveira Neves, leneves@gmail.com

Track 5: Common System Issues and Misapplications

Lee Riback, lee.riback@gmail.com

Track 6: The Convergence of Comfort, Indoor Air Quality and Energy Efficiency

Ashish Rakheja, ashish.rakheja@aeonconsultants.in

Track 7: Building Integrated Renewables and Natural Systems

Maggie Moninski, maggie.moninski@gmail.com

Track 8: The Engineer's Role in Architecture

Ashu Gupta, ashu.energy@gmail.com

5. **2019 ASHRAE Annual Conference in Kansas City, MO:** www.ashrae.org/kansascity
 - a. Conference Paper Abstracts, Technical Papers and Paper Session requests due August 21, 2018
 - b. Conference Papers due November 30, 2018

2019 Annual Conference Chair is Carrie Anne Monplaisir, carrie.monplaisir@gmail.com

Tracks and Track Chairs

Track 1: Systems & Equipment in the Built Environment

Kimberly Pierson, kdpwildcat@gmail.com

Track 2: Fundamentals and Applications

Gary Debes, gary.debes@comcast.net

Track 3: Optimization in HVAC&R

Vikrant Aute, vikrant@umd.edu

Track 4: Commissioning New & Existing Buildings

Raul Simonetti, raul.simonetti@carel.com

Track 5: Occupant Health & Safety

Chris Reinders-Caron, creinders@cannondesign.com

Track 6: Modeling Throughout the Building Life Cycle

Nivedita Jadhav, nivi2307@gmail.com

Track 7: Professional Development

Rich Rose, richr@mticontrols.com

Track 8: Research Summit

Bing Liu, bliu@neea.org

Track 9 (Mini-Track): Radiant Heating & Cooling Mini-Track

Devin Abellon, devin.abellon@yahoo.com

6. Potential Sources Bias Disclosure

In accordance with the ASHRAE Code of Ethics, speakers have been asked to fill out a potential sources bias disclosure document that will note affiliations/ involvement with any organizations with financial or commercial interest in the subject matter to be discussed.

7. TC Opportunities:

- a. TC members who want to submit a program should consult the Track Chair for assistance in preparing a good abstract, learning objectives, and Q&A to help assure complete submission.
- b. TCs and Sections are welcome to suggest new presentation formats (like how the Workshop was born). Best way to present material to benefit attendee is a goal.
- c. TCs and Sections are encouraged to work with a track chair to put together a series of sessions that can be used as a mini-track.
- d. Putting together an entire track of programs in cooperation with other TCs is also encouraged; keeping in mind that track subjects are typically determined 14-15 months prior to a conference.

8. CEC Announces a Call for Reviewers and Paper Session Chairs

ASHRAE has a number of conferences coming up that include papers, and CEC seeks your help in reviewing them. Additionally opportunities to chair a paper session are available. Specifically, there is an immediate need for reviewers and session chairs for the 2019 Winter Conference and various topical conferences.

Please submit your interest in reviewing a paper or chairing a paper session using the online form: http://web.ashrae.org/cec_request/. Please contact Tiffany Cox, ASHRAE Assistant Manager, Conference Programs, at tcox@ashrae.org for more information.

9. Topical Conferences

ASHRAE's topical conferences are focused on a particular aspect of the industry and bring together professionals for networking and professional development. Two topical conferences are available for the remainder of 2018.

2018 Building Performance Analysis Conference and SimBuild, co-organized by ASHRAE and IBPSA-USA

<http://www.ashrae.org/BuildPerform2018>

September 26-28, 2018, Chicago, Illinois

The conference program includes peer-reviewed papers, non-paper presentations and new program format types as well as the fourth annual ASHRAE LowDown Showdown modeling competition with a record 14 teams competing.

The Third International Conference on Efficient Building Design

<http://www.ashrae.org/Beirut2018>

October 4–5, 2018, Beirut, Lebanon

The conference is to present advanced research on the topics of advanced building and bioclimatic designs for attaining occupant comfort and good environmental quality addressing systems and technologies adapted to the Arab region in both moderate and hot humid climates.

10. Program Types

Technical Paper Session:

These sessions present papers on current applications or procedures, as well as papers resulting from research on fundamental concepts and basic theory. Papers presented in these session have successfully completed a rigorous peer review. Forms for written comment are available at each session, and sent to respective authors for reply and publication in ASHRAE transactions, if received by a certain date.

Conference Paper Session:

These sessions present papers on current applications or procedures, as well as papers reporting on research in process. These papers differ from technical papers in that they are shorter in length and undergo a much less stringent peer review.

Seminar:

These sessions feature presentations on subjects of current interest. There are not papers attached to seminars.

Workshop:

These sessions enable technical committees and other ASHRAE committees to provide a series of short presentations on a topic requiring specific expertise. These short presentations are provided with an increased emphasis on audience participation and training in a specific set of skills. There are not papers attached to workshops.

Forum:

The sessions are “off-the-record” discussions held to promote a free exchange of ideas. Reporting of forums is limited to allow individuals to speak confidentially without concern of criticism. There are not papers attached to forums.

Panel Discussion:

Panel discussions can feature a broad range of subjects and explore different perspectives on industry related topics. This session format includes a panel of 3-4 speakers each addressing a facet of the session topic, followed by an interactive discussion lead by the session chair. Panel Discussions may be 60 minutes or 90 minutes in length and will be posted online in the Virtual Conference.

Debate:

Debates highlight hot-button issues commonly faced by our membership. Industry experts, either on teams or as individuals, argue opposing sides of an issue, concluding with position summaries and audience feedback. Debate sessions may be 60 minutes or 90 minutes in length and will be posted online in the Virtual Conference.

IDEA Liaison Report to ASHRAE TC 6.2 and TC 1.10

Prepared by: John Andrepont (+1-630-353-9690 / CoolSolutionsCo@aol.com)

The International District Energy Association (IDEA) is an industry association of >2,300 members. The membership includes: District Energy (Thermal) Utilities; Physical Plant and Utilities Personnel from University, Medical, and other District Energy Facilities; Equipment Manufacturer/Suppliers; Service Providers to the Industry; other District Heating & Cooling Associations; plus Government, Student, and other Personal members.

IDEA publishes a quarterly magazine, entitled *District Energy*.

IDEA has two major conferences each year (one focused on campus District Energy systems and one focused on commercial thermal utility District Energy systems), as well as smaller workshops on subjects such as marketing and thermal distribution, plus occasional regionally-focused or technology-focused conferences. Each major conference also focuses on integrating Combined Heat & Power (CHP) and Thermal Energy Storage (TES) with District Energy.

Upcoming IDEA conferences include:

- Microgrid 2.0
October 29-31, 2018 – Baltimore, Maryland
- District Cooling 2018
December 9-11, 2018 – Dubai, UAE
- 32nd Annual Campus Energy Conference, Workshops & Trade Show
February 26-March 1, 2019 – New Orleans, Louisiana
- 110th Annual Conference & Trade Show
June 24-27, 2019 – Pittsburgh, Pennsylvania
- 33rd Annual Campus Energy Conference, Workshops & Trade Show
February 10-14, 2020 – Denver, Colorado
- 111th Annual Conference & Trade Show
June 22-25, 2020 – Washington, D.C.

For further information on IDEA, contact:

Rob Thornton, President
IDEA
24 Lyman Street, Suite 230
Westborough, Massachusetts 01581

tel: 508-366-9339
fax: 508-366-0019
e-mail: rob.idea@districtenergy.org
website: www.districtenergy.org