

ASHRAE TC ACTIVITIES SHEET

DATE: January 14th 2002

TC NO. TC 1.5

TC TITLE: Computer Applications

CHAIR: W. Grondzik

VICE CHAIR/SECRETARY: M. Hydeman

TC 1.5 MEETING ATTENDANCE

First and Last Names	Affiliation	Email	TC	Research	Program	Emrg	Handbook	Internet
Chip Barnaby	Wrightsoft		X					
Bruce Billedeaux	Armstrong Service. Inc.					X		
Al Black	McClure Engineering Associates		X					
Mike Brambley	PNNL		X					
David Branson	Compliance Services Group, Inc.		X		X	X	X	X
Rob Briggs	Battelle Pacific Northwest Lab		X	X	X			
David Claridge	Texas A&M University		X					
Wayne Dunn	Sunbelt Solutions		X					
Tim Dwyer	South Bank University London			X	X	X		X
Charles Francis	1515 Mercer Road						X	
Mike Galler	NIST		X			X	X	
Krishnan Gowri	PNNL		X	X				X
Walter Grondzik	Florida A&M University					X		X
Kristin Heinemeier	Texas A&M		X					
Rob Hitchcock	Lawrence Berkeley National Lab		X			X		X
Mark Hydeman	Taylor Engineering		X					
Zach Obert	Farnsworth Group, Inc.			X				
Vernon Peppers	Peppers Engineering		X					
Michael Pouchak	Honeywell, Inc.		X				X	
Mick Schwedler	The Trane Company		X				X	
Pornsak Songkakul	Siemens Building Technologies		X	X	X	X		X
David Venters	BuildFile		X					
James Watts	Ingersoll-Rand Energy Systems		X	X	X			
Wayne Webster			X					

TC MEETING SCHEDULE

Location, past 12 mo.	Date	Location, next 12 mo.	Date
Cincinnati	Jun 2001	Honolulu	Jun 2002
Atlantic City	Jan 2002	Chicago	Jan 2003

TC SUBCOMMITTEES

Subcommittee	Chair
Emerging Applications	Pornsak Songkakul
Handbook	Mike Pouchak
Internet	Rob Hitchcock
Program	Krishnan Gowri
Research	James Watts

RESEARCH PROJECTS

Project Title	Contractor	Monitoring Committee Chair	Report Made at Meeting?
TRP-1049		Ron Nelson	Yes
TRP-1032	PECI	Dave Branson	Yes
TRP 1228	Scientific Computing	Dave Branson	Yes

LONG RANGE RESEARCH PLAN

Rank	Title	W/S Written	Approval	To R&T
1	Prototype demonstration of IFC/aecXML interoperability in support of HVAC&R activities.	No	Yes	No
2	On-line development of standards	No	No	No
3	Retooling the HVAC education process to better Use Computer-Aided Design	No	No	No
4	A Multimedia database for examining and comparing HVAC design alternatives	Yes	No	No
5	Software tool to aid the development of work statements that have software deliverables	No	No	No

HANDBOOK RESPONSIBILITIES

Year & Volume	Chapter Title	No.	Deadline	Approval	Handbook Committee Liaison
2003 Applications	Computer Applications	38	2003	No	Charles Francis

STANDARDS ACTIVITIES

None

TECHNICAL PAPERS FROM SPONSORED RESEARCH (PAST 3 YRS, PRESENT, PLANNED)

Title	When Presented
1032 TRP - Interoperable Computer Applications – Dave Branson	Chicago (1/03)
1017 RP (Akleman and Haberl) – Jim Watts	Chicago (1/03)

TC SPONSORED SYMPOSIA (PAST 3 YRS, PRESENT, PLANNED)

Title	When Presented
Computers in HVAC Education - Nelson/ONiel	Future
1017 RP (Akleman and Haberl) – Watts	Chicago (1/03)
Interoperable Computer Applications – Branson	Chicago (1/03)
Symposium AC-02-9: Tools and Techniques for Calibration of Component Models - Agami	Atlantic City 1/02

Reddy	
Computers and HVAC Education – Nelson	Chicago 01/99
The Great Energy Predictor Shoot-out II	San Antonio 6/96

TC SPONSORED SEMINARS (PAST 3 YRS, PRESENT, PLANNED)

Title	When Presented
Network Applications of Internet, Intranet and Building Automation - Pouchak	Future
We are not alone in the universe emerging applications around the world - Forrester	Future
Apply measured data to measurement and verification - Pornsak	Future
Methods for exchanging / integrating data among different HVAC & Control systems and business information systems - Pornsak	Future
Seminar.com: Potential & Pitfalls of Moving Business to the Internet - Grondzik	Future
Internet based training - Grondzik	Future
Emerging Internet Technologies Bring New Business Opportunities - Dunn, Wayne	Future
A Day in the life of ASHRAE members in the YEAR 2010 - Culp	Future
Cool Stuff that ASHRAE Could be Doing Using the Internet - Grondzik	Future
Next generation of AEC application development - Pornsak	Chicago (1/03)
Experiences with Electronic Collaboration on the Teamwork 2001 Project - Dwyer/Branson	Chicago (1/03)
Terms that your new engineer knows, but you don't - Schwedler	Honolulu (6/02)
Internet technology for HVAC/R business Use IT or lose it - Dwyer	Honolulu (6/02)
Self-Configuring Control Systems: Needs, Technology and Potential Benefits - Mike Brambley	Honolulu (6/02)
Seminar 14: Uses and Benefits of Electronic Collaboration, Newsrooms and Groupware - Mike Pouchak	Atlantic City 1/02
Seminar 46: Pattern-Recognition-Based Fault Detection and Diagnostics for Building Operation - Mike Brambley	Cincinnati 6/01
Seminar 18: Internet for Global Working - Tim Dwyer	Cincinnati 6/01
Seminar 35: Future NET Gains for the AE Office - Brian Kammers	Cincinnati 6/01
Seminar 27: Interoperable Computer Applications for the HVAC Industry - Mark Hydeman	Atlanta 1/01
Seminar 18: What is the Future Relationship Between DDC and the Web? - Dave Branson	Minneapolis 6/00
Seminar 35: Applications of Electronic Media for the Development and Implementation of Codes and Standards - Mark Hydeman	Minneapolis 6/00
What is the Future Relationship Between DDC & the Web - Branson	Dallas 02/00
Where is ASHRAE Going With the Web - Dunn	Dallas 02/00
Data Visualization for Building Operations - Kammers	Dallas 02/00
Business in the Year 2000? or 1900? - Schwedler	Chicago 01/99
Does Your TC or Chapter Need Members? Retention? Communication? Action? Try Computer and the Web?	Toronto 06/98
Use of Internet for Collaborative Efforts in HVAC - Branson	Toronto 06/98
Emerging Applications: From PID to Fuzzy Logic & Beyond - Sun	San Francisco 01/98
Demonstration of Inter-Operable Computer Applications for the HVAC Industry - Forester	San Francisco 01/98
Use of the Internet by Technical Committees - Schwedler	San Francisco 01/98

TC SPONSORED FORUMS (PAST 3 YRS, PRESENT, PLANNED)

Title	When Presented
Collaborative Web Based Benchmarking - Norford	Future
Should ASHRAE Establish Guidelines for Electronic Media that Contains Manufacturer's Product Information? - Sun/Grondzik	Chicago (1/03)
ASHRAE Research Developed Software: Should it be free? - Branson	Honolulu (6/02)
Forum 28: What Does the ASHRAE Membership Need from the Computer Applications Handbook? - Mike Pouchak	Atlanta 1/01
Forum 22: Sensors for HVAC: Problems, Needs & Technology - Mike Brambley	Minneapolis 6/00
Forum 8: How Should We Apply Electronic Media to the Development and Implementation of	Minneapolis 6/00

Standards? - Mark Hydeman	
Sensors for HVAC: Problems, Needs & Technology - Brambley	Dallas 02/00
What is the Members' View of Electronic Media Support for Standards? - Hydeman	Dallas 02/00
What is the Members' Response to ASHRAE's Web Plan? - Sun	Seattle 06/99
What Support Is Needed For ASHRAE Software? - Kammers/Webster	Chicago 01/99
Computer-Based Training - What Subjects Should ASHRAE Put on the Web or CDs? - Culp	Toronto 06/98
Should ASHRAE Sponsor a Cyberspace Virtual Chapter? - Hallstrom	Toronto 06/98
Who Should Champion the Transfer of Technology on the Internet? - Branson	Toronto 06/98
What Would You Do If You Had Internet Access for Your Building Control System – Songkakul	San Francisco, 01/98
What Do ASHRAE Members Want Form The ASHRAE Homepage - Linton	San Francisco 01/98
What ASHRAE members want/ need from Manufacturer's World Wide Web Site	Boston 06/97
What to ASHRAE Members want from the ASHRAE Web page	Boston 06/97
How Can User Interfaces for HVAC Software be Improved	Philadelphia 01/97
What Should ASHRAE's Role Be In The Industry Alliance for Interoperability?	San Antonio 06/96
What Do ASHRAE Members Want/Need from the World Wide Web?	San Antonio 06/96
HVAC, Virtual Reality, and You	San Antonio 06/96
What are the CAD/Simulation Tool Needs of ASHRAE Members?	San Antonio 06/96

JOURNAL PUBLICATIONS (PAST 3 YRS, PRESENT, PLANNED)

Title	When published
What HVAC Applications Would Benefit from Computer-Aided Instruction - Culp	TBD
Diagnostics for Outdoor Air Ventilation and Economizers - Brambley, Pratt, Chassin, Katipamula and Hatley	10/98

SUBMITTED BY: Mark Hydeman-- TC 1.5 Secretary

TC 1.5 (Computer Applications) Minutes

Atlantic City 01/2002

Monday – January 14th, 2002 6:30 p.m. -- 9:00 p.m.

General

- **Call to order** at 6:35 p.m.
- **Introductions/Sign up sheet** – TC info passed out by Chair
- **Agenda Review** – no additions made
- **Roll Call** (Watts, Pouchak, Briggs, Hydeman, Grondzik, Branson, Hitchcock) Quorum established 7 of 12
- **Dinner at 9:30pm 14 people.**
- **Atlanta Minutes Approval** –
Motion by Pouchak/second by Watts; Motion passed by unanimous voice vote with Chair not voting 7-0-0 CNV

Chair's Report – Walter Grodzik

Announcements –

- The electronic version of the handbook is the “official handbook”
- A contract has been let by ASHRAE for web services. We should have an updated website in the next few weeks. There will be an integration of the database with one record per member. They will also provide host services for all ASHRAE TCs and other websites (TBD).
- We need to review the TC TPS and give review to the Section Head. This was done last year
- TCs need a minimum of 6 voting members and 12 corresponding members.
- There was an excellent seminar to present and solicit feedback for ASHRAE's Roadmap for the Website. The roadmap is available for comment and review at <http://www.ashrae.org/ABOUT/websitedev.htm>.
- ALI liaison for each TC. Walter will add to roster.
- You can sign on to a list server for standards actions on ASHRAE's website.
- We have a request to do a TC Handbook Survey.
- There is an Ad-Hoc Committee on the Website Mark Hydeman has information and is a member.
- The scheduling mess up is a one-time event. We should be back on schedule in Honolulu.

Action Item Review -

- None

Committee Membership

Interested members should contact Walter. He needs to know by noon tomorrow. He needs a name and ASHRAE number.

Section Liaisons:

- none

Subcommittee Reports

Program –Krishnan Gowri (Attachment A)

- 4 programs prioritized for AC only 2 accepted.
- We can only have 2 programs for Honolulu.
- Feb 8th deadline for Honolulu.
- Jim Watts has 2 papers in hand. He will check with ASHRAE for papers seeking a symposium for Chicago.

- Brambly has a seminar likely to be co-sponsored by 4.11 Self configuring control systems: needs technology and potential benefits.
- We should be careful make sure that our programs are of interest to the general membership and not too geeky.

Motion to approve programs as prioritized by Hitchcock - Seconded by Branson - to accept program.

Motion passed by vote of hands (7-0-0) with Chair not voting

Motion to approve co-sponsorship of program with 4.11 by Briggs Seconded by Watts- to accept program. Motion passed by vote of hands (7-0-0) with Chair not voting

- **Program packages to be submitted on-line by Feb. 8th.**
- Reviewed current Atlantic City programs.

Research – Jim Watts (Attachment B)

- This is the first year that AHR funding goes to Society, research only gets matching funds from what they raise on their own. The number of awarded projects is decreasing. See attachment B for details.
- We had 4 RTARs rejected. We may have 1 RTAR per year funded (only if it is really good). Needs good justification of benefits.
- RP-1049 report from Chip Barnaby. PI did not come he sent a grad student. Target to get done in September. Lots of genetic algorithm schemes. Some are horrendously slow. They are using Java. This is due to moving some of the optimization to Java. Good progress on project. PMS provided feedback.
- RP-1032 Dave Branson. Finished review of internal draft in November. Received edited report that is ready for formal review. PMS voted to accept it. TC 9.9 had some concerns early on and they have been resolved. They will shoot for a symposium in Chicago, they have 2 papers.
- RP-1228 Dave Branson. This is a follow-on of RP-966 to condense it to a usable form. This will be a couple of spreadsheet. Henry Amastadi is no longer a member of Society (Air-Conditioning Society that is). He delivered the first draft to the PMS.
- The approved work statement Prototype Demonstration of IFC/aecXML Interoperability in Support of HVAC/R Activities. Rob and Jim will rework it to submit by May 15th. This will be by email ballot. There are 23 work statements on hold. Rob Hitchcock, Pornsak Songkakul, David Venters and Krishnan Gowri are on the PMS.
- By Hawaii we need at least one RTAR.

Motion to accept RP-1032 deliverable by Watts, second by Hitchcock. Motion passed by vote of hands (7-0-0) with Chair not voting

Emerging Applications – Pornsak Songkakul (Attachment C)

Four people. 7:30am appeared to be too early for most people.

Internet – Rob Hitchcock (Attachment D)

Same as Emerging Applications.

Handbook – Mike Pouchak (Attachment E)

- Substantiative edits. On the 3rd liaison in as many months. Originally planned to have final draft in Hawaii. The new schedule is more aggressive. Handed out draft for review. Electronic draft to Secretary on Jan 17th to Members and CMs. Full edits by Jan 21st. Final draft for approval by Sectary Feb 5th. Vote by Feb 12th. Electronic approval form. On a positive side, the earlier chapter was cut from 27 pages were 18 were published. The new version will not be cut in the electronic form. The electronic version may be different from the printed version.
- Vernon Peppers Handbook is developing the eHandbook. They are working on several chapters. There are no standards on how this will be developed. Vernon is doing his in HTML others may be doing something different. He believes TC 1.5 should take a lead in establishing these standards. Dave Branson noted that there was a follow up proposal to 1017 to create a toolkit, this was bounced to Special Publications. Dave and Mick have been nabbed by the Handbook Committee, Mick is working with TCs on eEnhancements. They have been working with 6 TCs. Most are working on enhancements not the temp.

Motion to have the Chair write a letter to Handbook Committee recommending that a task group be formed to develop guidelines, protocols and formats for the eHandbook by Branson, second by Hydeman. Motion passed by vote of hands (7-0-0) with Chair not voting

- Discussion points to be included in Chair's letter:
At least 3 TCs have expressed concerns.

They should direct cognizant TCs for Chapter 34 to make their upgrades for the next version to the 1017 version of Chapter 34. (Jim Watts's contribution)

- The TC handbook submission will have links to other chapters and no on other items until next version. In the future it will be all yeses.
- TCs will be allowed to update the handbook every year. This will be reflected in the electronic version. The written version will be updated every four years.

Standards – Rob Briggs

Did not meet

Webmaster report (Ron Nelson)

Action Item subcommittee chairs to send Ron updates

Liaisons

- SPC – 134P – Vernon Peppers, Received comments produced 2nd draft, received comments and have responded to some and ignored others. This has been submitted to the Board.
- Rob Hitchcock and Wayne Dunn GPC 20 – Meeting with 10 people, it is not official yet but is working through the process. They have identified possible officers. They would like to hold 2 meetings per year on Sunday Morning if possible. They identified webmaster and will establish a website by February. Substantial interest from attendees.
- Rob Hitchcock - IAI report, They have a number of software tools including middleware tools, CAD tools, energy simulation tools, code checking tools, model checking tools and others that support the IFCs. They are moving forward with BS-8 (<http://eetd.lbl.gov/btp/iai/bs8/index.html>) HVAC component models. They need reviewers. [http://\[ROB TO SUPPLY\]](http://[ROB TO SUPPLY]). They have an XML toolbox. The next wave is IFC-2X (a platform) that will be stable for 2 or 3 years. Beyond that they will add extensions to that basis on an ad-hoc basis. Marty Burns (burnsmarty@aol.com) presented a guide for XML schema. This will be posted on the GPC 20 website. Ask him about EB4XT.
- The new duct database software includes new fittings.

Old Business

A mail ballot was electronically distributed to voting members on 28 August 2001 as follows:

Motion made by Dave Branson and seconded by Duane Barrett: TC 1.5 recommends that Wayne Dunn be appointed chair of GPC 20 "XML Definitions for HVAC&R"; such appointment to be made as soon as practical.

The motion was approved unanimously --- 11-0-0 (CNV) [with 1 no response as per the roster of 9/05/01].

The result of the ballot was conveyed to ASHRAE staff on 26 September 2001.

New Business

Charlie Culp is joining the Policy Committee of RAC. Send him any issues. Feedback from reviews is often exogenous (Branson). Process map (Watts). Lack of continuity in the process or serial comments (Barnaby). Where is the line drawn between applications and research (Grodzik). Provide a development budget for Handbook (Watts)

- Meeting times for Honolulu.
- Pepper's asks TC1.5 to review cyclonic data software for software quality. Mick, Tim, Charlie, will assist.
- **Sub-committee chairs need to provide Chair with strategic planning outline.
- **TC1.5 needs an org chart created that outlines our ASHRAE liaison's etc.**

Committee	Day	Time	Chair
Internet	Sunday	2:00 – 3:00	Rob Hitchcock
Emerging Applications	Sunday	3:00 – 4:00	Pornsak Songkakul
1032 PMS	Sunday	4:00 – 5:00	Dave Branson
1228 PMS	Sunday	5:00 – 6:00	Charlie Culp
IFC/XML RTAR	Sunday	6:00-6:30	Rob Hitchcock
Research & Program	Sunday	6:30 – 8:30	Jim Watts & Krishnan Gowri
Handbook	Monday	4:30 – 6:30	Mike Pouchak
Main TC	Monday	6:30 - 9:00	Walter Grondzik

Other Business

GPC 20

Duane started this and was going to chair it. This ended when his job changed. The letter ballot was lost by SPLS and we lost a meeting. Our current recommendation was turned down by SPLS although we have not received a formal announcement.

Executive session called.

TC 1.5 restates our recommendation to forward Wayne Dunn as the chair of GPC20. This was the consensus of the ad-hoc participants that met on behalf GPC20 on January 14th 2002. In effort to assure timely establishment of the GPC20 committee we forward Chip Barnaby as an alternate choice for the GPC 20 chair in the event that our first recommendation is not accepted. Moved by Branson, Seconded by Songkakul. 8-0-0.

Adjournment

Motion by Branson/Second by Hitchcock; Motion passed unanimously by voice vote with Chair not voting; adjourned at 8:40 P.M.

Attachment A – Program

TC 1.5: Program Subcommittee Meeting Minutes – (2002 Winter Meeting)

Atlantic City, January 14, 2002

In Attendance: David Branson, Rob Briggs, Tim Dwyer, Pornsak Songakakul, Jim Watts, and Krishnan Gowri (Subcommittee Chair)

Meeting Called to Order: 10:40 a.m. (01/14/02), ACCC Rm. 410

1. Review of Programs at Atlantic City, NJ.
 - (i) **Seminar 14:** Uses and Benefits of Electronic Collaboration, Newsrooms and Groupware
 - (ii) **Symposium AC-02-9:** Tools and Techniques for Calibration of Component Models
2. Attendance Feedback
 - Generally attendance has not been very high in the sessions.
 - The symposium/seminar titles are too geeky and do not have sufficient sizzle to attract the practicing engineers. Hence new program proposals should be worded to appeal to the general society membership.
3. Sub-committee Progress Report (reported by Pornsak Songakakul)
 - Emerging Apps. Subcommittee – Two new seminar topics have been proposed
 - Internet Subcommittee – Proposed one additional topic and removed one.
 - All are identified in the attached spreadsheet.
4. Program Prioritization – Spreadsheet Attached.
 - Summary: Honolulu - (2 unconfirmed symposiums, 2 confirmed seminars and one forum)
 - Chicago – (one symp., 2 sem. and one forum – unconfirmed)
 - Four programs removed from old list
5. All Symposium/Seminar/Forum chairs are requested to submit the program on-line, to be completed by February 8, 2002.

Meeting adjourned at 12:00 p.m.

TC 1.5: Program Subcommittee - Proposed Programs List (Updated 01/14/2002 - Atlantic City)

Rank	Subcommittee	Venue	Type	Title	Chair	Speakers	Notes
1	Internet	Honolulu	Seminar	Internet technology for HVAC/R business Use IT or lose it	Dwyer		
2		Honolulu	Seminar	Terms that your new engineer knows, but you don't	Schwedler	4	Denied for Atlantic City/Title revised
3		Honolulu	Forum	ASHRAE Research Developed Software: Should it be free?	Branson		
-	TC 4.11	Honolulu	Seminar	Self-Configuring Control Systems: Needs, Technology and Potential Benefits	Mike Brambley		Co-sponsored
	EAs	Chicago	Symposium	Interoperable Computer Applications	Branson	3	RP 1032 and Seminar on Interoperable Software papers by Forrester (2) and Hitchcock
		Chicago	Symposium	1017 RP (Akleman and Haberl)	Watts	3	3 papers by Haberl and co
	EAs	Chicago	Seminar	Next generation of AEC application development	Pornsak	3 or 4	
	Internet	Chicago	Seminar	Experiences with Electronic Collaboration on the Teamwork 2001 Project	Dwyer/Branson		
		Chicago	Forum	Should ASHRAE Establish Guidelines for Electronic Media that Contains Manufacturer's Product Information?	Sun/Grondzik		
		Future	Symposium	Computers in HVAC Education	Nelson/ONiel	1hard	
	EAs	Future	Seminar	We are not alone in the universe emerging applications around the world	Forrester	0	
	EAs	Future	Seminar	Apply measured data to measurement and verification	Pornsak		
	EAs	Future	Seminar	Methods for exchanging / integrating data among different HVAC & Control systems and business information systems	Pornsak		
	Internet	Future	Seminar	Seminar.com: Potential & Pitfalls of Moving Business to the Internet	Grondzik	0	
	Internet	Future	Seminar	Cool Stuff that ASHRAE Could be Doing Using the Internet	Grondzik		
	Internet	Future	Seminar	Internet based training	Grondzik		
	Internet	Future	Seminar	Network Applications of Internet, Intranet and Building Automation	Pouchak	4	
	Internet	Future	Forum	Collaborative Web Based Benchmarking	Norford		
		Future	Seminar	A Day in the life of ASHRAE members in the YEAR 2010	Culp		
	Internet	Future	Seminar	Emerging Internet Technologies Bring New Business Opportunities	Dunn, Wayne		
		Remove	Forum	How Should ASHRAE Handle the Age of Electronic Media and Networks	Webster		

TC 1.5: Program Subcommittee - Proposed Programs List (Updated 01/14/2002 - Atlantic City)

Rank	Subcommittee	Venue	Type	Title	Chair	Speakers	Notes
		Remove	Forum	What do you want from ASHRAE's Website?	Haberl		
	Internet	Remove	Seminar	Where is ASHRAE going with the web	Dunn	Has commitments	
	Internet	Remove	Forum	Is there a need for an ASHRAE Standard on Graphics Compatibility	Chuck Coward	c/o Walter Grondzik	

**TC 1.5 Computer Applications
Research Subcommittee Meeting Minutes
ASHRAE Winter Meeting, Atlantic City, NJ
Monday, January 14, 2002**

1. Call to Order/Introductions

The meeting was called to order at 10:01 a.m.

2. 1049 RP Report - "Building System Design Synthesis and Optimization"
No report available.

3. 1032 RP Report - "Identification and Computer-Based Preservation of Building Design and Commissioning Information"
RAC has asked TC1.5 to approve the project final report if appropriate. Otherwise, no report available.

4. 1228 RP Report - "Case Studies of ASHRAE Software Projects Using "The Software Guide" (966 Follow-up)
No report available.

5. ____ WS Report - "Prototype Demonstration of IFC / aecXML Interoperability in Support of HVAC&R Activities"

The Planning subcommittee of RAC returned the RTAR as "rejected". However, their explanation displayed a fundamental lack of understanding on the subject (confused equipment interoperability with design and software interoperability). Based on this, a rewrite of the Work Statement with clear, simple descriptions, minimal jargon, and clear benefits was recommended since the original matched the RTAR rather closely! Rob Hitchcock agreed to rework the original assisted by Jim Watts.

6. Proposed Research

The Emerging Applications subcommittee suggested a research topic on the subject of "Self Configurable Control Systems". Among other tasks, the project would explore other industry applications of such systems, see if they can be applied to HVAC systems, and develop a simple prototype demonstration. TC4.11 is taking the lead on this topic and would like TC1.5 to act as a co-sponsor. Pornsak Songkakul volunteered to act as liaison.

7. RTAR Submissions

RAC also rejected two of the remaining three RTARs submitted for consideration in the 2002 research plan. Considering the current tight status for new research funding, TC's are encouraged to submit no more than two RTARs per year.

- On-line Development of Standards - "Not research", "This is a task for Standards Committee or Staff to do.", "Conventional intercommunication between parties interested in the standards is all that is necessary".
- Retooling the HVAC Education Process to Better Use Computer-Aided Design - "RTAR is too vague - needs more detail", "This is not research. This is an educational activity.", "The new technologies in objective 3 would be quickly outdated. Not enough information given to convince me that the project is worth ASHRAE's support."

8. Adjournment

The meeting was adjourned at 10:39 a.m.

Attachment C – Emerging Applications

TC 1.5 Emerging Applications Subcommittee Meeting Minutes

Monday, January 14th, 7:30 a.m. – 8:00 a.m.
ASHRAE 2002 Winter Meeting, Atlantic City, NJ
ACCC 410

Agenda

1. The meeting was called to order at 7:35 a.m.

2. Welcome/Introductions/Additions to Agenda

There is no addition to agenda.

3. Review of Past/Current Program Activities and their status

Pornsak gave a brief report on the Electronic Collaboration that was held on Sunday morning. The presentations were very organized with four speakers. The contents were well prepared and written. However, there were only 10-12 people attending the session. After the brief report, we discussed potential improvements that we can make to draw a larger number of attendants.

5. Discussion of Future/New Program Topics

The name of the proposed seminar “Computer Buzzword Bingo” was changed to “Computing terms that your new engineers know but you don’t”. The seminar will be submitted for the Honolulu program.

6. Review/Status report of Proposed Research Activities

6. Discussion of New Research Topics

TC 4.11 invites TC 1.5 to participate in a potential new research project called “Self Configurable Control Systems”. The scope of RTAR was briefly described. The topic is conveyed to the Research sub-committee chairman for further discussion during the full TC meeting.

9. Liaison Reports

No reports.

10. Old Business

11. New Business

Charlie Culp has requested that the Emerging Applications sub committee considering the research in the area of database, data mining, and data analysis techniques as part of the emerging application sub-committee focus. The member discussed the issue and thought that it is a good idea. Pornsak will add them to the emerging application focus document and routed to member to review and comment before the Honolulu meeting.

12. Adjourn

The meeting was adjourned at 8:00 a.m.

Minutes

Meeting of the Internet Subcommittee of ASHRAE TC 1.5 (Computer Applications)
Winter Meeting, Atlantic City, Monday 14 January 2002

1. The subcommittee chair, Rob Hitchcock, called the meeting to order at 7:00 am.
2. Attendees introduced themselves (see TC 1.5 master roster for list of attendees).
3. Potential program ideas related to the Internet and HVAC&R interests were discussed, beginning with a review of Internet-related programs on the TC 1.5 Program subcommittee's planning list.
Tim Dwyer passed out literature on the following two program ideas that he had previously suggested.
 - Experiences with electronic collaboration – the Teamwork 2001 project. (Symposium (tentatively), Chicago, Dwyer)
 - Internet technologies for HVAC/R business use; Use IT or lose it. (Seminar, Honolulu, Dwyer/Branson/Gowri/Songkakul)Rob Hitchcock indicated that he would check with Jim Forester on his availability to contribute to a Symposium for the Chicago meeting on the topic of interoperable computer applications. These program ideas were discussed and passed on to the TC 1.5 Program Subcommittee for consideration and prioritization. Other previously recommended programs were also advanced for further consideration.
4. Walter Grondzik reported that a revamped commercialism policy could be in place by the Honolulu meeting, allowing commercial names to appear in presentations and papers. Walter also reported that a reworking of the ASHRAE website was under way, which might include online advertisements and links to manufacturers.
5. The meeting was adjourned at 7:35 am.

Attachment E – Handbook

Handbook Subcommittee

January 14, 2002

Caesar's Tiberus 4:30 – 6:30 P.M. Atlantic City

General

- **Call to order** at 4:30 p.m.
- **Introductions/Sign up Sheet**- TC info passed out by Chair
- **Attendance list** was distributed: Mike Pouchak, Charles Francis (HB Liaison), Mike Galler, Dave Branson
- **Agenda Review**- no revisions made
- **Minutes** – no changes made

Schedule of Milestones-

Updated schedule

Date	Milestone
Feb 12 2002 –	Final TC 1.5 vote to approve chapter & send to HB committee liaison (Francis).

Charles Francis, Liaison to the Handbook committee introduced himself and explained the Electronic Handbook survey.

Chapter Drafts and previous Chapter products were reviewed and discussed.

Final action items:

1. Distribute current electronic draft of Computer application Handbook for distribution by TC 1.5 secretary immediately.
2. Incorporate final edits from contributors by January 21, 2002.
3. Secretary to send out final draft for full committee vote on Tuesday February 5, 2002.
4. Secretary to tally votes and close ballot by Tuesday February 12, 2002.
5. Send approved final draft to Charles Francis with "ASHRAE Handbook Chapter Approval Checklist" completed.

Input revisions in Word 6.0 format to mike.pouchak@honeywell.com –
TC 1.5 web handbook site: http://www.ashraex.org/tc1_5/handbook.htm

Adjournment at 5:30 p.m.

Mike Pouchak, Chair

