

**TECHNICAL COMMITTEE 2.8 – Meeting Notes: Annual Conference – Dallas TX  
MEETING MINUTES – January 27, 2013**

AMERICAN SOCIETY OF HEATING, REFRIGERATION AND  
AIR-CONDITIONING ENGINEERS, INC.  
**1791 Tullie Circle, NE / Atlanta, GA 30329  
404-636-8400**

**TC/TG/TRG Minutes Cover Sheet**

**TC/TG/TRG No.** TC 2.8 **Date** January 27, 2013  
**TC/TG/TRG Title** Building's Environmental Impact and Sustainability  
**Date Of Meeting** January 27, 2013 **Location** Hotel Sheraton, Dallas, TX

<b>Members Present</b>	<b>Year Apptd</b>	<b>Members Absent</b>	<b>Year Apptd</b>	<b>Ex-Officio Members &amp; Addit'l Attendance</b>
Mr Dunstan L Macauley, III	2011	Mr Buss Andrew Price	2009	Jim Crawford
Mr Ashish Rakheja	2011	Dr Raymond Man-Hung Yau, PhD	2009	NG Yong Kong
Mr J Kevin Cross	2010	Dr Malcolm Lewis, PE	2009	Gerald Kettler
Ms Janice K Means, PE	2010	Mr Francis A Mills	2011	Svcin Morner
Michael P Deru, PhD	2009	Mr Harry J Enck	2008	Regan Glandon
Mr Donald M Brundage, PE	2009	Mr David L Grumman, P.E.	2011	Ray Sinclair
Mr E Mitchell Swann, PE	2008	Mrs Diotima A Von Kempfski	2011	Lorraine Ross
Mr John M Swift, Jr	2011	Mr Thomas J Kelly	2010	
Dr Thomas M Lawrence, PhD	2011	Dr Vikas Patnaik	2011	
Mr William L Stanton Stafford, PE	2011			
Ms Joy Eileen Altwies	2009			
Mr Thomas E Cappellin, PE	2010			
Mr David E Ellis, PE	2011			
Dr Paul A Torcellini	2009			
Frank Mills	2011			
Mr Abdel Kader H Darwich, I	2010			
Mr Douglas David Fick	2004			
Mr Kevin R Brown	2011			
Mr. Jaap J Hogeling	2009			

**Distribution:**

**All members of the TC/TG/TRG**

TAC Chair	Charles Culp
TAC Section Head	Thomas Sobieski
Special Publications Liaison	John A. Clark
Standards Liaison	Hoy Bohanon
Handbook Liaison	Jeff Traylor
RAC Research Liaison	William McCoy
CTTC Liaison	Jean-Gabriel Joannette
ALI Liaison	John Nix
Staff Liaison (Research)	Michael Vaughn
Staff Liaison (Standards)	Stephanie Reinche

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MEETING MINUTES – January 27, 2013**

**Note:** *These draft minutes have not been approved and are not the official, approved record until approved by this committee.*

**TC/TG/TRG Minutes Cover Sheet**

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TC/TG/TRG Title: Building's Environmental Impact and Sustainability

Date of Meeting: January 27, 2013 LOCATION: Dallas Ballroom (D2), Hotel Sheraton - Dallas, TX

<b>TC/TG/TRG Meeting Schedule</b>				
<b>Location – Past 12 months</b>		<b>Date</b>	<b>Location - planned next 12 months</b>	
Chicago, IL		Jan 2012	Denver, CO	
San Antonio, TX		Jun 2012	New York	
Dallas, TX		Jan 2013		
<b>TC/TG/TRG Subcommittees</b>				
<b>Function</b>			<b>Chair</b>	
International Program Handbook Research Green Guide Existing Buildings			Ashish Rakheja, Frank Mills Kevin Brown Dave Grumman Joy Altweis Tom Lawrence Dunstan Macauley	
<b>Research Projects – Current</b>			<b>Monitoring</b>	<b>Report Mode</b>
<b>Project Title</b>	<b>Contractor</b>		<b>Comm. Chm.</b>	<b>At Meeting</b>
<b>Longrange Research Plan</b>				
<b>Rank</b>	<b>Title</b>	<b>W/S Written</b>	<b>Approved</b>	<b>To R &amp; T</b>
<b>Handbook Responsibilities</b>				
<b>Year &amp; Volume</b>	<b>Chapter Title</b>	<b>No.</b>	<b>Deadline</b>	<b>Handbook Subcom. Chair/Liaison</b>
2009 Fundamentals	Energy Resources	34		Brundage / Bansal
2009 Fundamentals	Sustainability	35		Grumman / Bansal
<b>Standards Activities - List and Describe Subjects</b>				
<b>Technical Papers from Sponsored Research - Title, when presented (past 3 yrs. present &amp; planned)</b>				

<b>Appendix – 3</b>
<b>TC/TC/TRG Sponsored Conference Papers - Title, when presented (Past 3 yrs. present &amp; planned)</b>
<b>Appendix – 4</b>
<b>TC/TG/TRG Sponsored Seminars - Title, when presented (Past 3 yrs. present &amp; planned)</b>
<b>Appendix – 5</b>
<b>TC/TG/TRG Sponsored Forums -Title, when presented (Past 3 yrs. present &amp; planned)</b>
<b>Appendix – 6</b>
<b>Journal Publications - Title, when published (past 3 yrs. present &amp; planned)</b>
Lawrence, T.M., J. Perry and P. Dempsey, 2010, "Making Every Drop Count: Retrofitting Condensate Collection on HVAC Air Handling Units", <i>ASHRAE Journal</i> 52(1):48-54.
Lawrence, T.M., and J. Perry. 2010, "The Collection of Cooling Coil Condensate in High-Performance Buildings", <i>High Performance Buildings</i> 3(4):56-61.
Lawrence, T.M., J. Perry and P. Dempsey, 2010, "Predicting Condensate from HVAC Air Handling Units", <i>ASHRAE Transactions</i> 116(2):3-15.
Lawrence, T.M., J. Perry and T. Alsen. 2012, "AHU Condensate Collection Economics", <i>ASHRAE Journal</i> 54(5):12-17.
Mills, F., T.M. Lawrence, A. Rakheja, R.M. Yau and A. Darwiche. 2012 "Green Building Practices Around the World". <i>ASHRAE Journal</i> 54(1):48-55.

**ASHRAE TC 2.8 : BUILDING'S ENVIRONMENTAL IMPACT AND SUSTAINABILITY**  
**Winter 2013 Meeting (Dallas)**

**1. Roll call and Introductions by John Swift**

- 1.1 Meeting called to Order w/ Quorum at 5:00
- 1.2 Roll Call
- 1.3 Introduction

**2. Accept Agenda/Approve Minutes of Chicago Meeting by John Swift**

Approval of Minutes:

- 2.1 Motion by Dunstan.
- 2.2 Seconded by Janice.
- 2.3 Minutes approved unanimously with no amendments (...-0-0).

**3. Announcements/Membership/Listserv by John Swift**

- 3.1 John acknowledged the contribution of Malcolm Lewis and paid tribute to him.

**4. Update from Section 2 by John Swift**

- 4.1 TC Training workshop was held in the morning
- 4.2 Roster will change in summer 2013 and information has to be given by Dunstan/Swift.
- 4.3 MOP for ASHRAE TC has been revised such that TC shall be open meetings.
- 4.4 Each TC Chair to review the Code of Ethics.
- 4.5 New TAC updated template now available
- 4.6 Draft 50% Refrigeration Guide now available. TC 2.8 to review and available thru listserv.
- 4.7 New Discipline category in ASHRAE bio.
- 4.8 Electronic Participation in each TC meeting is now promoted by ASHRAE. The Goal in Denver meeting will be that all TC should attempt the Electronic meeting.
- 4.9 Informed the members about deadline for Papers/Seminar/Forum for Dallas and New York meetings.
- 4.10 Next CLIMA Conference is in Prague and IAQ 2014 in Vancouver. Link available on ASHRAE website.
- 4.11 TC Master calendar is available for synchronizing with ASHRAE calendar
- 4.12 New MTG formed for Cold Climate Design guide chaired by Frank Mills.
- 4.13 Next summer meeting in Denver followed by Winter meeting in New York.
- 4.14 ASHRAE Wiki is now operational with nearly 7500 terminologies.

**5. Standards Sub-Committee Report**

- 5.1 SPC 191 (Proposed Standards for Water Efficiency in Buildings, Site & Mechanical Systems) Update by John Swift. The comments from public on first draft have been received and updated draft to be sent by April 2013.
- 5.2 Concern still remains on potential conflict between Standard 189.1, SPC 191 and IAPMO.
- 5.3 SPC 189.1 (Standard for the Design of High Performance Green Buildings except Low Rise residential Buildings) Update by Tom Lawrence.  
  
Tom encouraged audience to be part of the meeting.
- 5.4 Recent discussions on developing Standard 189.2 (For Residential development). Suggested Roster may come from TC 2.08
- 5.5 SPC 189.3 (Design, Construction and Operation of High Performance Green Healthcare Facilities) Update by Paul. Currently public review comments are being reviewed.
- 5.6 Doug Fick was the earlier representative and current representative not known.

**6. Standing Committee Liaison Report**

- 6.1 TAC
  - No Liaison present
  - Tom Sobieski is the Liaison
- 6.2 Special Publications
  - No Liaison Present
- 6.3 RAC
  - No Liaison present
  - David John is the new liaison

**7. Seminar Sub Committee Report by Kevin Brown**

- 7.1 TC 2.8 is participating at two programs at Dallas.
- 7.2 Dunstan informed that following changes have been done by Society in paper submission process:
  - 7.2.1 Denver Conference will be a research summit to solicit papers from researchers. Over 100 papers received already
  - 7.2.2 If a TC would like to sponsor a Conference session then CEC would encourage to manage the session throughout.
  - 7.2.3 Speaker review process has been implemented since Chicago meeting wherein for speakers with rating 3.5 or lower, they will be asked to undertake training on how to improve the quality of presentation.
  - 7.2.4 All complimentary registrations for speakers have been discontinued starting from Dallas.



- 7.3 Following New Programs have been suggested for future meetings:
  - 7.3.1 Forum on Changes to green guide (New York)
  - 7.3.2 Seminar on Greening Existing Buildings (Frank to propose the schedule)
  - 7.3.3 Look at CalGreen and similar codes that are being adopted by state/entities.
  - 7.3.4 Forum on Embedded Energy (Seattle)
  - 7.3.5 Application of alternative performance metrics to Green buildings
  - 7.3.6 Utilizing NREL personnel to discuss grid scale renewable (Colorado)
  - 7.3.7 Discussion about NREL Research building
  - 7.3.8 Discussion of NREL Design/Build experience

**8. Research Sub-committee Report by Joy Altwies**

- 8.1 RTAR 1627 Project at work statement stage. TC 2.8 members will get an email on approving the work station. Project Evaluation Sub-committee (PES) and Project Management Sub-committee (PMS) will be formed in case it is approved.
- 8.2 Potential three research topic ideas were discussed in meeting:
  - 8.2.1 Motivations to adopt/not adopt the ASHRAE Standards (AEDG)
  - 8.2.2 Comparison of LEED Water usage tool and actual usage.
  - 8.2.3 Performance of buildings designed as per Standard 189.
- 8.3 Research ideas were invited from the audience.

**9. Handbook Sub Committee Report by Doug**

- 9.1 Dave Grumman could not attend meeting due to health.
- 9.2 Doug informed that Janice has proposed MTG to bring consistency in various renewable energy sections.

**10. Green Guide Sub Committee Report by Tom Lawrence**

- 10.1 Work on Fourth version of Green Guide is on track and targeting Jan 2014 meeting release.
- 10.2 All members attended the sub-committee meeting will be invited to edit & review the first draft by March 2013.
- 10.3 At Denver meeting, revised document will be available for voting and sent to Steve Comstock.

**11. International Sub Committee by Ashish Rakheja**

- 11.1 Informed that Seminars planned in future on following:
- Voluntary efforts for Green Rating and Sustainable Practices around the world.
  - Learnings from Past.
  - Engineer's role in designing Sustainable master-planning of projects.
- 11.2 Article contributed by sub-committee in past edition of ASHRAE Journal.
- 11.3 Sub-committee looking at a new article for ASHRAE Journal on following topics
- Article on Sustainability Practices in Australasia.
  - Net Zero Energy Buildings in world
  - Green Building Ratings
  - Comparison of Commissioning Practices across World : (Authors : Mitchell Swan, Tom Lawrence, Yong Kong, Ashish Rakheja)
- 11.4 The sub-committee will provide comments on Green Guide from experts around the world and seek their inputs.
- 11.5 Upcoming Conference in Philippines with focus on Developing Economies focusing on Energy efficiency practices. Will be seeking case studies and articles to contribute to ASHRAE Journal/High performance Buildings magazine.
- 11.6 Upcoming Conference in February 2014 at Kuwait focusing on "Hot & Dry Climate". Will be looking at Design guide and articles

**12. Website Sub-Committee Report by Dunstan**

- 12.1 The TC website is up to date.
- 12.2 David Ellis will now be taking over.
- 12.3 Dunstan requested for content to be added to website.

**13. Existing Buildings Sub Committee Report by Dunstan**

Existing Building O&M Guidance Source Document mail from Costas was discussed. Adhoc committee David Ellis, Kevin Brown & Dunstan has been formed to decide the response.



**14. Related Activities Report**

14.1 LEED (USGBC – ASHRAE Interaction)

- No presence.
- Need to re-connect with USGBC.

14.2 Advanced Energy Design Guides by Paul Torcellini

- 50% series has been released.
- No new 50% AEDG is currently in pipeline but discussions are on for deciding further areas of work.

14.3 Building Performance Metric Steering Committee (MTG) by Paul Torcellini

New book has been released by MTG. This may be a reference for LEED M&V credits.

14.4 Database for Analyzing Sustainable and High Performance Buildings by Michael Deru

- A prototype for developing database is being coordinated by Bruce Hunn.
- Alpha version is going to be available shortly.

14.5 Inter Agency Sustainability Working Group by Kinga Porst

No discussions

14.6 Green Globes/GBI (Harvey J. Bryan/Coad)

No discussions

14.7 ASHRAE Climate Change Program

No discussions

14.8 Design towards NZEB Short Course (Frank Mills / Dunstan Macauley)

No discussions.

14.9 ASHRAE Building Energy Quotient by Paul Torcelini

- Has gone through first pilot
- A possible Forum may be developed for one of the future meetings on sharing Experience on Building Labeling program.

14.10 MTG on Green Life Cycle Analysis (Tom Lawrence)

- No discussions

14.11 Proposal Standard on Energy Modeling (Glaser)

- Being done by TC 2.09
- Formation of group has been done and they are meeting online

**15. New Business**

No New Business

**16. Adjourn**

16.1 Motion by Tom

16.2 Seconded by Abdel

16.3 Motion passed unanimously (10-0-0).

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**TC 2.8 Web Site**      [www.tc28.ashraetcs.org](http://www.tc28.ashraetcs.org)

**TC 2.8 E-mail List**

This list is only for communications related to ASHRAE TC 2.8 Building Environmental Impacts and Sustainability. Do not distribute messages of any commercial nature.

To subscribe or unsubscribe to the list, you can go to the TC 2.8 list web site: [http://lists.onebuilding.org / listinfo.cg / tc28-l-onebuilding.org](http://lists.onebuilding.org/listinfo.cg/tc28-l-onebuilding.org)

To send a message to all subscribers to the list, address your message to:

tc28-l@lists.onebuilding.org

*Note: ASHRAE does not operate this list. Please do not ask them for help.*