

THE RESEARCH & TECHNICAL ACTIVITIES REPORT

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FOR TC/TG/MTG/SSPC CHAIRS, VICE CHAIRS &
RESEARCH SUBCOMMITTEE CHAIRS
February 6, 2015

2015 WINTER MEETINGS

The winter meetings of the Research Administration Committee (RAC), Technical Activities Committee (TAC), Technology Council, and the Board were recently completed with the results below. This report also includes information for RAC's and TAC's upcoming annual meeting.

NEW PROJECTS AWARDED

The following five projects were approved for award as follows:

- **1607-RP**, *Design and Utilization of Thermal Energy Storage to Increase the Ability of Power Systems to Support Renewable Energy Resources*; Responsible Committee: **TC 6.9** (Thermal Energy Storage); Proposer: University of Wisconsin - Madison. Estimated Duration: 18 months; Cost to ASHRAE: \$142,461
- **1615-RP**, *Fault Detection and Diagnostic (FDD) Methods for Supermarkets- Phase I*; Responsible Committee: **TC 7.5** (Smart Building Systems), Co-Sponsor: TC 10.7 (Commercial Food and Beverage Refrigeration Equipment); Proposer: University of Nebraska - Lincoln. Estimated Duration: 15 months; Cost to ASHRAE: \$82,272
- **1663-RP**, *Residential IAQ Guide*; Responsible Committee: **EHC** (Environmental Health Committee); Proposer: Schoen Engineering, Inc. Estimated Duration: 18 months; Cost to ASHRAE: \$150,000
- **1717-RP**, *Improve Accuracy and Reproducibility of ASTM-E681 Test Method for Flammability Limit Measurement of 2L Flammable Refrigerants*; Responsible Committee: **TC 3.1** (Refrigerants and Secondary Coolants); Proposer: University of Maryland; Estimated Duration: 18 months; Total Cost: \$194,560; Co-Funder: AHRTI \$30,000; Cost to ASHRAE: \$164,560
- **1724-RP**, *Study the HVAC System Photo-degradation Caused by the Low Level UVC light Irradiance Used for Coil Maintenance and Air Stream Disinfection*; Responsible Committee: **TC 2.9** (UV Air & Surface Treatment); Proposer: University of Dayton Research Institute; Estimated Duration: 18 months; Cost to ASHRAE: \$90,000

PROJECTS THAT FAILED TO BE AWARDED

- **1696-TRP**, *Thermal, Moisture and Air Transport Property Values for New Building and Insulating Materials*; Responsible Committee: **TC 4.4** (Building Materials and Building Envelope Performance); Estimated Duration: 36 months; Estimated Cost to ASHRAE: \$200,000 – Status: Single bid received. TC 4.4 has decided to rebid project with a better clarified RFP and expanded recommended bidders list.
- **1757-URP**, *Airborne Virus Inactivation, Phase I: Using Fluorescent Bleaching of Aerosols as a Measure of Exposure to Oxidizing Ions and Radicals*; Responsible Committee: **RAC** (Research Administration Committee); Estimated Duration: 16 months; Cost to ASHRAE: \$199,617 – Status: RAC rejected this topic for funding as an unsolicited research proposal (URP) given the funding amount requested and instead will encourage proposer to work with appropriate ASHRAE TCs to develop the topic for solicitation and then to bid on the project with others.

PROJECTS STILL PENDING AWARD

- **1705-TRP**, *Investigation of Airside Fouling on Outdoor Heat Exchangers*; Responsible Committee: **TC 8.4** (Air-to-Refrigerant Heat Transfer Equipment); Co-Sponsors: TC 8.11 (Unitary and Room Air Conditioners and Heat Pumps); Co-funding: None; Estimated Duration: 24 months; Estimated Cost to ASHRAE: \$200,000 - Status: TC still evaluating bids received.
- **1692-URP**, *Effects of Shielding on the Wind Loads on Roof Mounted Equipment*; Responsible Committee: **TC 2.7** (Seismic and Wind Resistant Design); Co-Sponsors: The Insurance Institute for Business & Home Safety's (IBHS); Estimated Duration: 15 months; Total Cost: \$368,000; IBHS Co-funding: \$268,000; Cost to ASHRAE: \$100,000 - Status: TC still evaluating unsolicited research proposal.

POTENTIAL PROJECTS FOR BID IN SPRING 2015

The following seven tentative research projects (TRPs) are expected to be released for bid or re-bid this spring:

Approved Work Statements Available for Bid in spring 2015

- **1414-TRP-C**, *Update of U-Factors, Solar Heat Gain Coefficients and Visible Transmittances of Standard Fenestration Units Made from Representative Fenestration Frame and Glazing Systems in the Fenestration Chapter of the Handbook of Fundamentals*; Responsible Committee: **TC 4.5** (Fenestration); Co-Sponsors: None; Estimated Duration: 12 months; Estimated Cost to ASHRAE: \$100,000; Status: **Conditionally Accepted**. Work with Research Liaison (RL) to clear RAC's conditions so project can bid.
- **1614-TRP-C**, *Developing a Test Method to Determine the Effectiveness of UVC Systems on Commercial Cooking Effluent*; Responsible Committee: **5.10** (Kitchen Ventilation); Co-Sponsors: None; Estimated Duration: 24 months; Estimated Cost to ASHRAE: \$264,000; Status: **Conditionally Accepted**. Work with Research Liaison (RL) to clear RAC's conditions so project can bid.
- **1696-TRP (re-bid)**, *Thermal and Moisture Transport Property Values for New Building and Insulating Materials*; Responsible Committee: **TC 4.4** (Building Materials and Building Envelope Performance); Co-Sponsors: None; Co-funding: None; Estimated Duration: 36 months; Estimated Cost to ASHRAE: \$200,000; Status: **Nearly Ready to Re-Bid**. Work with RL to finalize.
- **1702-TRP**, *Case Studies to Test Performance Measurement Protocols*; Responsible Committee: **TC 7.6** (Building Energy Performance); Co-Sponsors: None; Co-funding: None; Estimated Duration: 24 months; Estimated Cost to ASHRAE: \$200,000; Status: **Ready to Bid**
- **1740-TRP-C**, *Hydrogen Fluoride Capacity of Desiccants*; Responsible Committee: **TC 3.3** (Refrigerant Contaminant Control); Co-Sponsors: TC 3.2 (Refrigerant System Chemistry); Estimated Duration: 9 months; Estimated Cost to ASHRAE: \$120,000; Status: **Conditionally Accepted**. Work with Research Liaison (RL) to clear RAC's conditions so project can bid.
- **1746-TRP**, *Validation of RP-1455 Advanced Control Sequences for HVAC Systems – Air Distribution and Terminal Systems*; Responsible Committee: **TC 1.4** (Control Theory and Application); Co-Sponsors: None; Co-funding: None; Estimated Duration: 36 months; Estimated Cost to ASHRAE: \$200,000; Status: **Work with RL to finalize Technical Contact person for RFP questions from potential bidders**.
- **1747-TRP**, *“Implementation of RP-1547 CO₂-based Demand Controlled Ventilation for Multiple Zone HVAC Systems in Direct Digital Control Systems,”* Responsible Committee: **TC 4.3** (Ventilation Requirements and Infiltration); Co-Sponsors: TC 1.4 (Control Theory and Application); Estimated Duration: 18 months; Estimated Cost to ASHRAE: \$170,000; Status: **Ready to Bid**

POTENTIAL PROJECTS FOR BID IN FALL 2015

A large portion of the following five tentative research projects that have been approved for bid are expected to be released for bid next fall:

Approved and Conditionally Approved Work Statements Available for Possible Bid in fall 2015

- **1649-TRP-C**, *IAQ and Energy Implications of High Efficiency Filters in Residential Buildings*; Responsible Committee: **TC 2.4** (Particulate Air Contaminants and Particulate Contaminant Removal Equipment); Co-Sponsors: None; Estimated Duration: 24 months; Estimated Cost to ASHRAE: \$200,000; Status: **Conditionally Accepted**. Work with Research Liaison (RL) to clear RAC's conditions so project can bid.
- **1650-TRP-C**, *Training Requirements for Sustainable High Performance Building Operations*; Responsible Committee: **TC 7.3** (Operation and Maintenance Management); Co-Sponsors: TC 7.6 (Building Energy Performance), TC 7.8 (Owning and Operating Costs); Estimated Duration: 18 months; Estimated Cost to ASHRAE: \$68,000; Status: **Conditionally Accepted**. Work with Research Liaison (RL) to clear RAC's conditions so project can bid.
- **1710-TRP-C**, *Effects of Dynamic Shading Devices on Daylighting and Energy Performance of Perimeter Zones*; Responsible Committee: **TC 4.5** (Fenestration); Co-Sponsors: None; Estimated Duration: 18-24 months; Estimated Cost to ASHRAE: \$140,000; Status: **Conditionally Accepted**. Work with Research Liaison (RL) to clear RAC's conditions so project can bid.
- **1742-TRP-C**, *Update to Measurements of Office Equipment Heat Gain Data*; Responsible Committee: **TC 4.1** (Load Calculation Data and Procedures); Co-Sponsors: None; Estimated Duration: 18 months; Estimated Cost to ASHRAE: \$95,000; Status: **Conditionally Accepted**. Work with Research Liaison (RL) to clear RAC's conditions so project can bid.
- **1755-TRP-C**, *Impact of Gaseous Contamination and High Humidity on the Reliable Operation of Information Technology Equipment in Data Centers*; Responsible Committee: **TC 9.9** (Mission Critical Facilities, Data Centers, Technology Spaces, and Electronic Equipment); Co-Sponsors: TC 2.3 (Gaseous Air Contaminants and Gas Contaminant Removal Equipment); Estimated Duration: 24 months; Estimated Cost to ASHRAE: \$250,000; Status: **Conditionally Accepted**. Work with Research Liaison (RL) to clear RAC's conditions so project can bid.

WORK STATEMENTS REVIEWED AND APPROVED OR RETURNED WITH COMMENTS

A total of eight work statements were submitted by the TCs for review at the RAC winter meeting. None were approved as-is, five were conditionally approved, two were returned with comments and one was rejected. See below for the status of each project after this review.

Approved Work Statements:

- **1649-TRP-C**, *IAQ and Energy Implications of High Efficiency Filters in Residential Buildings*; Responsible Committee: **TC 2.4** (Particulate Air Contaminates and Gas Contaminant Removal Equipment); Co-Sponsors: None; Estimated Duration: 24 months; Estimated Cost to ASHRAE: \$200,000; Status: **Conditionally Accepted**. Work with Research Liaison (RL) to clear RAC's conditions so project can bid.
- **1650-TRP-C**, *Training Requirements for Sustainable, High Performance Building Operations*; Responsible Committee: **TC 7.3** (Operation and Maintenance Management); Co-Sponsors: TC 7.6 (Building Energy Performance), TC 7.8 (Owning and Operating Costs); Estimated Duration: 18 months; Estimated Cost to ASHRAE: \$68,000; Status: **Conditionally Accepted**. Work with Research Liaison (RL) to clear RAC's conditions so project can bid.
- **1710-TRP-C**, *Effects of Dynamic Shading Devices on Daylighting and Energy Performance of Perimeter Zones*; Responsible Committee: **TC 4.5** (Fenestration); Co-Sponsors: None; Co-

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- funding: None; Estimated Duration: 18-24 months; Estimated Cost to ASHRAE: \$140,000; Status: **Conditionally Accepted**. Work with Research Liaison (RL) to clear RAC's conditions so project can bid.
- **1742-TRP-C**, *Update to Measurements of Office Equipment Heat Gain Data*; Responsible Committee: **TC 4.1** (Load Calculation Data and Procedures); Co-Sponsors: None; Estimated Duration: 18 months; Estimated Cost to ASHRAE: \$95,000; Status: **Conditionally Accepted**. Work with Research Liaison (RL) to clear RAC's conditions so project can bid.
 - **1755-TRP-C**, *Impact of Gaseous Contamination and High Humidity on the Reliable Operation of Information Technology Equipment in Data Centers*; Responsible Committee: **TC 9.9** (Mission Critical Facilities, Data Centers, Technology Spaces and electronic Equipment); Co-Sponsors: TC 2.3 (Gaseous Air Contaminants and Gas Contaminant Removal Equipment); Estimated Duration: 24 months; Estimated Cost to ASHRAE: \$250,000; Status: **Conditionally Accepted**. Work with Research Liaison (RL) to clear RAC's conditions so project can bid.

Work Statements Returned with Comments or Rejected:

- **1675-WS**, *Guidance for CFD Modeling of Data Centers*; Responsible Committee: **TC 4.10** (Indoor Environmental Modeling); Co-Sponsors: TC 9.9 (Mission Critical Facilities, Data Centers, Technology Spaces and Electronic Equipment); Estimated Duration: 24 months; Estimated Cost to ASHRAE: \$150,000; Status: **Returned with comments**. Work with Research Liaison (RL) to revise work statement before resubmitting it to RAC for review.
- **1729-WS**, *Experimental Verification of Cooling Load Calculations for Radiant Systems*; Responsible Committee: **TC 4.1** (Load Calculation Data and Procedures); Co-Sponsors: None; Estimated Duration: 24 months; Estimated Cost to ASHRAE: \$225,000; Status: **Returned with comments**. Work with Research Liaison (RL) to revise work statement before resubmitting it to RAC for review.
- **1749-WS**, *A BIM and Physics-based Modeling Enabled Platform for Monitoring and Visualizing High Performance Commercial Buildings*; Responsible Committee: **TC 1.5** (Computer Applications); Co-Sponsors: None; Estimated Duration: 24 months; Estimated Cost to ASHRAE: \$200,000; Status: **Rejected**. By rejecting this topic, RAC is strongly suggesting to the TC that this particular topic be dropped from the TC research plan based on the information provided.

A revised work statement for any of the returned projects listed above can be submitted to the MORTS on or before May 15, 2015 in order to be considered at RAC's Annual meeting in Atlanta next June. If a work statement can't be revised that quickly, the next scheduled deadline for RAC consideration is August 15, 2015.

WORK STATEMENTS PREVIOUSLY RETURNED TO TCs

TC/TGs should work with their Research Liaison to respond to written comments on the work statement provided by RAC via letter and revise the work statement appropriately. You can find a copy of the last draft submitted to RAC along with RAC's comments by clicking on the links in the Society's Research Implementation Plan posted on the "Research" page of the ASHRAE website. Please note that topics will be dropped from this plan if the work statement is not approved for bid after four years on the plan. The work statement forms that are now in use by RAC for Society year 2014-2015 can also be found on the "Research" page at www.ashrae.org/research

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REVIEW OF RESEARCH TOPIC ACCEPTANCE REQUESTS (RTARs)

RAC reviewed a total of four RTARs at its winter meeting and none were accepted as-is, but three were conditionally approved for inclusion in the Society's Research Implementation Plan and for further development into work statements. The committee also rejected one RTAR. The following is a listing of all RTARs reviewed:

Approved RTARs:

- **1745-RTAR**, *Evaluation of Climate Reanalysis Data for Use in ASHRAE Applications*; Responsible Committee: **TC 4.2** (Climatic Information); Co-Sponsors: None; Status: **Conditionally accepted**. Work with Research Liaison (RL) to clear RTAR approval conditions before proceeding with the development of the project's work statement.
- **1754-RTAR**, *Developing the Standard Test Method for Dynamic Characteristics of Vibration Isolators*; Responsible Committee: **TC 2.6** (Sound and Vibration Control); Co-Sponsors: None; Status: **Conditionally accepted**. Work with Research Liaison (RL) to clear RTAR approval conditions before proceeding with the development of the project's work statement.
- **1756-RTAR**, *Evaluation of Low-Cost Particle and CO₂ Sensors for Indoor Air Quality Monitoring in Smart Building Systems*; Responsible Committee: **TC 2.4** (Particulate Air Contaminants and Particulate Contaminant Removal Equipment); Co-Sponsors: TC 1.2 (Instruments and Measurements); Status: **Conditionally accepted**. Work with Research Liaison (RL) to clear RTAR approval conditions before proceeding with the development of the project's work statement.

RTARs Returned or Rejected with Comments:

- **1752-RTAR**, *Guidelines for Avoided Electric Generation/Source Energy Consumption due to Waste Heat Recovery and Heat Pump Technologies*; Responsible Committee: **TC 6.8** (Geothermal Heat Pump and Energy Recovery Applications); Co-Sponsors: None; Status: **Rejected**.

By rejecting this topic, RAC is strongly suggesting to the TC that this particular topic be dropped from the TC research plan based on the information provided.

The RTAR form that is now in use by RAC for Society year 2014-2015 can be found on the "Research" page of the ASHRAE website at www.ashrae.org/research

New or revised work statements and RTARs need to be received by the Manager of Research and Technical Services (MORTS), Mike Vaughn, morts@ashrae.net, no later than May 15, 2015 to be considered at RAC's Annual meeting in Atlanta next June. If RTARs can't be revised that quickly, the next deadline for RAC consideration of RTARs is August 15, 2015.

SOCIETY RESEARCH IMPLEMENTATION PLAN

The Society Research Implementation Plan is now being updated following the winter meeting of RAC. New RTARs will be added and tentative research project RFPs will be added or dropped depending on their bid status. This change to the way the implementation plan is updated necessitated that time limits be placed on how long a topic can remain on the plan without being approved for bid. The fall updates to the plan should be in place by **March 1, 2015** or sooner. Please review the latest draft of the Implementation Plan posted on the ASHRAE "Research" page to see if any topics your TC is sponsoring are in danger of being dropped from the plan.

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DEADLINES

The following deadlines apply for the next several months. Please recognize that they are not arbitrarily set, but are set to meet subsequent events. So if you miss them, your input may be delayed for six months or in some cases, for a year. All research submissions should be sent to the Manager of Research and Technical Services (MORTS), Mike Vaughn, (morts@ashrae.net).

- February 9, 2015** Submission deadline for program proposals (seminars and forums) for the 2015 annual meeting in Atlanta, GA. Conference Website: www.ashrae.org/atlanta/
- February 27, 2015** Conference and Technical Paper Final Accept/Reject Notifications for 2015 Annual meeting in Atlanta, GA sent by CEC
- March 23, 2015** Seminar, Forum, Workshop Accept/Reject Notifications for 2015 Annual meeting in Atlanta, GA sent by CEC
- March 29, 2015** TC/TG/TRG meeting minutes from the Chicago meeting are posted on TC website and distributed to membership by this date or sooner. – Please make a special effort to meet this deadline. We have received complaints that many TC minutes are released typically just prior to the next Society meeting. Members outside of your committee are interested in your committee’s work.
- April 19, 2015** Technical Paper initial drafts due for Orlando meeting.
- April 19, 2015** Completed TC/TG/TRG Meeting room request forms for 2015 Annual meeting are due to Judy Marshall (jmarshall@ashrae.org) at ASHRAE HQ. Subcommittee meeting rooms must be requested each meeting or they will be dropped automatically. Also, consider hosting some subcommittee meetings prior to the meeting via conference call and/or web meeting if quorum is a concern to assure continued progress on critical items.
- May 15, 2015** New or revised Work Statements and RTARs with TC vote are due to MORTS for RAC consideration at the 2015 annual RAC meeting.
- May 15, 2015** Bids are due for all TRPs released for bid in spring 2015.
- May 23, 2015** TC/TG/TRG meeting agenda for the Atlanta meeting are posted on TC website and distributed to membership. Please make a special effort to meet this deadline. We have received complaints that many TC agendas are released just prior to the TC’s meeting.
- June 2, 2015** Website opens for Seminar and Forum Proposals for Orlando meeting.
- June 2, 2015** All PowerPoint presentations for the Atlanta meeting must be uploaded to ASHRAE website by this date for review.
- June 30th, 2015
Midnight** Contractor recommendations are due to MORTS for all TRPs bid in spring 2015. Place the Proposal Evaluation Summary sheet in MORTS lockbox outside ASHRAE Headquarters Room in Atlanta.

OTHER NEWS

1. 14-15 Rosters Access & Distribution

Remember, the current 2014-2015 roster for your TC, TG or MTG is in effect until after the June meeting this year. By now, each TC, TG and MTG chair should have received a PDF & MS-Excel file of their 2014-2015 roster from their Section Head for distribution to the committee. In addition, each member can view all of the rosters of their committees on the ASHRAE Website by logging into the member's only section at <http://ASHRAE.org/MyActiveCommittees>. Click on the "blue" roster text at the left hand side of a committee to reveal the roster with linked contact information.

2. New TAC Presentation template for TC members to use with local Chapter

The new presentation template 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 now on the Technical Committee page of the ASHRAE website for download - <http://www.ashrae.org/tcs>

3. Employment Discipline added to ASHRAE BIO Online Input Form

A new input field titled Employment Discipline has been added to the ASHRAE online member (BIO) graphical input form and TAC would like all TC members to self-declare their employment discipline prior to the Winter meeting in Chicago by going to the Members Only section (<https://eweb.ashrae.org/eweb/DynamicPage.aspx?Site=ASHRAE&WebKey=8396a37a-9fc2-4f50-9332-5eebebe73494>) and enter their employment discipline information. The link should take you directly to the screen, which is located under demographics.

You will need your login and password to enter. Employment Discipline is located in the third section.

Employment Discipline	
category:	Government and Organizations
discipline:	Not-for-Profit Organization (USGBC, Habitat, etc.)

Once you have made the necessary updates, save the changes and logout.

Employment Disciplines:

Academic

- Academic - Professor/Staff
- Academic – Student

Government and Organizations

- Government - Federal (e.g., DOE, EPA, USDA)
- Government - National Lab (e.g., ORNL, NIST)
- Government - Local (e.g., city or state governments)
- Not-for-Profit Organization (USGBC, Habitat for Humanity, etc.)
- Trade Association (ACCA, SMACNA, etc.)

Building Industry

- Architect
- Building Owner / Management Firm
- Consultant
- Contractor
- Designer
- Facilities Manager/Operator

Manufacturing Industry
Manufacturer
Manufacturer
Manufacturer – Sales
Manufacturer’s Representative

Other
Model Code Organization
Retired
Utility
Other

Thus far, approximately 32% of TC members have declared their discipline.

4. Does your TC Have an Idea for a New ASHRAE Learning Institute (ALI) course?

The Professional Development Committee (PDC) is seeking ideas for new ASHRAE Learning Institute (ALI) courses. The need is for practical courses of broad interest, ranging from face-to-face seminars, short courses, 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 from new design guides.

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

Please submit your new course ideas to Karen Murray kmurray@ashrae.org (ASHRAE staff) or Darin Nutter PDCchair@ashrae.net (PDC chair).

5. New Presentation Developed on TCs and ASHRAE Code Interactions

Model codes (codes that are intended to be used as a model for jurisdictions to adopt at the state and local level) are being revised at a fairly rapid rate. ASHRAE Staff has been interacting with some TCs to ensure that model codes do not prevent sound engineering practice in the HVAC&R world. ASHRAE has a path for establishing official ASHRAE positions on proposals, and a mechanism to submit proposals and comments to model code organizations. If approved in accordance with ASHRAE procedures, ASHRAE Staff will represent positions of the Society in the model code development process. Many TCs are unaware that such a mechanism exists, and a new presentation has been developed for posting on the TC page of the ASHRAE website www.ashrae.org/tcs intended to provide some additional information on how TCs 1) can help ASHRAE write more enforceable documents/standards, and 2) can provide input to the code development process through ASHRAE.

6. 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

7. E&P Beta Test #7 TC meetings held in Chicago

The 7th beta test of Electronic and Physical (E&P) meetings, which allows some TC members to participate in the TC meeting from a remote location electronically, occurred in Chicago and the following nine TCs participated in this test: TC 1.5, TC 2.2, TC 7.9, TC 4.2 (RP-1561 PMS & RP-

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1699 PMS), TC 6.8, TC 8.4, TC 8.8, and TC 9.2. Those TCs interested in possibly having E&P capability for their next TC meeting in Atlanta should contact Mike Vaughn (MORTS@ashrae.net)

8. Upcoming TC Award Nomination Submission Deadlines

2015-2016 Hightower Award Nomination Process and Deadline

Nominations for the 2015-2016 George B. Hightower Technical Achievement Award are due to you Section Head by **September 1, 2015**. 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 and Forms...” heading: <http://www.ashrae.org/tcs>

2015-2016 Service to ASHRAE Research Award Nomination Process and Deadline

Nominations for the 2015-2016 Service to ASHRAE Research Award for TC volunteer efforts in research are due to RAC research liaison by **September 1, 2015**. 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>

9. CEC Seeking Track Suggestion for 2016 Annual Meeting in St. Louis & Other Program Information

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, the CEC seeks ideas for tracks for the St. Louis 2016 meeting next year 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)

TC Volunteers needed to help improve the ASHRAE technical program for 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.

Upcoming Program Dates & Orlando Program Tracks:

Atlanta Meeting - June 27 – July 1, 2015

- Conference Paper accept/reject notifications sent January 30, 2015
- Seminar, Forum and Workshop Proposals Due on February 9, 2015
- Revised Conference Papers/Final Technical Papers due February 13, 2015
- Conference and Technical Paper Final Accept/Reject Notifications sent Feb. 27, 2015
- Seminar, Forum, Workshop Accept/Reject Notifications sent March 23, 2015
- All PPTs Due Online by June 5, 2015
- Final Day for Commercialism Revision Upload prior to on-site by June 17, 2015
- Speaker's Lounge Opens on June 27, 2015

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- Conference Website: <http://www.ashrae.org/atlanta/>

Seminar and Forum proposals for Atlanta are due by Monday, February 9th, 2015. Please visit the following site for more information and to submit your proposal:

www.ashrae.org/atlanta

Orlando Meeting - January 23 - 27, 2016

- Conference Paper abstracts due on March 23, 2015
- Conference Paper Abstract Accept/Reject Notifications sent April 6, 2015
- Technical papers due by April 20, 2015
- Website Opens for Seminar, Forum and Workshop Proposals on June 4, 2015
- Final Conference Papers Submitted for Review by July 6, 2015
- Conference Paper accept/reject notifications sent August 3, 2015
- Seminar, Forum and Workshop Proposals Due on August 10, 2015
- Revised Conference Papers/Final Technical Papers Due on August 21, 2015
- Conference and Technical Paper Final Accept/Reject Notifications sent August 28, 2015
- Seminar, Forum, Workshop Accept/Reject Notifications sent September 11, 2015
- Conference Website: <http://www.ashrae.org/orlando/>

Program Focus at Orlando Winter Conference

- **Track 1: Systems and Equipment**

Selection of equipment and systems is paramount to HVAC&R design. Papers and programs in this track will assist designers, engineers, and operators in the design, selection, and operation of HVAC&R systems and equipment.

Track chair: Gary C. Debes - gcdebes@verizon.net

- **Track 2: Fundamentals and Applications**

Fundamentals are the foundation for understanding applications in engineering. Key components of ASHRAE fundamentals include thermodynamics, psychrometrics, fluid and mass flow, IAQ, and building envelope. This track provides opportunities for papers and presentations of varying levels across a large topic base. Concepts, design elements and shared experiences for theoretical and applied concepts of HVAC&R design are included.

Track chair: Cynthia Moreno - cindym@tmmechanical.com

- **Track 3: Design Build**

Joining the contractor and the designer into the same team, the design-build method of project delivery is increasing in percentage of projects awarded in the US. This track explores the challenges and benefits of D-B project delivery. Highlight successful projects; discuss contracts; review management responsibilities; offer alternative design and construction processes. These topics and more will be included.

Track chair: James Liston - jfliston@verizon.net

- **Track 4: International Design**

Design for various environmental elements, geography and culture demand that new and innovative strategies be developed. As an international organization, ASHRAE strives to meet the needs of a global membership. HVAC&R systems vary globally and this track provides an opportunity to share innovative and necessary design elements that can be shared internationally.

Track chair: Leon Shapiro - leoneshapiro@gmail.com

- **Track 5: Standards, Guidelines and Codes**

ASHRAE is known for its standards and design guidelines – and they are constantly evolving with the intent on improving the built environment and its systems. Designers, Contractors, Architects and Owners must be able to keep up with the continuing changes in the current cycle but to also be prepared for the future changes. In addition, there is a large interaction of ASHRAE with the code authorities and government to incorporate these standards and guidelines. The series of sessions in this track highlight the changes to the standards and guidelines, their projected path and optimum design techniques to meet or exceed the standards.

Track chair: Michael Collarin - Michael.Collarin@parsons.com

- **Track 6: Cutting-Edge Technologies**

As energy codes become increasing more stringent, we are challenged to find creative ways to improve efficiencies in the effort to achieve net zero buildings. This track will include the most recent advances in HVAC&R system design, equipment, and construction techniques. Programs included will focus on efficiency, responsible use of resources and energy recovery.

Track chair: Ann Peratt - agregg.ksu@gmail.com

- **Track 7: The Great Debate**

Engineers commonly weigh multiple solutions to find the best match for a certain project. Centralized or Decentralized heating and cooling? Chemical or non-chemical water treatment? These sessions and papers will present divergent methods for accomplishing the same task. Hear all sides of the debate and decide for yourself.

Track chair: Chuck Curlin - ccurlin@shultzeg.com

- **Track 8: Modern Residential Systems**

Engineering for residential HVAC and plumbing systems and equipment used to be referred to as catalog engineering: for a two bedroom house choose one from Column A; for a three bedroom house choose one from Column B. Recent years have seen a boom in energy efficient solutions for the savvy, fiscally-conscience home owner. From glazing to water heating to lighting, this track will provide you with the latest advances for the residential market.

Track chair: Rocky Alazazi - mralazazi@yahoo.com

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

10. Upcoming Webcasts, Workshops and Conferences:

2015

- **2015 HVACR & Mechanical Conference for Education Professionals** – March 9 to 11 – Baltimore, Maryland – Contact: <http://careersinhvacr.org/site/306/HVACR-Mechanical-Conference>

The Research and Technical Activities Report – Winter Meetings – 2015

- **2015 ASHRAE Webcast – New Tomorrows for Today’s Buildings: Existing Building Commissioning** – April 23, 1 - 4 pm EDT – Contact: <https://www.ashrae.org/membership--conferences/webcasts> - Contact:
- **Advanced HVAC and Natural Gas Technologies** - May 6 – 9, 2015 - Radisson Blu Hotel, Riga, LATVIA – Contact: <http://www.rtu.lv/en/>
- **2015 International Conference on Energy and Environment in Ships** - May 22 – 24, 2015 - Athens, Greece – Contact: <https://www.ashrae.org/membership--conferences/conferences/2015-international-conference-on-energy-and-environment-in-ships>
- **ISHVAC-COBEE 2015: 9th International Symposium on Heating, Ventilation and Air Conditioning (ISHVAC) and 3rd Conference on Building Energy and Environment (COBEE)** - July 12 – 15, 2015 - Tianjin, CHINA – Contact: <http://www.cobee.org/>
- **ICR2015 (24th IIR International Congress of Refrigeration)** - August 16 – 22, 2015 - Yokohama, JAPAN – Contact: <http://www.icr2015.org/index.html>
- **Cold Climate 2015** - October 20 – 23, 2015 - Dalian, CHINA – Contact: <http://www.coldclimate2015.org/>
- **11th International Conference on Industrial Ventilation** - October 26 – 28, 2015 - Shanghai, CHINA – Contact: <http://www.ventilation2015.org/>
- **IBPSA 2015 (14th International Conference of the International Building Simulation Conference)** – December 7 – 9, 2015 - Hyderabad, INDIA – Contact: <http://www.bs2015.in/>

2016

- **International Air-Conditioning, Heating, Refrigerating Exposition (AHR Expo) – 2016 - January 25 – 27, 2016 - Orlando, FL** – Contact: <http://www.ahrexpo.com/>
- **CLIMA 2016** - May 22 – 25, 2016 - Aalborg, DENMARK – Contact: <http://www.clima2016.org/welcome.aspx>
- **IAQVEC 2016 (9th International Conference on Indoor Air Quality Ventilation & Energy Conservation in Buildings)** – Oct. 17 – 19, 2016 - Seoul, SOUTH KOREA – Contact: <http://iaqvec2016.org/>

Please let me know if I can be of any other assistance.

Sincerely,
Mike Vaughn