

**AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING  
ENGINEERS, INC.  
1791 Tullie Circle, N.E./Atlanta, GA 30329  
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**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 2.5 DATE 19 June 2013

TC/TG/MTG/TRG TITLE Global Climate Change  
DATE OF MEETING 29 January 2013 LOCATION Dallas, TX

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Mr. Don Brundage, PE	7/01/2011	Mr. Denis F. Clodic, PhD	07/01/2011	Matthew T. Ritter (CM)
Mr. William F. McQuade, PE	07/01/2012	Dr. Anthony Arguez, I	07/01/2011	Cynthia Gage (CM)
Mr. David S. Godwin, PE	07/01/2012	Mr. Larry Butz	07/01/2011	Joel Hall
Mr. William F. Walter	07/01/2011			Larry Burns
Mr. Steven H. Bernhardt, PhD	07/01/2010			Jibo Sanyal
Mr. Thomas M. Lawrence, PhD	07/01/2009			G D Mathur (CM)
Mr. Bruce B. Lindsay, PE	07/01/2012			Jun Wang
Mr. James G. Crawford	09/01/2011			

**DISTRIBUTION**

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

TAC Section Head:	J. Thomas Sobieski
TAC Chair:	William F. McQuade, PE
All Committee Liaisons As Shown On TC/TG/MTG/TRG Rosters:	
Manager Of Standards Manager Of Research & Technical Services	Stephanie Reiniche Mike Vaughn

**DRAFT Minutes**  
Technical Committee TC 2.5 (*Global Climate Change*)<sup>1</sup>  
Dallas, Texas  
Tuesday, 29 January 2013, 1:30 - 3:30 pm  
Sheraton Dallas – City View 7 (4<sup>th</sup> floor)

**1. Call to Order (Don Brundage)**

1.1. Introduction of Members and Guests and Determination of Quorum:

1.1.1. Members present (08) were: Don Brundage, Bill Walter (NQ), Steve Bernhardt, Tom Lawrence, Bill McQuade, David Godwin, Bruce Lindsay, and Jim Crawford

1.1.2. Members absent (03) were: Denis Clodic (NQ), Larry Butz, and Dr. Anthony Arguez.

1.1.3. Corresponding members (03) present: Cynthia Gage, Matthew Ritter, G D Mathur

1.1.4. Guests (04): Joel Hall, Larry Burns, Jibo Sanyal, Jun Wang

1.2. The agenda for the meeting was presented by Chair. There were no additions, corrections or objections so it was approved as circulated prior to the meeting.

1.3. 11 total members, 1 non-quorum absent, 10 members for quorum purposes so quorum was 6. Eight were present, so a quorum was achieved.

1.4. Approval of the Minutes

1.4.1. The minutes from the January 22, 2012 were presented to the committee. A motion to approve the minutes was made by Mr. Bruce Lindsay and seconded by Mr. Bill Walter. The minutes were unanimously approved by a vote of 6-0-0.

1.4.2. The minutes from the June 26, 2012 were also presented to the committee. A motion to approve the minutes was made by Mr. Bruce Lindsay and seconded by Mr. Bill Walter. The motion was approved by a vote of 5-0-1. The abstention was from Mr. David S. Godwin.

**2. CHAIRMAN'S ANNOUNCEMENTS [Don Brundage]**

**2.1. Report from TC/TG Chair's Breakfast**

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<sup>1</sup> SCOPE: TC 2.5 is concerned with the impact that the activities of the HVAC&R industry may have on the global environment, including greenhouse warming and ozone depletion. This Task Group coordinates activities and planning for the Society to address these issues. This includes identifying factors within the scope of the HVAC industry, which may impact, favorably and unfavorably, the global environment and the role that ASHRAE is serving and could serve.

- 2.1.1. **2012-2013 Hightower Award Recipient is Lucas Hyman, (Nominated by TC 1.10):** Mr. Hyman's contributions to ASHRAE technical committees and especially to TC 1.10 in the last four years have been exemplary and make him a well deserving recipient of the George B. Hightower Award.
- 2.1.2. **YEA/TC Mixer: There was an YEA/TC Mixer Sunday Afternoon in Dallas for the purpose of promoting involvement with TC/TG/TRG/MTGs as a way of making a significant contribution to the Society.** Food and beverages were available at this casual gathering as well as ice-breaker games to help get these young engineers of the Society talking with TC representatives and Fellows that attended the event.
- 2.1.3. **Meeting Procedures updated in TC MOP.:** Meetings of the Manual of Procedures (MOP) for ASHRAE technical committees (TCs/TGs/MTGs/TRGs) has been revised to clarify that attendance at technical committee meetings and subcommittee meetings must be open, except as allowed for by executive session procedures, and that an interim meeting is allowed with proper notification. See the following link for the latest version of the TC MOP:  
<https://www.ashrae.org/standards-research--technology/technical-committees>
- 2.1.4. **Request for each technical committee to review ASHRAE Code of Ethics:** ASHRAE leadership wants each Technical Committee to review the ASHRAE Code of Ethics with its membership. The following link for the latest version of the ASHRAE Code of Ethics:  
<https://www.ashrae.org/about-ashrae/>
- 2.1.5. **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. TAC hopes to roll-out this new presentation to the TCs in Dallas at the TC Chairs' Training Workshop briefly. The template will then be posted to the Technical Committee page of the ASHRAE website for download.
- 2.1.6. **New MTGs that have been formed:** TAC approved the formation of the following new Multidisciplinary Task Group (MTG) at their fall meeting:
- 2.1.6.a. **MTG.CCDG – Cold Climate Design Guide Development:** Scope MTG.CCDG will coordinate TC/TG/TRG technical activities to help support the technical basis, development, and publication of a "Cold Climate Design Guide" in conjunction with REHVA and SCANVAC. Responsibilities include the development of supporting research, presentations, and content for the "Cold Climate Design Guide" special publication. The chair and vice chair of the MTG are Frank Mills and Bjarne Olesen, respectively. For more information on this MTG and the six other MTGs, please go to the MTG section on the following web page: <http://www.ashrae.org/standards-research--technology/technical-committees> .
- 2.1.7. **CEC is looking for TC Volunteers willing to Support Content Development and Quality Control for Society Technical Program at Society Meetings :** After each Society meeting the Chair will provide the Section 2 Head with 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.
- 2.1.8. **CEC proposed or recently implemented technical program changes:**
- 2.1.8.a. TC Program Subcommittee Chair Training in Dallas Tuesday, 1/29, 11:15 a.m. – Noon, State Room 3, (Third Floor) Sheraton Hotel convention center
- 2.1.8.b. Speaker Registration Fee: Beginning with the 2013 Winter Dallas Conference and moving forward for future conferences, a speaker registration fee is being implemented as a part of

an overall Society evaluation of registration fees for the purpose of lowering registration fees for attendees at the winter and Annual Conferences. For the 2013 Winter Dallas Conference the following Speaker registration fees and policies will apply:\$95 Member/Non-member Speaker Registration Fee

2.1.8.c.Program Focus on Research Going Forward at Annual Meeting: The Denver Conference will have a special emphasis on research. Some 100 papers have been received for the conference, and seminar proposals on innovations in HVAC&R research are encouraged. Submit by Feb. 11 online at [www.ashrae.org/denver](http://www.ashrae.org/denver). Up-to 25% of the Denver program will be allocated to this effort.

2.1.9.**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](mailto:mvaughn@ashrae.org) or [MORTS@ashrae.net](mailto:MORTS@ashrae.net)

#### 2.1.10. **Upcoming Program Dates**

##### **Denver Meeting - June 22-26, 2013**

- Conference Site Live: January 7, 2013
- Denver Seminar and Forum Session Proposals are due February 11, 2013
- Technical Papers Final Review Due – February 15, 2013
- Acceptance/Reject Notifications issued for Conference papers, Seminars and Forums – March 25, 2013
- All presentation files (PPT) due online – June 3, 2013
- Conference Website: <http://www.ashrae.org/denver/>

##### **New York Meeting – January 18-22, 2014**

- Conference Paper Abstracts due March 15, 2013
- Acceptance/Reject Notifications issued for Conference papers abstracts – April 5, 2013
- Technical Papers Due for Review – April 19, 2013
- Conference Site Live: June 3, 2013
- Web Site Opens for Seminar and Forum proposals – June 3, 2013
- Final Conference Papers Submitted for Review – July 3, 2013
- Technical Papers final review due August 12, 2013
- New York Seminar and Forum Session Proposals are due August 12, 2013
- All presentation files (PPT) due online – January 3, 2013
- Conference Website: <http://www.ashrae.org/newyork/>

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 Dallas and annual and winter conferences beyond as well as topics for specialty conferences from TC members.

### **3. Roster Review:**

- 3.1. Committee Positions for July 1, 2013 to June 30, 2017 term
- 3.2. Voting Status – Don Brundage and Thomas Lawrence will roll off as of July 1, 2013. Discussion of new voting members, changes of status. Denis Clodic scheduled to become new chair.

### **4. Subcommittee Reports**

#### **4.1. Climate Change Position Document Subcommittee**

- 4.1.1. After it was returned for reformatting after our approval vote in San Antonio, vote for approval of reformatted version.
- 4.1.2. Discussion of schedule for full update of Climate Change Position Document, and possible actions. Options are to request an update of the document, and the establishment of a Position Document Review Committee under Tech Council, or do nothing at this time. (As a TC, we do not do a complete update of a Position Document, but we can suggest a roster to Tech Council.)
- 4.1.3. Climate Change Position Document: Data updates Tables, set up separate committee, addition of abstract, format changes
- 4.1.4. Godwin makes motion, Second Lindsay, Recommendation to approve and go to Tech council. Approved 6-0-0 No corrections or objections. Note: six members were present at the time of the vote, due to two members needing to leave due to other ASHRAE responsibilities.

#### **4.2. Sub Committee for Revision of Current TC 2.5 FAQ (Mack McFarland's Suggestion):**

- 4.2.1. In response to Mack's request to update the FAQ, there have been considerable suggestions. The committee suggested that short answer should be devoid of reasoning why. Possibly a chart. Long answer can have background.

**AI #1 Dave Godwin will take the lead and Don Brundage will send him background detail. A revised proposal will be circulated among the committee members within the next few weeks for comment.**

#### **4.3. Handbook Chapter Subcommittee:**

- 4.3.1. A brain storming discussion covered topics including TEWI, LCCP, GWP, Direct and Indirect effects, Leakage, ODP, etc. Don Brundage took the action item to contact the Handbook Committee and determine what our requirements are for getting
- 4.3.2. A Handbook Subcommittee was established. Matt Ritter will Chair and members will include Steve Bernhart, Cynthia Gage, Bill McQuade, Gibo Sanyal, and Jim Crawford. Some preliminary work has been completed. An outline was developed in January of 2012 by Jim Crawford and Matt Ritter has developed some preliminary updates. Matt will schedule a call to review the proposed Chapter revisions in February with a goal of getting a revised Chapter Outline completed by the March 1<sup>st</sup> deadline and a proposed draft of the completed chapter reviewed and approved by the larger committee before the Summer meeting in Denver.

**AI #2 Don will check with Handbook and determine what the timing is for deadlines, etc.**

**AI#3 Matt Ritter to take the lead with a Handbook Subcommittee and schedule a meeting in February with the goal of completing an outline for the March 1<sup>st</sup>**

**deadline and a completed draft of the chapter to be reviewed and approved by the larger committee prior to the Annual Meeting in Denver.**

#### 4.4. Website:

4.4.1. We are currently without a Webmaster. Don Brundage has taken on the task of revising the Website and will rely on Mike Vaughn to support his efforts.

**AI #4 Website: Don Brundage is taking on revising Website asking Mike Vaghun**

#### 4.5. Program Subcommittee:

4.5.1. Update on Seminar 23: At this meeting TC 2.5 sponsored a seminar (23) titled *Future of Refrigerants*. Participants counted an audience of around 130 people. By all reports the Seminar went very well and Chariman Brundage thanked all for their participation.

4.5.2. Program for Denver: At the Denver Conference there will be a Program focus on Focus on Technical Papers. A brainstorming session ensued and the following topics were discussed:

- CCAC- Explain what it is and about (New York)
- F-Gas Regulation—Overview of final Regulation (New York)
- Obama administration efforts for Climate Change in Second Term (TDB)

While nothing is planned for Denver, we should be ready to submit an abstract for Winter meeting at the end of the Annual meeting.

### 5. Overview of MOP in Geneva (Steve Bernhart)

5.1. Steve Bernhart gave an interesting and informative overview of the recent Montreal Protocol MOP that occurred in Geneva, Switzerland this past fall. His report contained the following highlights among others:

- The MP has reported 98% reduction in ODP emission
- The current focus of the talks is about climate change over Ozone. As a result there is considerable overlap with Climate which generates a lot of discussion regarding scope and authority.
- We are in a significant transition year as much of the leadership is leaving UNEP, EXCOMM, TEAP. The concern will be if the new generation of leadership will negatively affect the cooperation and constructive atmosphere of the past.
- Recent meetings have shown a Polarization of major Refrigerant producers and users. A general lack of compromise between China, India, Brazil and those countries for the North American Amendment.
- Much of the substantive issues were push to Bangkok
- The amendment was successfully blocked again. South Africa however has signed on which is a positive development.

### 6. LIAISON REPORTS : No liaisons present

### 7. OTHER BUSINESS:

7.1. Roster updates: As previously mentioned, in item 3.2, Denis Clodic was scheduled to move from vice chair to chair in 2013-2014. However, Mr. Clodic has told Mr. Brundage that he would not be able to take on that responsibility. After discussion within the group, Mr. Brundage said that he would propose

William McQuade as the the new chair, and Matthew Ritter as the new vice chair. Mr. Brundage will propose himself as secretary and webmaster for the 2013-2014 year.

8. **ADJOURN:** Meeting adjourned at 3:15pm