TC/TG/TRG Minutes Cover Sheet

TC/TG/TRG No.  TC 2.8  Date  June 24, 2012
TC/TG/TRG Title  Building’s Environmental Impact and Sustainability
Date Of Meeting  June 24, 2012  Location  Hotel Grand Hyatt, San Antonio, TX

<table>
<thead>
<tr>
<th>Members Present</th>
<th>Year Apptd</th>
<th>Members Absent</th>
<th>Year Apptd</th>
<th>Ex-Oficio Members &amp; Addit’l Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr Dunstan L Macauley, III</td>
<td>2011</td>
<td>Mr Buss Andrew Price</td>
<td>2009</td>
<td>Jim Crawford</td>
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<tr>
<td>Mr Ashish Rakheja</td>
<td>2011</td>
<td>Dr Raymond Man-Hung Yau, PhD</td>
<td>2009</td>
<td>Mark Harris</td>
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<td>Mr J Kevin Cross</td>
<td>2010</td>
<td>Dr Malcolm Lewis, PE</td>
<td>2009</td>
<td>NG Yong Kong</td>
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<td>Ms Janice K Means, PE</td>
<td>2010</td>
<td>Mr Francis A Mills</td>
<td>2011</td>
<td>Kinza Porst</td>
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<td>Michael P Deru, PhD</td>
<td>2009</td>
<td>Mr Harry J Enck</td>
<td>2008</td>
<td>Marshal Zabel</td>
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<td>Mr Donald M Brundage, PE</td>
<td>2009</td>
<td>Mr Kevin R Brown</td>
<td>2011</td>
<td>Pornsak Songakul</td>
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<td>Mr E Mitchell Swann, PE</td>
<td>2008</td>
<td>Mrs Diotima A Von Kempski</td>
<td>2011</td>
<td>Bill Coad</td>
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<td>Mr David L Grumman, P.E.</td>
<td>2011</td>
<td>Mr Abdel Kader H Darwiche</td>
<td>2010</td>
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<td>Mr John M Swift, Jr</td>
<td>2011</td>
<td>Mr Douglas David Fick</td>
<td>2004</td>
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<td>Dr Thomas M Lawrence, PhD</td>
<td>2011</td>
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<td>Mr Thomas J Kelly</td>
<td>2010</td>
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<td>Mr William L Stanton Stafford, PE</td>
<td>2011</td>
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<td>Ms Joy Eileen Altwies</td>
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<td>Mr Thomas E Cappellin, PE</td>
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<td>Mr David E Ellis, PE</td>
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<td>Dr Vikas Patnaik</td>
<td>2011</td>
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<tr>
<td>Dr Paul A Torcellini</td>
<td>2009</td>
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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

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

TC/TG/TRG No. TC 2.8 Date: June 24, 2011

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

Date of Meeting: June 24, 2011 LOCATION: Lone Star (D), Grand Hyatt - San Antonio, Texas

<table>
<thead>
<tr>
<th>TC/TG/TRG Meeting Schedule</th>
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<tbody>
<tr>
<td>Location – Past 12 months</td>
<td>Date</td>
</tr>
<tr>
<td>Las Vegas, NV</td>
<td>Jan 2011</td>
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<td>Albuquerque, NM</td>
<td>Jun 2010</td>
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<tr>
<td>Chicago, IL</td>
<td>Jan 2012</td>
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<td>San Antonio, TX</td>
<td>Jun 2012</td>
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<thead>
<tr>
<th>TC/TG/TRG Subcommittees</th>
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<tr>
<td>Function</td>
<td>Chair</td>
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<tr>
<td>International Program</td>
<td>Ashish Rakheja, Frank Mills</td>
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<tr>
<td>Handbook</td>
<td>Kevin Brown</td>
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<tr>
<td>Research</td>
<td>Dave Grumman</td>
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<tr>
<td>Green Guide</td>
<td>Joy Altweis</td>
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<tr>
<td>Existing Buildings</td>
<td>Tom Lawrence</td>
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<td></td>
<td>Dunstan Macauley</td>
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<tr>
<th>Research Projects – Current</th>
<th>Monitoring</th>
<th>Report Mode</th>
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<tbody>
<tr>
<td>Project Title</td>
<td>Contractor</td>
<td>Comm. Chm.</td>
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<tr>
<th>Longrange Research Plan</th>
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<tbody>
<tr>
<td>Rank</td>
<td>Title</td>
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<tr>
<th>Handbook Responsibilities</th>
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<tbody>
<tr>
<td>Year &amp; Volume</td>
<td>Chapter Title</td>
</tr>
<tr>
<td>2009 Fundamentals</td>
<td>Energy Resources</td>
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<tr>
<td>2009 Fundamentals</td>
<td>Sustainability</td>
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<tr>
<th>Standards Activities - List and Describe Subjects</th>
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| Technical Papers from Sponsored Research - Title, when presented (past 3 yrs. present & planned) |  |
| Appendix – 3 |
| TC/TC/TRG Sponsored Conference Papers - Title, when presented (Past 3 yrs. present & planned) |
| Appendix – 4 |
| TC/TG/TRG Sponsored Seminars - Title, when presented (Past 3 yrs. present & planned) |
| Appendix – 5 |
| TC/TG/TRG Sponsored Forums - Title, when presented (Past 3 yrs. present & planned) |
| Appendix – 6 |
| Journal Publications - Title, when published (past 3 yrs. present & planned) |


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 (10-0-0).

3. **Announcements/Membership/Listserv** by John Swift
   3.2 Coming in Joy, Tom Cappellin, Abdel from July 1, 2012

4. **Update from Section 2** by John Swift
   4.1 TC Training workshop was held in the morning
   4.2 2012-13, Award announcement for TC Leadership.
   4.3 New MTG formed on Alternate Refrigerants to lower Global Warming Potential
   4.4 CEC approved changes in Program submission.
   4.5 Website is upto date. List of FAQ on ASHRAE Rebranding are available on ASHRAE website
   4.6 Next winter meeting in Dallas.
   4.7 New ASHRAE Terminology Wiki launched last month.
   4.8 Informed the members about deadline for Papers/Seminar/Forum for San Antonio and Dallas meetings.
   4.9 Next CLIMA Conference is in Prague. Link available on ASHRAE website.
5. **Standards Sub-Committee Report**

5.1 SPC 191 (Proposed Standards for Water Efficiency in Buildings, Site & Mechanical Systems) Update by John Swift

5.2 First draft for public review and voted on by August 1.

5.3 Concern still remains on potential conflict between Standard 189.1, SPC 191 and IAPMO.

5.4 SPC 189.1 (Standard for the Design of High Performance Green Buildings except Low Rise residential Buildings) Update by Andrew (Vice Chair 189.1)

5.5 John invited comments & inputs and encouraged audience to contact him.

5.6 Recent discussions on developing Standard 189.2 (For Residential development). Suggested Roster may come from TC 2.08

5.7 SPC 189.3 (Design, Construction and Operation of High Performance Green Healthcare Facilities) Update by Doug

5.8 Doug Fick was the earlier representative and current representative not known.

6. **Standing Committee Liaison Report**

6.1 ALI (ASHRAE Learning Institute) by Tom Lawrence

6.1.1 Two years back course created for Net Zero Energy Buildings and High Performance Buildings created by TC 2.8

6.1.2 No other update

6.2 TAC

No Liaison present
Tom Sobieski is the Liaison

6.3 Special Publications

No Liaison Present

6.4 RAC

No Liaison present
David John is the new liaison
7. Seminar Sub Committee Report by Dunstan

7.1 In absence of Kevin Brown, Dunstan chaired the sub-committee meeting and presented the report.

7.2 One program on Green Building Energy Pathways and Evaluation approaches (Seminar 53) sponsored by TC 2.08 being presented at San Antonio.

7.3 Dunstan informed that following changes have been done by Society in paper submission process:

7.3.1 All papers submitted for Conference have to be final and ready for printing. The process to go back and edit has been discontinued.

7.3.2 The papers will be reviewed and managed by CEC. Once approved, they will be slotted into session and chair will be appointed.

7.3.3 Approximately 100 slots available for each conference and 25% will go to Conference papers and remaining 75% for Seminars/Forums.

7.3.4 For speakers with rating 3.5 or lower, they will be asked to undertake training on how to improve the quality of presentation.

7.3.5 All complimentary registrations for speakers have been discontinued starting from Dallas.

7.4 Following New Programs have been suggested for future meetings:

7.4.1 Forum on International Green Building Codes to be pursued for Dallas

7.4.2 Seminar on Greening Existing Buildings

7.4.3 Low Carbon Cities-III for Dallas.

7.5 Following are the list of Upcoming Conferences being endorsed by ASHRAE

7.5.1 ASHRAE Annual Winter Meeting at Denver, Colorado in June 2013

7.5.2 ASHRAE Annual Summer Meeting at New York in January 2014

7.5.3 Energy Modeling Conference at Atlanta in October 2012

7.5.4 ASHRAE/NIST Refrigerants Conference in Gaithesburg in October 2012

7.5.5 7th International HVAC Cold Climate Design at Calgary, Canada in November 2012

7.5.6 IAQ 2013, Vancouver

8. Research Sub-committee Report by Joy Altwies

8.1 Briefed on current RTAR 1627 which is in process. It has been re-submitted with comments in May 2012. The status is not known.

8.2 Potential four research topic ideas were discussed in meeting.

8.3 Research ideas were invited from the audience.
9. **Handbook Sub Committee Report by Grumman**

9.1 Sustainability Chapter approved at Chicago meeting and submitted to staff in Feb (First revised chapter for Fundamental Handbook received).

9.2 Final version of Energy Resource Chapter approval by Handbook Sub-committee and TC due in July. Don Brundage has prepared the draft.

9.3 Grumman moved that voting members of TC 2.8 approve the energy resource chapter to be submitted to ASHRAE Staff, Motion seconded by Tom Lawrence, Motion passed 10-0-0.

9.4 Grumman informed that he will be stepping down as chairman of sub-committee and Douglas Fick will be replacing him.

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

10.1 Work on Fourth version of Green Guide has begun after approval from Steve Commstock and targeting Jan 2014 release.

10.2 Tom Lawrence, Janice and Abdul shall be leading the editorial group.

10.3 Survey was carried out to understand the topics to be added to Green Guide late winter/early spring and approximately 80 responses received. More comments were received from the International members.

10.4 Review of Table of contents has been done.

10.5 At Denver meeting, revised document will be available for voting and sent to Steve Commstock.

10.6 The acknowledgements of contributors will be limited to small print so that it does not run in multiple pages and Grumman will assist in compilation.

10.7 Potential Green tip ideas were also discussed in sub-committee meeting.

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.

11.4 The sub-committee will invite comments on Green Guide from experts around the world and seek their inputs.
12. Website Sub-Committee Report by Dunstan

12.1 The TC website is up to date.

12.2 It will have more content added by Dallas meeting.

12.3 Dunstan requested for content to be added to website.

13. Existing Buildings Sub Committee Report by Dunstan

13.1 Dunstan is going to elaborate on further work to be done by this sub-committee.

13.2 Sub-committee is looking at contributing on Existing Building section of Green Guide.

14. Related Activities Report

14.1 LEED (USGBC – ASHRAE Interaction)
   - Amy Boyce from USGBC present during the meeting.
   - Decided to push ballot from August to next June for LEED 2012 which was proposed to be released.

14.2 Advanced Energy Design Guides by Paul Torcellini
   - 50% series has been released.
   - Free download are available for AEDG
   - 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
   - MTG is made up of representative from TC’s but not entitled to do any research and instead put the ideas back into TC.
   - It is proposed that TC 2.08 may have a sub-committee on low carbon tool reporting back to MTG.

14.4 Database for Analyzing Sustainable and High Performance Buildings by Michael Deru
   - This task has been moved to TC 7.6
   - A prototype for developing database is being coordinated by Bruce Hunn.

14.5 Inter Agency Sustainability Working Group by Kinga Porst
   - Last meeting was held in May 2012. Topics discussed included NZEB, maintaining certification for rated buildings etc.
   - Next meeting is on July 19, 2012.

14.6 Green Globes/GBI (Harvey J. Bryan/Coad)
   - No inputs

14.7 ASHRAE Climate Change Program
   - Did not come up for discussions

14.8 Design towards NZEB Short Course (Frank Mills / Dunstan Macauley)
   - Did not come up for discussions.
14.9 MTG on Green Life Cycle Analysis (Tom Lawrence)
   • No work has been done and scope may not be under purview of TC 2.8
   • It is suitable for Research topic
   • This idea is dropped

14.10 Proposal Standard on Energy Modeling (Glaser)
   • Being done by TC 2.09
   • Dave Ellis was requested to report back in next meeting.

15. New Business

15.1 Discussion was done on on ASHRAE BEQ program which is currently under pilot stage. Proposed to include it in next meeting agenda.

15.2 Mitch Swann reported that TC 9.11 is working on Design Guidelines for Clean rooms and draft may be available by June 2013.

15.3 On the idea proposed by MTG for developing low carbon tool, it was proposed that Michael Deru to take lead and include Paul, Dunstan, Tom, John in discussions to chalk out feasibility of taking this idea forward.

16. Adjourn

16.1 Motion by Dunstan
16.2 Seconded by Tom
16.3 Motion passed unanimously (10-0-0).

TC 2.8 Web Site  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

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.