

ASHRAE TC1.5 Computer Applications

Meeting Minutes

New York Winter Meeting

January 21, 2008

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

ASHRAE TC1.5 ACTIVITIES SHEET

TC NO. TC 1.5 TC TITLE: Computer Applications

CHAIR: Krishnan Gowri VICE CHAIR/SECRETARY: Mike Pouchak

DATE: January 21, 2008

TC Web Site: <http://tc15.ashraetcs.org/index.html>

TC# 1.5	Committee Name: Computer Applications
	Chair: Krishnan Gowri

Meeting was Held	(Day) Monday	(Date) 01/21/2008
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Membership		
	Number Present	Total Number on Committee
Voting Members	9	12
International Members	1	1
Corresponding Members	7	25
Visitors and Guests	8	-

Handbook Responsibilities		Standards Responsibilities	
Volume and Chapter (number only)	Next Revision Due Date	Standards Number (number only)	Next reaffirmation date
Applications, Ch. 38	TBD		

Transactions	Seminars	Forums	Poster Sessions
	Seminar 34		
	Seminar 89		

Current Research Activities		FAQs Responsibilities	
Research Project (number only)	PMS meeting held (yes/no)	FAQ number (number only)	Last time reviewed (Month/Year)
1354	yes		

Does Committee have Website on ASHRAE Server? Yes URL if on another Server: _____
 If so, is Website up to date? Yes _____

Attendance:

Name	Affiliation	TC	Res	Prog	Emer Apps	T&P	Hand book
Michael Bobker	Trg-7		X				
Norman Bourassa	California Energy Commission		X	X	X		
David Branson	Compliance Services Group, Inc.	X				X	
j. Patrick Carpenter	Vanderweil	X					
Tim Dwyer	London South Bank University	X	X	X	X		
Krishnan Gowri	Pacific Northwest National Lab	X	X	X			
Walter Grondzik	Florida A&M University	X					
Rob Hitchcock	Lawrence Berkeley National Laboratory	X	X	X	X	X	X
John Kennedy	Green Building Services	X					
Ron Nelson	Iowa State University	X	X	X	X		
Bob Old	Siemens Building Technologies	X	X	X			
Zheng O'Neill	Utrc.utc		X				
Vernon Peppers	Peppers Engineering	X					X
Michael Pouchak	Honeywell, Inc.	X	X	X	X		X
Steve Rosen	Autodesk, Inc.	X	X				
Stephen Roth	Carmel Software	X	X				
Pornsak Songkakul	Siemens Building Technologies	X	X	X	X		X
Larry Schaefer	Carrier		X	X			
Darren Smith	P2Seng				X		
Michel Tardif	Nhcan Canada				X		
Anna Zhou	Taylor Engineering		X		X		
Xiaohui Zhou	IOWA Energy Center	X	X	X	X		X

TC 1.5 Computer Applications

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Main Committee Meeting New York, NY Jan 21, 2008

Committee Meeting Schedule

TC 1.5 Computer Applications (25/25) (screen/E)

Monday 6:30-9:00p H/Gramercy B (2)

Sponsoring: Seminar 34. Trends in Using BIM for Design of New Buildings and Seminar 89. Performance Monitoring to Achieve Net Zero Energy

TC 1.5 RP 1354-PMS (5/5) (screen)

Monday 8:00-9:00a S/Liberty 3 (3)

TC 1.5 Emerging Applications (6/10) (screen)

Sunday 5:30-6:30p H/Concourse D (C)

TC 1.5 Research (15)

Sunday 6:30-7:15p H/Concourse D

TC 1.5 Program

Sunday 7:15-8:00p H/Concourse D

Main Committee Meeting Minutes

• *Call to order*

Meeting called to order at 6:30 p.m.

• *Introductions/Sign up sheet/Welcome*

• *Agenda Review*

• *Roll Call: **Quorum: 9 of 12** voting members present.*

MEMBER	PRESENT?
Krishnan Gowri	X
Mike Pouchak	X
Mike Galler	
Nick Rajkovich	
Tim Dwyer	X
Ron M. Nelson	X
Vikrant Aute	
Dave Branson	X
Walter Grondzik	X
Vernon Peppers	X
Steve Rosen	X
Stephen Roth	X

Motion to approve Long Beach Meeting Minutes:

Moved by Gronkzik, Seconded by Branson. Discussion: None;

Motion Passed: 9-0-0

. Chair's Report

- Dinner Plans
- Announcements
- No paperless server.
- New Research Chair- Hitchcock
- Step up to the plate award given to Pornasak Songakul –filled in for Emerging Apps & Programing. Also given to Walter Gronzik for taking over Handbook temporarily.
- Roster review – Krishnan needs to send in update roster. Ron Nelson to stay as Webmaster. Reviewed current roster for active members.
- Agenda item changes.
- MBO objectives: our TC 1.5 Management by Objective (MBO) goal, requested by the Technical Activities Committee (TAC) is: Increase TC 1.5 subcommittee activities by having each TC 1.5 participant assigned to a subcommittee.

. Subcommittee Reports

- **Handbook** – Walter Grondzik (for Mike Galler)

Our chapter is published in HVAC applications 2007 handbook. Chapter 39 Computer Application. Next handbook publication for HVAC applications is 2011. CD Plus is available for annual changes.

Request from HB committee – focus on practical applications, sustainability, zero energy, and globalization. Send any updates for TC 1.5 handbook chapter to the Handbook chair. There was several discussions about electronic content for CD +. There were comments that more electronic content from TC 1.5 would be welcome.

Walter is currently serving as Vice Chair of the Society Handbook committee.

Idea from Ron Nelson – have a real time building link such as ASHRAE headquarters building data on-line.

A Signup for volunteers for Handbook committee will be handed around. Latest review for content was outstanding.

There was recognitions for current Handbook chairs and previous handbook contributors.

- **Research Subcommittee** – Rob Hitchcock

Research Subcommittee Met last night. RAC submittals May 15, Aug 15, Dec 15

New RAC liaison is Sriram Somasundaram. Include him in the loop on RTAR. Still in process of revising research manual – due Jan 31, 2008. New conflict of interest policy – WS authors no longer prohibited from bidding on contracts with checks and balances clauses.

A research advisory panel, including TC 1.5's Allison Kwok is modifying the Strategic Plan for ASHRAE.

There was an update from PMS on RP 1354 – which met earlier in the morning before GPC-20 meeting. Glazer made progress since the Long Beach meeting. Completed tasks 1 -4 of 7 total. Currently at 50% complete. 65% of funding is spent. Estimate 25% of budget remaining for rest of project. PMS is considering a no – cost extension to July 31 of this year. There was already one no cost extension.

Motion to provide a no-cost extension for RP-1354 to be completed by July 31, 2008.:

Moved by Branson, seconded by Dwyer. Discussion: Discussion by Roth expressing concern of potential future delays.

Motion Passed: 9-0-0

California Energy Commission (CEC) co- funding for 1354 is going forward after delays and negotiations. Rob received a Step up to the plate aware for his contributions to RP1354.

RP1468 “Development of a Reference Building Information Model (BIM) for Thermal Model Compliance Testing.” — Work statement is being reviewed, need to be submitted by March 3.

Definitions and clarity of terms related to potential BIM sources and which thermal analysis targets are to be used.

Action for All – review WS 1468 ;

Mike to publish to list server; email comments to John Kennedy with copy to Rob Hitchcock

Steve Roth to coordinate with Rob Hitchcock to mentor process. Need first Round comments by Feb 8, 2008.

Need revised WS ready for submission by February 21, 2008. Then go to email ballot and forward to RAC by March 3.

- **Emerging Applications** – Pornsak Songkakul (for Nick Rajokovich)

Emerging Apps Subcommittee was dissolved. Request the following time slots for Salt Lake: Research 5:30 to 7:00 p.m. ; Program Sunday 7 pm to 8 pm. The research time slot will cover brainstorming of new program ideas, new research ideas, RTAR, priority of RTAR , and reviewing works statements.

Discussion to dissolve Emerging Apps. Discussion by Branson: TC 1.5 brings new technology to ASHRAE and changes will support our goals. Hitchcock brought up the concept of keeping the time slot open and changing the name. Branson: We can adjust time due to importance of time slot. Smart Sensors discussion brought up by Zhou. New name for Emerging Apps. Main committee decision – not to dissolve but rename and continue with the subcommittee activities.

Motion to allow chair to rename Emerging Apps to Emerging Technologies: (new name) as needed. New name will be the name for the current meeting ; example Emerging Technologies: Smart Sensors Moved by Grondzik ; seconded by Pouchak. Discussion: None;

Motion Passed: 7-0-0 motion carries.

TC 7.5 asked if we would be interested in shoot out for ASHRAE headquarter. Interested members to contact Pornsak, and attend next TC 7.5 meeting.

- **Program subcommittee** – Pornsak Songkakul

Seminar 34 – “Trends in using BIM for Design of New Buildings “this morning – well attended.

Seminars lined up for Salt lake: Benchmarking and beyond- Hitchcock; Benchmarking the effects of virtual learning tools-Dwyer; using BIM for LEED certification-Gowri
New meeting minutes include new priorities and clean up old programs.

Motion to approve meeting seminars as proposed in Program subcommittee minutes;

Moved by Grondzik seconded by Roth, Discussion: None

Motion Passed: 8-0-0

Pornsak will not be at Salt Lake. Grondzik agrees to fill in for Pornsak.

- **Web Page** – Ron Nelson

ASHRAE keeps changing page. Contact Ron to post items to web site. Links to list server will be verified.

- **Standards** – Alison Kwok – not present.
- **T&P** – Dave Branson – Met. 3 people attended. Hitchcock, Nelson and Branson. Watching for someone to add to list for remedial action. Peppers pointed out that there was no server for the paperless meeting.

Liaisons

- **TAC Section 01 Head** – Tony Jacobi
- **Program Liaison** – Robert Bunn
- **CTTC Liaison** – Lee Loomis
- **Standards Liaison** – Jim Lutz
- **PDC Liaison** – Gordon Holness
- **Special Pubs Liaison** – Harvey Sachs
- **Handbook Liaison 2009** – John Wells
- **RAC Research Liaison** – Sriram Somasundaram
- **Staff Liaison** - Mike Vaughn
- **GPC-20** – Chip Barnaby/Rob Hitchcock – mostly consumed by 1354 RP. Terminology discussion. At several Mark Palmer to address in Terminology 1.6. Discussion for ASHRAE to establish a Wikipedia for terminology. There is a steering committee that reports to tech council on BIM. Gordon Holnes is chair. Incoming treasurer and will be president of ASHRAE. Change IAI BIM report to
- BIM steering committee report (formerly **International Alliance for Interoperability**) - Rob Hitchcock
- **1354-RP PMS** – Rob Hitchcock (See Research Subcommittee report)

Old Business - none

New Business – Discussion on next 6 months: Branson discussed that we must be on the cutting edge of committee. We may come up with some area of focus that may spur other area of ASHRAE to develop. We should not be afraid to come up with new ideas. Gowri – new technologies included Paperless Wireless, Meeting schedule. May need to focus on stir up enhanced CD content.

Meeting Times for Salt Lake City – No changes.

Adjourn - Motion to adjourn; Moved by Branson, seconded by Nelson.
Motion Carries 8-0-0

TC 1.5 Emerging Applications Subcommittee Meeting **Minutes:**

H Concourse D, Sunday January 20th, 2008, 5:30 – 6:30 p.m.

Agenda:

1. Welcome and Introduction
2. Sub-committee chair needed for TC 1.5 Emerging Application Subcommittee

Tasks and charters of the Emerging app subcommittee were reviewed and discussed. An issue was raised about the existence of this sub-committee. After lengthy discussion on the topic, participants have decided on propose the followings to the full TC 1.5 committee:

- Dissolve the emerging application sub-committee
- Request the following time-slots for Salt Lake City
- Research, Sunday 5:30 p.m. to 7:00 p.m.
- Program, Sunday 7:00 p.m. to 8:00 p.m.

The research time slot will cover brainstorming of new program ideas, new research ideas, RTAR, priority of RTAR, and reviewing work statements.

3. Symposium, seminar, program for Salt Lake City, June 21-25, 2008

Seminar: Benchmarking and Beyond (Action Oriented Benchmarking)

Chair: Rob Hitchcock

Speakers: Norm from CEC would be able to recruit 2 speakers, Tim Dwyer would be able to recruit 1 speaker

Seminar: Use of Portfolio Manager and Energy Star for Performance Benchmarking

Chair: Need chair

Speakers: Need speakers

4. New research topic:

Using ASHRAE collected data to validate the BIM model for the renovated ASHRAE Headquarter

5. Adjourn

TC 1.5 Program Subcommittee Meeting Minutes:

H Concourse D, Sunday January 20th, 2008, 7:15 – 8:00 p.m.

Agenda:

6. Welcome and Introduction

7. Programs for New York

Seminar 34

Trends in Using BIM for Design of New Buildings

Monday, January 21, 2008, 9:45:00 AM-10:45:00 AM

Seminar 89

Performance Monitoring to Achieve Net Zero Energy

Wednesday, January 23, 2008, 1:00 PM-2:30 PM

8. Symposium, seminar, program for Salt Lake City, June 21-25, 2008

Seminar	Benchmarking and Beyond (Action Oriented Benchmarking)	Hitchcock
Seminar	Benchmarking the effects of virtual learning tools	Tim Dwyer
Seminar	Using BIM for LEED certification	Gowri

9. Clean up programs on the list. See new york 2008 TC-15-Program_012008.XLS

10. New business

Pornsak will not be able to attend the meeting in Salt Lake City. Need a volunteer to run the program sub-committee meeting.

11. Adjourn

Votes	- Future Programs (Updated 01/11/2008)						
	Rank	Venue	Type	Title	Chair	Speakers Committed	Notes
		Future	Forum	AHSRAE 20/20 - Is the HVAC Engineer Endangered from the Research done in 2000-2005 ?	Schwedler		
		Future	Seminar	Tooling up today's youth to be an engineer	Tim Dwyer		
		Future	Short Course	Electronic Information Exchange - (how to)	Hydeman		Course dev. Subcommittee
		Future	Transaction	Emerging Applications for the HVAC Industry Part 2	Branson		
		Future	Seminar	Unboxing the solutions: Temperature Controls Solutions from Outside the Box	Branson		Find speakers from outside HVAC industry
		Future	Seminar	Security standards for Wireless Sensors and Controls Network	Songkakul		
		Future	Seminar	Net zero file transfer	Hydeman	Yes	3 speakers committed, not accepted for New York
		Future	Forum	What can ASHRAE do to electronically store and convey information to HVAC community	Grondzik, walter		
			Transaction	Emerging Applications	Branson	Yes	Nelson has 3 papers under reviewed, not in time for New York

Future

Seminar

Energy Star for
Performance
Benchmarking
Simulation on
the GO

Gowri

Gadget and ultra portable tools
for energy, controls, and HVAC
operations with simulation
capability

Future

TC 1.5 Research Subcommittee Meeting Minutes

H Concourse D, Sunday January 20th, 2008, 6:30 - 7:15 p.m.

1. Welcome and Introduction
2. Report on 1354-RP "Common Data Definitions for HVAC&R Industry Applications"

PMS meeting held Monday 8-10am. Contractor GARD Analytics' Jason Glazer gave status presentation. Good progress on Tasks 1-4. Task 4 approximately 50% complete as defined. 65% funding/time spent to date, with 24% previously planned for Tasks 5-7. 11% remaining for Task 4 is not sufficient. PMS is considering implications. Recommended no-cost extension to July 31, 2008. We need a TC1.5 (closed?) discussion and vote on this.

CEC is processing funding of follow-on effort by Rob Hitchcock to fold results from 1354-RP back into Guideline 20P, and edit Guideline 20P to point of public review release. Proposed Statement of Work available for feedback.

3. Review Work Statement for 1468 "Development of a Reference Building Information Model (BIM) for Thermal Model Compliance Testing"

All TC1.5 members are encouraged to read 1468-WS and email comments to John Kennedy with cc to Rob Hitchcock.

Comments received to date:

- Assure tasks are consistent in Objectives and Scope
- Identify specific BIM "sources" and thermal analysis "targets" for clarity of scope.

4. Adjourn

Additional Announcements following Research Subcommittee Chair Breakfast

- RTARs and Work Statements due May 15, August 15, December 15
- 1468-WS should be submitted by March 3 for Spring consideration. Submit to RAC Liaison Sriram Somasundaram (RL1@ashrae.net) for early feedback.
- Revised Research Manual to be posted to ASHRAE website by January 31
- Conflict of Interest Policy revised to no longer discourage WS authors from bidding, with checks and balances:
 - TC must identify at least 3 qualified bidders
 - PES/PMS must have at least 3 members
 - Bidding organizations may not be on PES
 - Contracting organizations may not be on PMS
 - Bidder involved in writing WS may not have unique facility or capability that is not explained in the WS and reasonably available to other bidders
- Research Advisory Panel is revising Strategic Plan. Alison Kwok is members.
- USGBC related research - \$1M committed for green building research, which may become an ongoing program. Bruce Hunn, ASHRAE DOT serves on committee. Request for pre-proposals expected late January with probably short deadlines. Work with RAC to submit proposals.

GPC-20 Meeting Minutes NYC
January 21, 2008

Call to Order

Introductions

Roll Call

Barnaby Y
Brook
Burns Y
Forester
Gowri Y
Galler
Hitchcock Y
Kennedy Y
Old
Pouchak Y
Roth Y
Schaefer Y

Action – Barnaby: Check with Bob Old for Siemens replacement voting member

Guests:

Dan Macumber NREL
Chris Balbach Performance Systems Development
Mark Owen ASHRAE Staff
Christie Helms ASHRAE Staff
Steve Rosen Autodesk
Walt Marlowe Executive Director CSI
David Conover ICC

Agenda Approved

Long Beach minutes still need to be formally written up

Action – Long Beach minutes to be assembled, All send missing items and corrections

Liaisons:

Mark Owen present and listening
Working with all ASHRAE pubs to understand what is happening in XML world and how staff can support.

Reports on Related Activities:

BIM/Interoperability Committee discussion

Started as Ad Hoc, but has become Standing Committee reporting to Tech Council, chaired by current Treasurer who will become President. Remit is to get things moving related to BIM and interoperability. Two hour Saturday meeting. Good work to date:

drafts of Journal article and BIM Guide outline. Looking at how this changes ASHRAE business model. Terminology Dictionary and Data Dictionary need to be pulled together.

Terminology of HVAC&R is out of date, ASHRAE Staff pushing to have this reworked in 6-12 months within TC1.6. Mark Palmer member of TC1.6 will help define purpose and use of new Dictionary. GPC-20 should play a role in assuring appropriate purpose and use. Can TC1.6 put a process/mechanism in place that supports interactive input to develop and maintain a living document of terminology (a la wikipedia)? Non-volunteer support for this effort is required. Will require ASHRAE staff working in concert with ASHRAE domain expert membership. If all ASHRAE pubs were available in electronic format, then they could be auto-indexed as a first step in collating terminology references.

Can we get BIM and Interoperability committee to document/define a process, and carry it forward to necessary ASHRAE staff.

Action – close loop with TC1.6, SPC166, and BIM/Interop committee to develop the Dictionary living document process and supporting mechanism. GPC-20 input from Barnaby, Kennedy, Schaeffer, Conover to TC1.6.

OGC (Open Geospatial Consortium) Testbed 5 (Palmer description needed)

Working on use case scenarios (e.g., cost, energy analysis). Putting together a request for technology package.

AEX

Working on chillers with GM at the table.

CSI

Interested in GPC-20 activities. Developing wiki process. GPC-20 would welcome input from CSI.

Web Site and Email Listserv

Action – Barnaby to distribute instructions on adding themselves to email listserv.

1354-RP PMS update

Action – Hitchcock to develop action plan for review of Task 4 results by schema experts.

CEC-funded SOW for follow-on to 1354-RP

Action – All – feedback to Hitchcock and Brook on SOW.

Guideline 20 Document Status

We did have a plan from Long Beach for working on Guideline, which was not followed through.

Action – Barnaby, Hitchcock, Roth - Feb.18 new Guideline outline distributed to GPC-20, suggestions to Barnaby by next week.

Action – Burns to email to Galler current Guideline document draft for distribution, or posting to web site.