

PYRAMID PRESS

ASHRAE – Memphis Chapter
www.angelfire.com/tn/ashrae/

March, 2006

LUNCH MEETING 11:30 TUESDAY,
MARCH 14, 2006, KEMMONS
WILSON CENTER HOLIDAY INN, 3700
CENTRAL AVENUE

VAV SELECTION FOR OCCUPANT ACCEPTANCE BY: DAN INT-HOUT III

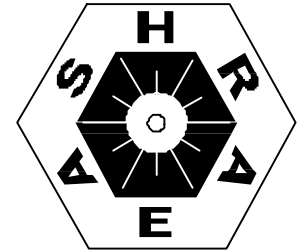
In order to meet the increased expectations of building occupants, designers must be aware of the conflicts between first cost economics, occupant productivity and life cycle costs. Buildings that do not meet the needs of the occupants often result in expensive redesign or worse, result in lawsuits against all parties involved. Recent court cases make it imperative that designers understand the changing 'rules' of the road.

Dan Int-Hout, Chief Engineer, Krueger, is responsible for the presentation of technical data and advanced application engineering for the Grilles, Registers and Diffusers, as well as the VAV air terminals, produced by Krueger.

Dan has been in the Air Distribution research and design business since 1973, and has a Masters in Business Management from Central Michigan Univ., and a Bachelor in Biology & Physics from Denison University.

Dan originally joined Krueger in 1981, but has had several other jobs in the industry, including Owens Corning Fiberglas, Carrier, Titus and Environmental Technologies, in engineering, marketing and product research roles.

Dan has written over 35 technical papers and articles on VAV system performance, acoustics, air diffusion, controls and occupant comfort. He was recently Chairman of both ASHRAE Technical and Standards Committees on Thermal Comfort, is a past Chairman of several other related ASHRAE Technical and Standards Committees, as well as ASHRAE Standards, Technical Activities (TAC) & Environmental Health Committees. He received the ASHRAE Distinguished Service Award in 1993. Dan is currently the Chairman of the ARI committee on Applied Acoustics (885) and Chair of ISO 205 US Panel on Thermal Comfort.



Memphis Chapter Contacts

PRESIDENT:

Evans Jack: 324-6610
Fax: 324-6612

PRESIDENT ELECT:

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Cell: 508-4899
Fax: 224-4331

VICE PRESIDENT:

John Colmer: 761-0885
Fax: 761-2943

SECRETARY:

Brent Wiseman:
Fax:

TREASURER:

Brad Grammar:
Fax:

MEMBERSHIP:

Jason Snyder: 683-3900
Fax: 683-3990

NEWSLETTER:

Denver Glazier: 383-5717
Fax: 383-5758



THE PRESIDENT'S CORNER

THE HISTORIAN

JOSEPH RAYMOND (J.R.) ANDERSON

Born: October 20, 1935 in Topeka, Kansas
Wife; Hazel Anderson
Children; Mark, Sharon, Susan, Keith

PRESENT EMPLOYMENT

Anderson Engineering, LLC
2514 Rosehaven, Germantown TN 38138

Likes about current work: *“The ability to be active in the various technical societies: ASHRAE, Building Commissioning Association, and the US Green Building Council. Interested in the technical changes in the building industry with special interest in the HVAC aspect. Always have enjoyed something new and the practice of consulting has provided a great variation of opportunities. Like to work and be involved and hope to do so until health prevents continued participation.”*

EDUCATION

- Attended Wichita State University 1953-954
- Graduate of Georgia Institute of Technology with a Bachelor of Mechanical Engineering degree, 1958
- Graduate of Georgia Institute of Technology with a Master of Science degree in Industrial Management, 1962

WORK EXPERIENCE

- 58-60 The Boeing Company, Field Engineer
- 62-63 Adrian Finance Co., Executive Vice President Mortgage Loans Department
- 63-67 Deering Milliken, Plant Engineer
- 67-69 Howmet Corporation, Business Planning Group
- 69-77 Scott Machine Tool, Machine Tool Sales
- 77-79 Doyle Metal Sales, Sales Engineer
- 79 Manufacturing Services, Manufacturing Rep.
- 79-81 Southern Fabricators, Plant Engineer
- 81-82 Varco Pruden Corp, Mfg. Engineer
- 82-84 Green & Associates, Sales Engineer
- 84 Computer Graphics, Technology CADD Services
- 84-85 CLB Enterprises, Project Manager
- 85 Industrial Machine, Sales Engineer
- 85 All Star Products, Sales Engineer
- 86-87 Scienco Division, CAD Engineer
- 87-88 Great Dane Trailers, Mechanical Engineer
- 88-89 Kemmons Wilson, Inc., CAD Design Engineer
- 89-92 Delta Process Management, Mechanical Eng.
- 92- Present Anderson Engineering, LLC, Owner



MEMBER NOTICES

ASHRAE MEMBERSHIP GROWTH

I am pleased to hear you have colleagues interested in becoming members of ASHRAE. Please inform them to log on to <http://www.ashrae.org> to fill out an electronic application. Once at the site click on "Join ASHRAE" on the left side of the page then scroll down to the appropriate application for the desired membership grade (This link will take you directly to the membership application selection page - <http://www.ashrae.org/template/AboutLinkLanding/category/1872.jsessionid=aaaglpHers1BeQ>) . Also, have each interested colleague go to the Memphis Chapter Internet site (<http://www.angelfire.com/tn/ashrae/page2.html>) and fill out a local chapter application. If the prospective members do not have internet access just have them contact me directly and give me their mailing address for me to send hard copies.

Total dues are \$150 National and \$85 local. Local dues are only \$15 if they will not attend the lunch meetings.

Please feel free to call or write with any questions.

Jason Snyder, P.E.
(ASHRAE Membership Promotion Chairman)
Mechanical Division
Ellers, Oakley, Chester, and Rike, Inc.
5100 Poplar, Suite 1600
Memphis, TN 38137-1601
Phone: Memphis - (901) 683-3900; Jackson - (731) 664-7440
Fax: Memphis - (901) 683-3990; Jackson - (901) 531-8422
Email: jsnyder@eocr-inc.com

PROGRAMS

- **March 14th, 2006** – Kemmons Wilson Center, University of Memphis, 3700 Central Ave. Speaker – Daniel Int-Hout ASHRAE Distinguished Lecturer
- **April 19th, 2006** – Kemmons Wilson Center, University of Memphis, 3700 Central Ave. Topic – Sustainability and the Building Environment
- **May 9th, 2006** – Kemmons Wilson Center, University of Memphis, 3700 Central Ave. Topic – Panel Discussion TBA.



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SPEAKER SUBJECTS

In order to meet the increased expectations of building occupants, designers must be aware of the conflicts between first cost economics, occupant productivity and life cycle costs. Buildings that do not meet the needs of the occupants often result in expensive redesign or worse, result in lawsuits against all parties involved. Recent court cases make it imperative that designers understand the changing 'rules' of the road.

Subjects:

1. Air Distribution: Selecting components and system parameters for effective air mixing. New requirements need to be understood.
2. Thermal Comfort: Determining optimum occupant comfort strategies. ASHRAE Standard 55 has been revised.
3. Acoustics: Accurately predicting end use environments. A new classroom acoustical requirement needs to be understood.
4. IAQ: The changing face of ASHRAE Standard 62, and upcoming developments.
5. UFAD: Underfloor Air Distribution is becoming a hot design choice in many areas. Pros and Cons will be discussed.
6. With the large number of VAV terminals available, including ECM motors for all series boxes, we are getting a number of questions regarding the proper selection and interpretation of VAV terminal specifications. I will discuss proper engineering specifications and designs for this broad product range, with updates on the latest rules and knowledge regarding VAV box type, linings, accessories and air flow limitations.
7. Additionally, the latest Industry understandings of the proper application of overhead heat to meet the new changes to Standard 62.1, and how LEED is changed with V2.2, will be discussed.

HISTORIAN CONT.

CURRENT INVOLVEMENT

- Little Rock area as the Commissioning Authority for the New Bethel Middle School, a 120,000 sq ft facility and the New Bryant Elementary School, 65,000 sq ft. which is in the Schematic Phase of Design. Both facilities are targeted for LEED rating

AREA OF PRIMARY INTEREST – COMMISSIONING

- Accredited Professional, US Green Building Council
- Project and Commissioning Support Engineer for the St Jude IRC building in Memphis, Tennessee.
- Building Commissioning Association member since '99.
- Presented a paper on Building Commissioning for St Jude Hospital at an ASHRAE winter meeting.

ENGINEERING SOCIETY INVOLVEMENT

- Past president of the Memphis Chapter of ASHRAE. Also served as secretary and vice president.
- Presently serving as the Chair of the Technical, Energy, and Governmental Affairs Committee (TEGA)
- Presently serves member of the Board of Governors of the local Memphis Chapter.
- Presently ASHRAE Region VII Vice Chair of Chapter Technical Transfer Committee (TEGA)
- Presently serves on the ASHRAE TC 7.9 Building Commissioning Technical Committee as the Secretary and a voting member of the ASHRAE Committee. The committee recently published ASHRAE Guideline 0-2005, "The Commissioning Process".
- Presently serves as a Corresponding member of TC 1.7 Operations and Maintenance; Management; TC 4.1 Load Calculations; TC 4.7 Energy Calculations

OTHER

- Founding member of the Society of Computer Graphics Association in Memphis
- Certified by examination as a Test and Balance Technician. National Environmental Balancing Bureau in Air and Water Balancing.
- Member of the Society of Manufacturing engineers for 20 years, serving in all local officer capacities, including President.
- Member of the US Green Building Council
- Corresponding member of the New Construction Energy and Atmosphere Committee

PERSONAL COMMITMENTS

- Active member of The Church of the Holy Spirit
- Serves as a Lector and Eucharistic Minister
- Past President of the Board of Directors of Birthright



ASHRAE



PDH Meeting Tuesday, March 14 8 am–11am

DAN INT-HOUT III ASHRAE Distinguished Lecturer
Chief Engineer- Krueger
Richardson, Tx.

Date: 3/14/2006

Time: 8:00—11:00

Dan Int-Hout, Chief Engineer, Krueger, is responsible for the presentation of technical data and advanced application engineering for the Grilles, Registers and Diffusers, as well as the VAV air terminals, produced by Krueger.

**Location:
Kemmons
Wilson Center
Holiday Inn
Univ of Memphis**

Dan has been in the Air Distribution research and design business since 1973, and has a Masters in Business Management from Central Michigan Univ., and a Bachelor in Biology & Physics from Denison University.

Topic: **VAV selection for Occupant Acceptance**

Overview:

In order to meet the increased expectations of building occupants, designers must be aware of the conflicts between first cost economics, occupant productivity and life cycle costs. Buildings that do not meet the needs of the occupants often result in expensive redesign or worse, result in lawsuits against all parties involved. Recent court cases make it imperative that designers understand the changing 'rules' of the road.

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To remove your name from our mailing list, please [click here](#).

Questions or comments? E-mail us at someone@example.com or call 555-555-5555

YOU'RE INVITED!

COMPLIMENTARY ADMISSION

KITCHEN VENTILATION SEMINAR, PART IV

MARCH 14, 2006

NEW AND REVISED FOR 2006

AGENDA

REGISTRATION & REFRESHMENTS	8:00 AM
BRIEF HISTORY OF KITCHEN VENTILATION	8:15 AM
RESEARCH & IMC CODE UPDATE	8:30 AM
EXHAUST DUCTS—CODES ISSUES & APPLICATIONS	9:15 AM
TECHNOLOGIES THAT SUPPORT KITCHEN VENTILATION	9:45 AM
INTEGRATED CKV DESIGN CONCEPT	11:15 AM
ENERGY MANAGEMENT AND CASE STUDIES	11:35 AM
COMPLIMENTARY LUNCH	12:15 PM

LEARN ESSENTIAL INFORMATION ABOUT KITCHEN VENTILATION

Integrated heating, cooling, and ventilation design vision.	Makeup air effects study and test results
Comfort issues related to control of temperature and humidity.	Heating/cooling balance point and HVAC economizer operation.
New perspective on humidity load: Ventilation Load Index	Issues with negative air balance.
Makeup air design issues and component selection.	Outdoor air requirement from ASHRAE Standard 62.
Design improvements—end panels and hood overhang.	Case studies on new designs and retrofits.
Makeup air heating efficiency issues (advancing of direct-fired gas heating).	Outdoor air requirement from ASHRAE Standard 62 and other codes.

FEATURED SPEAKERS



Doug Horton is an independent management, communications, and technology consultant, with over 30 years of government, corporate, and consulting

experience.

In the food service area, he consults on equipment and market development, technology assessment, purchasing, operations analysis, organization development, communications, and energy management.

He is a popular speaker on energy and foodservice topics at professional meetings and seminars; including those sponsored by industry trade organizations, energy companies, and manufacturers. Recently, he has been presenting the results of industry research on commercial kitchen ventilation to national audiences.



Bob Luddy relocated to Raleigh in 1976 where he opened Atlantic Fire Systems in a one-room facility.

Recognizing the demand for a quality manufacturer of

kitchen ventilation equipment, Bob purchased a sheet metal shop in 1981 and transformed that into Captive-Aire Systems. Captive-Aire, with sales reaching over \$135 million in 2004, now employs over 450 people with 50 offices nationwide.

Bob continues to apply his entrepreneurial skills not only in his business but also in the public sector.

His support of North Carolina entrepreneurs and the free market system are demonstrated through his roles in the following areas: Board of Directors & Founder, The Franklin Academy; Board of Directors, John Locke Foundation; Founder & Developer, Franklin Park.

SEMINAR LOCATION

HILTON MEMPHIS

939 RIDGE LAKE BLVD

MEMPHIS, TN 38120

CONTACT

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TOLL FREE: 800.449.6202

FAX: 901.386.0624

EMAIL: REG53@CAPTIVEAIRE.COM

RSVP BY PHONE, FAX OR EMAIL

SPECIAL POINTS OF INTEREST

New Commercial Kitchen Ventilation (CKV) seminar includes the following topics:

- Lessons Learned from CKV history
- Ventilation System Research Highlights
- Optimizing CKV Applications
- Managing Energy with ventilation systems
- Case studies that demonstrate optimal design principles

Sponsored by

CAPTIVEAIRE
THE PERFORMANCE COMPANY

Kitchen Ventilation Seminar

March 14, 2006

8:00am — 12:15pm

Yes, I would like to take advantage of the complimentary admission and attend this seminar. *If you know of someone who you think would like to attend and has not received an invitation, please let us know.*

Company Name: _____

Address _____

City _____ State _____ Zip _____ Phone _____

Participants Name:

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Driving Directions: From Memphis International Airport, head North on Winchester Rd. Left to take ramp toward I-240. Merge onto Plough Blvd. Merge onto I-240 E toward Nashville. Take the US-72 E/Poplar Ave exit—Exit 15A— toward Germantown. Stay straight to get onto Poplar Ave/US-72 E/TN-57 E. Left onto Poplar Pike Ext. This becomes Ridgeway Loop Rd. Left onto Ridgeway Center Pkwy. Ridgeway Center Pkwy becomes Ridge Lake Blvd.

