



## ASHRAE

### 2008-2009 OFFICERS

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**Dayton Chapter**  
PO Box 3202 Dayton, OH 45401  
<http://www.daytonashrae.org>



## Net-zero Buildings

*Featuring Professor John Kelly Kissock, Ph.D, P.E.*

### Tech Session: "Psychrometrics—What is it Good For?"

**5:00 Tech Session**

**5:30 Social and Check-in**

**6:15 Dinner**

**6:45 Chapter Business**

**7:00—8:00 Featured Speaker**

**Members & Prospective Members - Free**  
**(All others \$25)**

## October 13, 2008

Engineer's Club of Dayton  
110 East Monument Avenue

**Reservations: Contact Jeremy Fauber, [JPFauber@heapy.com](mailto:JPFauber@heapy.com) or 224-0861**

**Topic:** We often hear the term "Net-zero energy" or "Net-zero design". But what does this really mean? NO utility bills? Strange building designs with unusual, futuristic features? Dr. Kissock will set us straight on this exciting concept and how to turn it into reality.

**Speaker:** Dr. Kissock is a Professor of Mechanical and Aerospace Engineering at the University of Dayton. He is also Director of the University of Dayton Industrial Assessment Center and the University of Dayton Building Energy Center. He is a Registered Professional Engineer in the State of Ohio as well as an ASHRAE member. He has been a research engineer at the Energy Systems Laboratory at Texas A&M University and the Center for Energy and Environmental Studies at Princeton University.

Dr. Kissock works in the fields of building, industrial and renewable energy systems, teaching graduate and undergraduate courses in thermal sciences and energy systems. He has published over 80 technical papers on energy systems in books, technical journals and conference proceedings. Dr. Kissock developed the EModel software for the Texas LoanSTAR program, the Advanced PRISM software for Princeton University, the ETracker software for the U.S. Environmental Protection Agency Energy Star Buildings Program, the Inverse Modeling Toolkit for ASHRAE's Measurement and Verification Guideline and many other widely used software applications.

As Director of the University of Dayton Industrial Assessment Center, Building Energy Center and president of Energy Information Systems, Dr. Kissock has conducted over 200 industrial and commercial energy assessments. He is a U.S. Department of Energy certified Energy Expert in compressed air and process heating systems and has conducted numerous seminars and training sessions on energy efficiency for consultants, utilities, and industrial and government organizations in the U.S. and internationally.

## A Note from the President



Neither rain, nor snow, nor gloom of night ... *but a hurricane?* Who could have predicted a **hurricane** would “blow away” our September YEA meeting. We’ll try again on October 27th—look for more details on page 3 of this newsletter.

We’re excited to kick off our year’s programs with a special guest for Membership night—Kelly Kissock, whom many of you may know from the University of Dayton, will be talking about “Net Zero” Energy Buildings. October also brings the return of monthly tech sessions prior to the meeting. Our overall theme for the year is “Back to Basics”. This month’s topic is “Psychrometrics—What is it Good For?”, presented by last year’s President Greg Cohron.

We are still looking for people willing to get involved in the operation of the chapter. You don’t have to agree to take on anything big—just volunteer to run a tech session, help sign in members at the door, help plan the January party (trust me on this—you don’t want the party planned by a group of fifty-somethings whose idea of a big night is staying up all the way to 11PM to watch NUMBERS on TV). Got any ideas? Give them to our youngest board member (Jeremy Fauber, President-elect) or come to a meeting yourself (October 16, 8 AM, Heapy Engineering) — we don’t bite and we always have fresh donuts from Bill’s Donuts.

If you don’t like coming to ASHRAE because you think you won’t know anyone, this month is made for you—bring a friend/coworker (or two or six) who might be a prospective member. They get a FREE MEAL and you have someone to talk to. And besides, there is a great tech session and program, too. And it will get you 2 PDH’s towards your PE Continuing education requirements!

Thanks again to all of the officers and committee chairs for their past and continuing service to the Dayton Chapter.

Sincerely,

*Lorraine A. Kapka, P.E.*

## Coming Next Month:

**Monday, November 10**

**Student Night/Research Promotion Night**

### Dedicated Outdoor Air Systems (DOAS): Design and Field Experiences

**Topic:** Specific attention will be given to controls, enormously expanded equipment choices, comfort and ADPI, energy performance, humidity control, loss of air side economizers, LEED points, parallel systems, and pitfalls.

**Speaker:** ASHRAE Distinguished Lecturer Stanley Mumma, ASHRAE Fellow and Professor Emeritus of Architectural Engineering at Pennsylvania State University

## Coming Events 2008/2009



- **October 13, 2008** – Dinner - “Net Zero” Energy Buildings, Membership Promotion night. **Tech session before meeting:** “Psychrometrics — What is it Good For?”
- **October 16, 2008—Board of Governors, 8AM at Heapy Engineering**
- **October 27, 2008** - **RESCHEDULED!** Young Engineers in ASHRAE lunch ( 35 and younger)
- **November 10, 2008** – Dinner - Dedicated Outdoor Air Systems (ASHRAE Distinguished Lecturer) Student night and research promotion night
- **December 8, 2008** – Lunch - Heating Systems
- **December 12, 2008** – Research Promotion Breakfast (by invitation)
- **January, 2009** – Holiday Party TBD
- **February 9, 2009** – Lunch - Hybrid HVAC Systems (ASHRAE Distinguished Lecturer)
- **March 9, 2009** – Dinner - 3-D Integrated Design
- **April 13, 2009** – Bus tour to Copeland plant with Dinner
- **April 22, 2009** - ASHRAE Webcast - Indoor Air Quality at Sinclair Community College
- **May, 2009** – Golf Outing TBD
- **June, 2009** - ASHRAE at the Dayton Dragons
- **June 2009** - Green Expo at Heapy Engineering
- **July 31 – August 1, 2009** - Chapters Regional Conference in Akron, Ohio. Chapter officers and committee chairs required to attend - all other members welcome!

## Research Promotion News

Exciting News! The Dayton Chapter has reached its “Full Circle” research promotion goal earlier than ever (all chapter officers giving at least \$100). How about the rest of you? Wouldn’t it be nice if everyone gave a little to help us meet our new research promotion fundraising goal of \$8000? Think what a difference you could make!



## Membership News!

How do you get to be a 50-year member? Ask these gentleman who just achieved that milestone:

Theodore Lienesch  
Thomas Monnig  
Harry Williams

And our newest Life member:

Alan Watton

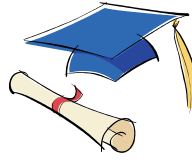
## Student ASHRAE News

Coming Events:

**October 30, 2008:** Fall HVACR Club Meeting 7:00 PM, room 4011, Sinclair Community College. Joe Haugen from the Army Corps of Engineers on the Human Performance Wing Construction Projects.

**November 10, 2008:** Student night at Dayton ASHRAE

Need a little help in your business? Sinclair is always looking for co-op, intern and part-time placements for students.



## Young Engineers in ASHRAE

*A Special Meeting for those 35 and under!*



### *The Future of Energy*

**11:30 Lunch**

**12:00—12:45 Program**

**FREE for members and prospective members 35 and under**

**All others \$20 at the door**

**October 27, 2008**

**Engineer's Club of Dayton**

**110 East Monument Avenue**

**RSVP: By Thursday, October 23, 2008,  
12 noon**

**Jeremy Fauber at [JPFauber@heapy.com](mailto:JPFauber@heapy.com)**

Third Sun Solar & Wind Power, Ltd. is a design-build general contractor specializing in renewable energy. They supply consulting/design services and full turnkey solutions for new and retrofit projects in the commercial, institutional and residential sectors.

**John Fanselow** serves as Project Developer for Third Sun's Cincinnati Office. John has a Bachelor's in Physics from the College of Wooster and a Master of Science in Materials Science from the University of Wisconsin at Madison. John has had a varied career including renewable energy promotion and advocacy, commercial airline pilot and instructor, and materials science researcher. He has extensive travel and cross cultural experience, and served in the U.S. Peace Corps teaching physics and math in Cameroon, West Africa.

***Door Prize Drawings for Starbucks Gift Cards***

***This meeting not part of regular meetings paid by annual dues.***

## Dayton Chapter History

It's time to start on the **New Updated Dayton ASHRAE History**. The original 1990 history is being supplemented with a new, more interesting version with less technical detail and more chapter president personal history information, as well as information on their employers. This adds a new dimension to the Chapter History, as these companies were the users of the technical material that ASHRAE produced and supplied the manpower to operate and lead our chapter. Over the past two years, the update covered the 39 years from 1950 to 1988. We need to continue to update and add to this data but most of all, we need to add the next 19 years. I do have the old technical ASHRAE History data and can help with that info, but I need input on Company History from the past presidents. This year, I will cease doing the histories in consecutive yearly order and start writing and publishing yearly histories as I receive data.

Please help to complete the Dayton History.

Thanks,  
Tom Ferdelman, Chapter Historian



### Histories and information needed:

Dennis Helmig	1989/90
Rick Huff	1990/91
Phil Van Styn	1991/92
David Schmenk	1992/93
Chris Hampel	1993/94
Mark Neiheisel	1994/95
John Mosgo	1995/96
Dennis Lewis	1996/97
David Deger	1997/98
Jim Hocker	1998/99
David Patterson	1999/00
Joe Ferdelman	2000/01
Jeff Evans	2000/02
Russ Marks	2002/03
Bart Gruernwald	2003/04
Bruce Knapp	2004/05
Mike Kirchens	2005/06
Tom Ferdelman	2006/07
Greg Cohron	2008/09

### Chapter Board of Governors Meetings

Sounds a little stuffy, but they are actually a lot of fun. Meetings are held the third Thursday of each month at 8 AM at Heapy Engineering (they provide a room, coffee and free parking). We spend 1-2 hours talking about ways to improve the chapter, meeting topics, other ways to inject fun into coming year, etc. Want to have a say in how things are done? We would welcome you to join us—the next meeting is Thursday, October 16, 2008 at 8 AM. Donuts from Bill's are always there!



Research Promotion  
Corporate Honor Roll 2008

Platinum  
Waibel Energy Systems

Gold  
Controlled Air, Inc.  
Elitaire, Inc.  
Ramsay-Cohron Mechanical Equipment  
Starco  
Stoermer-Anderson

Silver  
Heapy Engineering, LLC  
Uptime Solutions

Bronze  
Allied Supply  
BC&E Engineering  
Contech Design  
Patterson Equipment  
Zimpher Sales



## Dayton Chapter ASHRAE

[www.sinclair.edu/community/daytonashrae](http://www.sinclair.edu/community/daytonashrae)

### Membership Application and Roster Information 2008-2009

Your Name			Your Company Name		
Home Address			Business Address		
City	State	Zip	City	State	Zip
( ) -			( ) -	Ext.	( ) -
Home Phone	Spouse Name		Business Phone	Fax Number	
Home e-mail address			Business e-mail address		

**SEND NEWSLETTER TO:** Circle one: Home Address   Home email address   Business Address   Business email address

I prefer Lunch Meetings \_\_\_   I prefer Dinner Meetings \_\_\_   I have no preference \_\_\_\_\_

Chapter achievements are accomplished through active committee involvement. If you would like to promote your Society by serving as a committee chair or assist on one of the chapter committees, please indicate in which committee you are interested below. Please indicate your first preference by number 1 and so on.

- Education  
  Membership  
  Research  
  Historian  
  Newsletter  
  Chapter Office  
 CTT (Refrigeration; Technical, Energy & Government; Programs)  
  Golf Outing  
  Communication  
 Holiday Party  
  Honors & Awards

**Please Check Your Preferred Roster Affiliation**

**Consultant   Contractor   Industry/Government   Retired**  
**Education   Student:** \_\_\_ School   \_\_\_ Degree   \_\_\_ Approximate Graduation Date \_\_\_

**Wholesalers, Manufacturer's Rep/Sales Offices, Fill in trade names of products you represent below:**

Air Devices		Louvers and Dampers
Air Handlers		Make-Up Air Units
Boilers		Packaged A/C
Building Automation		Pre-Insulated Pipe
Chillers		Pumps
Coils		Sound Attenuation
Computer Room Equipment		Steam Specialties
Cooling Towers		Air Terminal Units
Ductwork		Thermal Storage
Dust Collection		Unit Heaters
Fans		Unit Ventilators
Fan Coil Units		Vibration Isolators
Filtration		Valves
Heat Exchangers		Variable Speed Drives
Heating Equipment		Water Source Heat Pumps
Humidity Control		Water Treatment
Kitchen, Laboratory Fume Hoods		Other

*Dayton Chapter ASHRAE dues for the Society year beginning July 1, 2008 and ending June 30, 2009 are \$95 per year. Dayton Chapter ASHRAE dues include 6 dinner/lunch meetings, and both you and a guest for the holiday event.*

*\* Note: Be sure to begin paying Local dues when you pay your National Dues.*

**Please return this application and a check or money order in the amount of \$95 made payable to Dayton ASHRAE to:**

**DAYTON ASHRAE, PO Box 3202, Dayton, OH. 45401**

**Paid local dues with your annual dues? Please return the form anyway!**



# ASHRAE RESEARCH Dayton ASHRAE

## Contribution Form

Thank you in advance for your commitment to ASHRAE Research! Remember, this is our livelihood. ASHRAE's research and educational programs are what keeps our industry and profession on the leading edge and assures its continued existence. Confident that you will recognize the benefits of this investment, I am asking you to help fund the future of HVAC&R research and professional development.

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Phone Number: \_\_\_\_\_

Member Number (If known): \_\_\_\_\_

Amount: \_\_\_\_\_

Do you want to be recognized in the Dayton newsletter as a contributor?  
(circle) YES NO

Mail completed form with your check, payable to ASHRAE Research to:

Denny Lammlein  
29 Sandelwood Street  
Springboro, OH 45066