

ASHRAE TC ACTIVITIES SHEET**DATE: June 24th 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	Emerging Apps.	Handbook	Internet
Vladimir Bazjanac	Lawrence Berkeley National Laboratory		X					
Bruce Billedeaux	Armstrong Service. Inc.		X			X		X
David Bornside	Siemens Building Technologies		X					
Mike Brambley	PNNL		X					
David Branson	Compliance Services Group, Inc.		X	X	X	X		X
J. Patrick Carpenter	Kling Lindquist		X					
Charlie Culp	Texas A&M			X	X			
W. Stuart Dols	NIST		X					
Wayne Dunn	Sunbelt Solutions		X					
Tim Dwyer	South Bank University London		X	X	X	X		X
Mike Galler	NIST		X			X	X	X
Krishnan Gowri	PNNL		X				X	
Walter Grondzik	Florida A&M University		X	X	X	X	X	X
Rob Hitchcock	Lawrence Berkeley National Lab		X	X	X	X		X
Mark Hydeman	Taylor Engineering			X	X		X	
Mark Modera	Aeroseal		X				X	
Ron Nelson	Iowa State University		X	X	X			
Bob Old	Siemens Building Technologies		X	X	X		X	
Vernon Peppers	Peppers Engineering		X					
Eric Peyer	Penn State University		X					
Michael Pouchak	Honeywell, Inc.		X	X	X		X	
J Patrick Quinn	Q&A Consulting Group		X	X	X			

First and Last Names	Affiliation	Email	TC	Research	Program	Emerging Aps.	Handbook	Internet
Mick Schwedler	Trane		X					
Pornsak Songkakul	Siemens Building Technologies		X	X	X	X		X
Wayne Webster			X					

TC MEETING SCHEDULE

Location, past 12 mo.	Date	Location, next 12 mo.	Date
Atlantic City	Jan 2002	Chicago	Jan 2003
Honolulu	Jun 2002	Kansas City	Jun 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 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.	Yes	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 HVAC Applications	Computer Applications	38	3-8-2002	Yes, TC 2/13/2002	Charles Francis, Trane)

STANDARDS ACTIVITIES

None

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

Title	When Presented
1017 RP (Akleman and Haberl) – Jim Watts	Future
1032 TRP - Interoperable Computer Applications – Dave Branson	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	Future
Interoperable Computer Applications – Branson	Chicago (1/03)
Symposium AC-02-9: Tools and Techniques for Calibration of Component Models - Agami Reddy	Atlantic City 1/02
Computers and HVAC Education – Nelson	Chicago 01/99

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
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 - Songkakul	Future
Computer Security – Pouchak	Chicago (1/03)
Apply measured data to measurement and verification – Pornsak	Chicago (1/03)
Tools and Techniques for Sustainable Design – Dwyer	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

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? - Grondzik	Chicago (1/03)
ASHRAE Research Developed Software: Should it be free? – Hydeman	Chicago (1/03)
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 Standards? - Mark Hydeman	Minneapolis 6/00
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

JOURNAL PUBLICATIONS (PAST 3 YRS, PRESENT, PLANNED)

Title	When published
What HVAC Applications Would Benefit from Computer-Aided Instruction - Culp	TBD

SUBMITTED BY: Mark Hydeman-- TC 1.5 Secretary

TC 1.5 (Computer Applications) Minutes

Honolulu HI 06/2002

Monday June 24, 2002 6:30pm-9:00pm

General

- **Call to order** at 6:30pm.
- **Introductions/Sign up sheet** – TC info passed out by Chair
- **Agenda Review** –
- **Roll Call**

Last Name	First Name	Affiliation	In Attendance
Barrett	Duane	Bentley Systems, Incorporated	N
Briggs	Rob	Battelle Pacific Northwest Lab	N
Dwyer	Tim	South Bank University London	Y
Galler	Mike	NIST	Y
Grondzik	Walter	Florida A&M University	Y
Hitchcock	Rob	Lawrence Berkeley National Lab	Y
Hydeman	Mark	Taylor Engineering	Y
Peppers	Vernon	Peppers Engineering	Y
Pouchak	Michael	Honeywell, Inc.	Y
Songkakul	Pornsak	Siemens Building Technologies	Y
Watts	James	Ingersoll-Rand Energy Systems	N

Quorum established 8 of 12

- **Dinner at 9:30pm Sergio’s Italian at Hilton Hawaiian Village.**
- **Atlanta Minutes Approval** –

Motion for approval of minutes by Branson second by Hitchcock; Motion passed by unanimous voice vote with Chair not voting

7-0-0 CNV

Chair’s Report – Walter Grodzik

Announcements – Announcement from ALI they are looking for course ideas. You can submit ideas, participate as a reviewer and/or provide unsolicited proposals. They want a liaison from every TC. Hydeman is the liaison.

Handbook the CD is the official version of the Handbook. We can submit revisions one a year. This is similar to continuous maintenance. April 1st is the date for submission of comments.

Journal is always looking for good articles. TC 1.5 members should consider items for the Technology Corner. They would like software comparisons. Contact Fred Turner, Editor at FTurner@ashrae.org if you want to submit an article.

95% of the submitted programs for HI were submitted on-line. This is the de-facto means for submitting programs. They are starting a space called “Manuscript Central” for processing symposium chairs. This is targeted to be available in August for Summer 02 programs. August 2nd is the date for submitting programs for Chicago.

Research should be looking out for 5yrs to 10yrs.

TC's may move their website to ASHRAE's website. TC's can link from this site. There is a template for TC websites if you want to use it.

Honors and Awards is seeking nominations for a technical achievement award. This is for special efforts over the past year. Submittals should be given to our TAC Section Head, Mark Modera. Examples include great effort for handbook or special technical work. There is only one award from Society. Our TAC Section Head is our proponent for this award.

Standards Action notices are posted on ASHRAE's website.

TCs are posting seminars on their website. We should post ours.

ACTION ITEM: Krishnan Gowri should make sure that seminar and symposium presentations are sent to Ron Nelson.

ASHRAE is seeking comments on the new commercialism policy. A copy of this was passed out. It was approved at the BOD at this meeting.

Action Item Review -

Website: Public Flogging list for not sending updates to Ron Nelson for posting. Flogees include: Khrishnan Gowri (programs), Jim Watts (Research), and Rob Hitchcock (Internet).

Handbook Letter: Walter wrote a letter to the Handbook Committee offering TC 1.5 support for the e-Handbook. Dave Branson, Walter Grondzik and Vernon Peppers offered to represent TC 1.5 in providing support.

Mick has a list of subcommittees that are interested in having handbook enhancements. TC 1.5 could offer help to these people.

Mark Modera pointed out that ASHRAE is a Society that makes money with presentations and books. Electronic media is providing challenges to Society in this regard: you can download seminar slides from TC websites that are more current than symposium papers.

Dave Branson has put together 5 business scenarios for production and distribution of the handbook CD. Ask him if you are interested in a copy.

Brambly and Dunn argued that ASHRAE should consider the elasticity in the pricing of their products. E.G. if they dropped the price of the handbook and/or membership they should see more interest.

Motion: The chair of TC 1.5 shall write a letter to the Handbook Committee (cc SBO Committee) expressing the TC's concern at the delay in adopting available and widely used electronic enhancements and technologies for the eHandbook. Furthermore the Handbook Committee shall provide guidelines for these enhancements. Motion by Branson, Seconded by Pouchak. Motion passes 6-0-0 CNV.

Background: The Handbook committee is saying that they have to slow down as it is moving too fast. TC 1.5 members are wondering what is moving too fast.

Committee Membership (Currently 11). Individuals interested in membership should contact Walter Grondzik, Chair.

Individuals rolling off the membership roster at this meeting: Rob Briggs (emergency due to personal reasons), Dave Branson, Mark Hydeman (emergency due to membership rules), Brian Kammers, Ron Nelson

Rolling on: Krishnan Gowri (emergency roster change to replace Rob Briggs), Vernon Peppers, Mike Galler and Mick Schwedler (emergency roster change to fill in for Mark Hydeman).

If you want a letter from Bill Coad to your employer sign the sheet (passed around).

Mark Modera noted that his section report was included in the previous discussions.

Subcommittee Reports

Program –Krishnan Gowri (Attachment A)

Our programs at HI were well attended. Some felt that our presentations are too geeky.

APC has added three questions to the program evaluation forms regarding commercialization.

Program prioritization accepted moved by Hydeman, seconded by Branson 6-0-0 CNV

Research – Walter Grondzik (Jim Watts was not at the meeting)

IFCXML RTAR (Hitchcock). At the last meeting Jim Watts and Rob Hitchcock reworked the work statement. Rob met the deadline and submitted it to Jim. He has not heard back from Jim.

Mark Modera recommends that you go to the Research Committee meeting when they are scheduled to discuss the work statement. Ask the chair of TC 1.8 about the process, he has it wired.

TRP 1049 (Nelson). Sponsored by 4.7 Building Energy Calculations. This is a high risk project using genetic algorithms. The program picks components and builds up HVAC systems. They have been making great progress. The PMS granted them a 3-4 month no-cost extension.

TRP 1032 (Branson). Deliverables submitted to ASHRAE and are in review. Yesterday received a form from ASHRAE which needs to be filled out.

TRP 1228 No report, Charlie Culp was missing.

Jeff Haberl's URP was passed on to Jim Watts for review.

Emerging Applications/Internet – Pornsak Songkakul & Rob Hitchcock (Attachment B)

Low turnout at the last two meetings. In Atlantic City this was probably due to the early time of the meeting. Hawaii has its own unique problems. Options to increase attendance:

- Combining Internet & Emerging Applications
- Moving joint committee time adjacent to Program/Research

It could be called the "Internet and Emerging Applications subcommittee meetings." Create a joint meeting with 1-1/2 hour slot adjacent to the Programs/Research.

This decision was tabled for a few meetings. We decided to hold joint subcommittee meetings in Chicago and see what the interest is.

See attached meeting minutes.

Handbook – Mike Pouchak (Attachment C)

See attached meeting minutes.

Standards – Rob Briggs

The Standards Committee did not meet. As Rob is rolling off the membership we will dissolve the Standards Committee for the time being.

Webmaster report (Ron Nelson)

Ron says, "Send me your stuff"

Action Item: All TC Subcommittee Chairs shall send their minutes and other information to Ron to post on the TC 1.5 website.

Liaisons

GPC 20 – XML Definitions for HVAC and R: Wayne Dunn, Chair. The GPC had their first official meeting and confirmed the structure that had been set forth. Wayne feels that work is moving ahead and that something will be done by next June.

Peng Xu is the membership chair. They are very interested in getting members. Send Peng an email at pxu@lbl.gov if you are interest in joining the Guideline Committee.

Website <http://www.eproject.net> or <http://www.buildfile.com>

SPC 134 – Vernon Peppers. They are going forward with 2 unresolved commenters (Vernon is one). This is graphic symbols. An outstanding issue is that ISA already has a standard for instrument symbols.

IAI – Rob Hitchcock. The IFC model enhancement (BS-8) is making good progress with the HVAC model for energy simulation. They hope to extend this to other areas of HVAC design. **SCAN ATTACHMENT**.

PR and marketing. All of the major CAD vendors have committed to adopting IFC 2X.

Almost 100 members. Including CAD, energy simulation, code software and others. There is interested in doing automated code checking and compliance from electronic submission of plans.

Organizationally. The IAI is now an independent council in NIBBs. This reduces costs.

Ad-Hoc Committee on ASHRAE's website. Mark Hydeman was a member of this committee chaired by Steve Ivesdal (ASHRAE Vice-President). They are recommending formation of a permanent Society committee to deal with issues of the website and database. The Ad-Hoc committee recommended adoption of the Roadmap for ASHRAE's Website (from the Electronic Communications Subcommittee of Special Publications) as the roadmap for ASHRAE's website and database. A copy of the roadmap is posted on the site, <http://www.ashrae.org/about/websitedev.htm>. Comments on this document should be sent to Jim Eleson, Incoming chair of Special Publications, jselleson@facstaff.wisc.edu.

Ad-Hoc Committee on ASHRAE's commercialism policy. Dave Branson was a member, Mark Hydeman was a gadfly. A copy of the proposed policy was circulated. It was adopted today at the BOD meeting. Get copy from Branson

Special Publication's Electronic Communication Subcommittee met in Honolulu to collect comments on the Roadmap for forwarding to the new website committee. They decided to disband in anticipation of the new committee's formation. *[Secretary's note. The BOD decided after the TC 1.5 meeting not to form a new committee. The Electronic Communications Subcommittee remains the vessel for comments on the Roadmap until further notice]*

Old Business

The following motion was sent out by email on February 8th, 2002. All ballots were received by February 15th, 2002.

"TC 1.5 approves the attached file for submission to the Handbook Committee for Chapter 38 of the 2003 Applications Handbook" Moved by Pouchak, Seconded by Hydeman. Motion passed 11-0-0.

The result of the ballot was conveyed to ASHRAE staff on March 1st.

New Business

We need to find a new handbook committee chair. Volunteers should contact Walter Grondzik at GZIK@POLARIS.NET.

TC 5.2 is seeking reviewers for the T-Method duct design program. Wayne Dunn offered a soon to be former employee, Krishnan Gowri and possibly an ex-friend of Mick's were also volunteered.

Action item for TC members to bring program ideas forward to Krishnan Gowri.

Mike Brambly is going on to the Program Committee. The PC wants a greater percentage of the programs that directly impact the practice of engineering.

- Meeting times for Chicago.

IE/EA 5-6:30pm

P/R 6:30-8:30pm

IFC/XML RTAR 6-6:30pm

Handbook 6-6:30pm Monday

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

Adjournment

Motion by Sokokul/Second by Nelson; Motion passed unanimously by voice vote with Chair not voting; adjourned at 8:55pm.

Attachment A – Program

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

Honolulu, June 24, 2002

In Attendance: David Branson, Charlie Culp, Tim Dwyer, Walter Grondzik, Rob Hitchcock, Mark Hydeman, Ron Nelson, Bob Old, Mike Pouchak, Pornsak Songakakul, Patric Quinn (guest), and Krishnan Gowri (Subcommittee Chair)

Meeting Called to Order: 6:30 p.m. (06/23/02), Hawaii Convention Centre, Rm. 319B

1. Review of Programs at Atlantic City, NJ.

(i) **Seminar 14:** Uses and Benefits of Electronic Collaboration, Newsrooms and Groupware

Response was good. However, the attendance was less than anticipated due to poor timing and conflict with TC meeting.

(ii) **Symposium AC-02-9:** Tools and Techniques for Calibration of Component Models

Mark reports lively discussion on modelling of chiller performance. The symposium was well attended.

2. Hawaii Meetings: Seminar 6 and Seminar 9 were held on Sunday 06/23/02. The seminars were well attended and the response was very good. We will have full update on the response during Chicago meeting. Some comments from the response forms:

- Attendees still felt the seminar was too geeky.

- Attendees felt that there is misapplication of commercialism policy blanking out the web addresses.

TC 1.5 is co-sponsoring Seminar no. 36 on Self-Configuring Controls, scheduled for Wed. 06/26, 8:00 a.m.

3. Commercialism policy response:

a. Did you find any blatant commercialism that you found offensive or deterred from the presentation? **No**

b. Did inclusion of commercial names for the purpose of clarifying the program improve the transfer of information? **Yes**

c. Should the APC go farther to allow more commercialism or scale back? **Do allow more**

4. Subcommittee reports – with less attendance and Internet/Emerging applications both focusing on future of computer technologies – it has been proposed to combine these two and reschedule the subcommittee meeting with Program/Research.

5. **Chicago Symposium Status** – Dave Branson has three papers and is soliciting reviewers. (Papers are based on RP-1032) Reviews need to be completed by August 2. TC 9.9 Building Commissioning will co-sponsor the symposium – Walter Grondzik is the liaison for TC 9.9 co-sponsorship.

6. **Chicago Meeting Proposals** - The programs list was reviewed and sessions with potential presenters were identified for the Chicago meeting. One symposium, four seminars and two forums were proposed for the Chicago meeting. All members had two votes to rank the programs. The prioritization is listed in the attached spreadsheet. All session chairs of ranked programs are requested to submit the information by August 2, 2002.

Meeting adjourned at 8:30 p.m.

Rank	Subcommittee	Venue	Type	Title	Chair
1	EAs	Chicago (1/03)	Symposium	Interoperable Computer Applications	Branson
2		Chicago (1/03)	Seminar	Computer Security	Pouchak
3	EAs	Chicago (1/03)	Seminar	Apply measured data to measurement and verification	Pornsak
4		Chicago (1/03)	Seminar	Tools and Techniques for Sustainable Design	Dwyer
5		Chicago (1/03)	Forum	Should ASHRAE Establish Guidelines for Electronic Media that Contains Manufacturer's Product Information?	Grondzik
6	Internet	Chicago (1/03)	Seminar	Experiences with Electronic Collaboration on the Teamwork 2001 Project	Dwyer
7		Chicago (1/03)	Forum	ASHRAE Research Developed Software: Should it be free?	Hydeman
		Kansas City (6/03)	Symposium	1017 RP (Akleman and Haberl)	Watts
	EAs	Kansas City (6/03)	Seminar	Next generation of AEC application development	Pornsak
		Kansas City (6/03)	Seminar	Experiences in distance learning: Leveraging curriculum through media	Pouchak
		Future	Symposium	Computers in HVAC Education	Nelson/ONiel
	EAs	Future	Seminar	We are not alone in the universe emerging applications around the world	Forrester
	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
	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
	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
	Internet	Honolulu (6/02)	Seminar	Internet technology for HVAC/R business Use IT or lose it	Dwyer

Rank	Subcommittee	Venue	Type	Title	Chair
		Honolulu (6/02)	Seminar	Terms that your new engineer knows, but you don't	Schwedler
	TC 4.11	Honolulu (6/02)	Seminar	Self-Configuring Control Systems: Needs, Technology and Potential Benefits	Mike Brambley
		Atlantic City 1/02	Seminar	Uses and Benefits of Electronic Collaboration, Newsrooms and Groupware	Mike Pouchak
		Atlantic City 1/02	Symposium	Tools and Techniques for Calibration of Component Models	Agami Reddy
		Cincinnati 6/01	Seminar	Internet for Global Working	Tim Dwyer
		Cincinnati 6/01	Seminar	Future NET Gains for the AE Office	Brian Kammers
		Cincinnati 6/01	Seminar	Pattern-Recognition-Based Fault Detection and Diagnostics for Building Operation	Mike Brambley
		Atlanta 1/01	Seminar	Interoperable Computer Applications for the HVAC Industry	Mark Hydeman
		Atlanta 1/01	Forum	What Does the ASHRAE Membership Need from the Computer Applications Handbook?	Mike Pouchak
		Minneapolis 6/00	Forum	How Should We Apply Electronic Media to the Development and Implementation of Standards?	Mark Hydeman
		Minneapolis 6/00	Forum	Sensors for HVAC: Problems, Needs & Technology	Mike Brambley
		Minneapolis 6/00	Seminar	What is the Future Relationship Between DDC and the Web?	Dave Branson
		Minneapolis 6/00	Seminar	Applications of Electronic Media for the Development and Implementation of Codes and Standards	Mark Hydeman

Attachment B – Emerging Applications & Internet**TC 1.5 Internet/Emerging Applications Subcommittee Meeting Minutes**Sunday, June 23rd, 3:00 to 4:00 p.m.

ASHRAE 2002 Annual Meeting, Honolulu, Hawaii

HCC 319B

Agenda**1. The meeting was called to order at 3:15 p.m.****2. Welcome/Introductions/Additions to Agenda**

Since the Seminar 9 on the Internet tool organized by TC 1.5 were taken place from 1:00 to 3:00 p.m., the Internet and Emerging application sub-committee decided to combine the meeting. However, we had such a low turn out of participants that we could not conduct the usual business. Therefore, we spent about 45 minutes discussing how we could improve and increase the number of participants in these two sub-committees. The following options were discussed:

A: Move the sub-committee meeting time closer to the Program and Research sub-committee meeting time

At this meeting, the Internet and Emerging Application sub-committee meetings were scheduled in the early afternoon and followed by the PMS and RTAR meetings. We felt that if we move the meeting time next to the Program and Research meeting we would be able to bring in more participants. For the Chicago meeting, we have proposed that the Internet and Emerging Application sub-committee meet for one and a half hour before the Program and Research.

B: Combine the Internet and Emerging Application into the same time slot

Since the discussion on the Internet and Emerging applications are pretty much focus on similar topics, we proposed to combine the two meeting into to reduce duplicate discussion and to generate more discussion and program ideas.

C: Shift the focus of the sub-committee to the hardware and IT infrastructure

2-3 years ago both the Internet and Emerging Applications were considered technological advanced areas that had not been fully understood by majority of the ASHRAE member. However, the situation has changed. Both Internet and PC are considered ubiquitous just like hammers and nails, all the member have and already used ones. In the area of emerging applications, the advanced software technology and new programming development paradigm (including Microsoft .NET and Object Oriented Programming) seems to be the areas that we can bring lots of information to the ASHRAE member. Unfortunately, discussion on such topics only appeals to only a small portion of the ASHRAE population. Participants in the discussion felt that the hardware and IT infrastructure such as network and issues surrounding the controllers that have to co-exist with the existing IT infrastructure would generate interests from the ASHRAE member. We would have a chance to test this thinking with the computer security seminar that the TC 1.5 plans to propose for the Chicago meeting.

D: Find trends and needs by attending other TC sub-committee meetings

Instead of making educated guess on what the ASHRAE member wants as information, it might be possible to figure out the needs of other TC by attending their sub-committee meetings. We will continue discussing this option in Chicago.

In summary, the two sub-committee meetings did not have enough participants to conduct the usual business. For the Chicago meeting, we plan to keep the two sub-committee structures and move the meeting closer to the Program and Research with the hope to continue generating good programs and researches for TC 1.5 and the ASHRAE community as a whole.

4. The meeting was adjourned at 4:00 p.m.

Rob Hitchcock, Pornsak Songkakul

Attachment C – Handbook

TC 1.5 Handbook Subcommittee

June 24, 2002

TC 1.5 Handbook

TC 1.5 Computer Applications (25/25) Monday 5:30-6:00p 323A

Mike Pouchak, Handbook Chair

- **Call to order** at 6:10 p.m.
- **Introductions/Sign up Sheet-** TC info passed out by Chair
- **Attendance list** was distributed
- **Agenda Review-** no revisions made
- **Minutes** – no changes made

- **Schedule of Milestones-**

Completed schedule – Final draft of Computer application handbook chapter approved by TC 1.5 main committee and forwarded to Charles Francis with ASHRAE Handbook Chapter Approval Checklist complete.

- **Future Revisions-** no feedback from Handbook central committee, TC 1.5 Chair, or Liaison on electronic revision needs. If revisions are pursued, the affected areas would be relatively small. Based on feedback from the Electronic Issues Update Seminar 7 (Sunday 1 p.m) the general consensus from the Handbook committee is that the electronic format will be pursued at a less rapid pace.
- **Congratulations** to the entire Handbook committee for the significant effort of over 70% new material and 200 % increase in submitted material. Thanks were offered to major contributors to the Handbook including Mike Pouchak, Computer Hw/SW contributor and Handbook Chair, Dave Branson Internet sections contribution, Mark Hydeman, HVAC applications contributions, and Rob Hitchcock, Interoperability contributions. Also thanks to Tim Dwyer & Mike Galler for edits, and Natacha Nicastro for final draft review.

- **Adjournment at 6:20 p.m.**

Mike Pouchak, Chair