



Mississippi Valley Chapter Newsletter

March 2008

<http://www.mississippivalleyashrae.org>

Monthly Newsletter

Event Schedule

- **September 20, 2007**
Hydraulics – Back to Basics
- **October 23, 2007**
The Path to Sustainability Using Renewable Energy
- **November 15, 2007**
Closed Loop Water Treatment
- **December 14, 2007**
Social Night - Penguin's Comedy Club
- **January 17, 2008**
Ammonia Refrigeration
- **February 21, 2008**
Managing Your Energy- A Sustainable Activity
- **March 27, 2008**
Distinguished Lecturer
"What's My Carbon Footprint"
- **March 28, 2008**
Distinguished Lecturer
ASHRAE Standards 189P and 105
- **April 17, 2008**
History
- **May 15, 2008**
Student Activities
- **June 2008**
Golf Outing

TOPIC: The Green Awakening: How Climate Change Issues May Impact Business

This presentation includes building CO2 footprint calculation, plus some background and speculation on what a future of climate change and carbon emissions cap and trade or carbon tax might have on businesses.

SPEAKER: Dr. Tom Lawrence, Ph.D., PE, LEED-AP

Dr. Lawrence is a Public Service Associate with the University of Georgia, and has over 25 years of professional experience in engineering and environmentally related fields. Before going back for his Ph.D. in Mechanical Engineering at Purdue, he spent approximately 20 of those years in progressively more responsible engineering and management positions in industry and consulting. Currently, he is vice-chair of ASHRAE Technical Committee 2.8, "Building Environmental Impact and Sustainability", and is a member of the committee writing an ASHRAE standard on high-performance green buildings (Standard 189.1). Dr. Lawrence has presented papers on building energy usage and indoor air quality at conferences in the U.S. and Europe, and has published papers on sustainable design and energy usage in buildings in journals such as *ASHRAE Journal*, *Solar Today*, and *Buildings and Environment*. As an ASHRAE Distinguished Lecturer, he has given presentations and workshops on green building design at venues around the world. At the University of Georgia, Dr. Lawrence teaches or has taught courses

March 27, 2008 Program

Location: The SteepleGate Inn
100 W 76th St
Davenport, IA

Program: The Green Awakening:
How Climate Change
Issues May Impact
Businesses

Agenda: 4:30-5:30 Program
5:30-5:45 Meeting
5:45-6:45 Dinner

Menu: Napoleon Chicken
Caesar Salad
Seasonal Vegetable
Dessert Special

Cost: Members: Free
Others: \$15

RSVP: [Online](#) or call Simon
Possin at 309-793-3568
by Wednesday, March
26, 2008.

in Building Environmental Control, Green Building Design, Industrial Ventilation, Residential Building Design, Heat Transfer and Thermodynamics, and in these courses he works to bring in sustainable design concepts practices. As part of the Engineering Outreach program, he is helping to coordinate building energy reduction activities within the state university system. Dr. Lawrence is also a consultant to Commissioning and Green Building Solutions in the Atlanta, Georgia area. He is an active volunteer with Habitat for Humanity, serving as Vice-President of the board of directors for the Athens, Georgia chapter while working to introduce sustainable design practices in the houses built there.

Dr. Lawrence has a B.S. with Highest Distinction honors in Environmental Science from Purdue University (1978), a M.S. in Mechanical Engineering from Oregon State University (1982) and a second M.S. degree in Engineering Management from Washington University earned in 1989. He received a Ph.D. in Mechanical Engineering from Purdue University in the spring of 2004 researching the impacts of demand-controlled ventilation on energy consumption and indoor air quality in smaller commercial buildings. Dr. Lawrence is a member of the American Society of Heating, Refrigeration and Air Conditioning Engineers; the American Society for Engineering Education and is a Phi Beta Kappa.

March 28, 2008 Chapter Seminar

**Speaker: ASHRAE Distinguished Lecturer
Tom Lawrence, Ph.D., P.E., LEED-AP
University of Georgia**

Friday, March 28, 2008

Steeplegate Best western Inn, Symposium Room

The Mississippi Valley Chapter of ASHRAE is pleased to present its spring 2008 seminar to all interested in ASHRAE Green Building energy design for new and retrofit commercial buildings. As buildings use about 38% of total energy in the USA, intense efforts are underway to reduce building energy use. This effort integrates ASHRAE Green Building Advanced Energy Design Guide developments and USGBC-LEED requirements into the ASHRAE family of Building Energy design guides. Building projects may be affected by Standard 189.1P after public review and issue.

Engineers, architects, building owners, and leading contractors will be interested to attend. Professional Development credits will be awarded for engineers and for Architects who attend. Our presenter will be Tom Lawrence, Ph.D., P.E., LEED-AP, University of Georgia; Athens, GA. Tom is 2008 vice-chairman of ASHRAE technical committee TC 2.8.

This committee is helping to bring sustainable building design to the mainstream by conducting research investigations, industry and community outreach, and preparation of reference materials such as the ASHRAE Green Guide.

Tom is a voting member of ASHRAE SPC 189, which is writing a new ANSI-level standard on "High Performance Green Buildings". Tom was named as a Distinguished Lecturer by ASHRAE in Green Buildings and Sustainability.

The seminar is scheduled from 7:30 am to 3:00 pm at the Best Western Steeplegate Inn, in Davenport. The registration fee of \$90 provides for all breaks, a buffet lunch, a notebook and selected pages of the standards which will enable the understanding and use of the design standards. (The fee increases to \$110 after March 20, so be sure to register ASAP, as seating is limited.)

Of particular interest to the construction industry is the breadth of coverage of this standard which implies that Standard 189 Will Become A TOTAL PRESCRIPTION for design professionals and CONSTRUCTION MANAGERS:

Standard 189.1P combines the instructions of 90.1, LEED, and Green Buildings Council into one comprehensive design document. Use of new Standard 189 will lead design professionals to complete considerations of site selection, heat island reduction, protecting native species, as well as taking a total view of energy efficient building design for a sustainable future.

TOPICS Included in 189.1P:

- Minimum Building Criteria – New and Retrofit
- Site: (water use, energy, IEQ, Building impact on environment)
- Carpooling
- Recyclables
- Shading of roofs and walls
- Water use efficiency
- Energy
 - Metering
 - Shading of fenestration
- HVAC
 - Economics
 - Energy recovery
- Piping flow rates
- Automatic controls
- Energy Simulation
- Equipment efficiencies
- Carbon Dioxide emission limits
- IEQ
- Acoustic Control
- Day-lighting/ Simulation

- Materials/ Sourcing
- Commissioning and verification

RENEWABLE ENERGY TAX PACKAGE WILL SAVE CONSUMERS MONEY, BOOST ECONOMY, CREATE JOBS, SAYS BUSINESS-CONSUMER COALITION

Washington, D.C.—A coalition of more than 100 business, trade and advocacy groups today called on the U.S. Senate to pass bipartisan legislation as soon as possible that extends renewable energy and efficiency tax credits that have already expired or will expire at the end of this year. The tax incentives would strengthen the renewable energy industry and expand the market for energy-efficient products, which ultimately would reduce residential and commercial energy costs, generate new domestic jobs, and boost a flagging economy, according to the coalition.

“Renewable energy sources like solar and wind are a proven economic engine for our country. They’ve created tens of thousands of green collar jobs and billions of dollars in investment,” said Rhone Resch, president of the Solar Energy Industries Association. “Congress and the administration should seize this opportunity to support this high-growth sector.”

The business-consumer coalition includes 47 manufacturers, including Dow Chemical, DuPont, Owens Corning and Whirlpool; eight retailers, including Best Buy, Home Depot, Lowe’s and Wal-Mart; 23 trade associations, including the Association of Home Appliance Manufacturers, the National Association of Homebuilders and the National Small Business Association; 25 advocacy groups, including Environment America, Natural Resources Defense Council, Sierra Club and Union of Concerned Scientists; and 10 utilities, including Constellation Energy, Exelon and Florida Power & Light. (For a complete list of the 114 coalition members, go to the bottom of this release.)

Historically, Congress has extended clean energy tax incentives in only two-year increments, creating a boom-bust cycle that impedes industry development. The ideal Senate tax incentive package, the coalition said, would extend incentives for wind, solar and biomass for a number of years to provide the stability financial investors need to back new projects.

In addition to extending tax credits for renewable energy sources, the coalition urges the Senate to extend tax incentives for constructing energy-efficient buildings, investing in solar electric systems, installing

efficient home heating and cooling equipment, manufacturing efficient home appliances, and retrofitting existing homes to save energy.

“Our nation’s buildings account for 70 percent of our nation’s electricity use, and that’s why these incentives are vitally important to deploy energy-efficient designs, technologies and equipment,” said R.K. Stewart, former president of the American Institute of Architects. “The end result is that we would get the most energy-conserving buildings possible, which means reduced utility bills for businesses and homeowners, and lower overall energy demand across the nation.”

Jeffrey D. DeBoer, president and CEO of the Real Estate Roundtable, a policy organization that represents the commercial real estate industry, agreed. “By extending energy tax incentives, Congress will be encouraging the rapid rollout of a new generation of high performance, energy-efficient green buildings,” he said. “With energy prices soaring, passing these incentives is just common sense and key for any credible energy policy.”

Steven Nadel, executive director of the American Council for an Energy-Efficient Economy (ACEEE), also pointed out that an ACEEE analysis found that extending the energy efficiency provisions would add roughly 15,000 jobs to the U.S. economy, considering both added jobs in the energy efficiency and service industries and lost jobs in the traditional energy industries.

Members of the Retail Industry Leaders Association (RILA) also see major benefits to extending the incentives. “These energy tax credits encourage the construction of ‘green’ buildings and the use of solar technology, all practices engaged in by RILA member companies,” said Lori Denham, RILA executive vice president for government affairs and industry operations. “Furthermore, these credits encourage consumers to purchase energy-efficient products, such as appliances, which save on energy costs and reduce overall consumption.”

Joseph M. McGuire, president of the Association of Home Appliance Manufacturers explained how the incentives for manufacturers would make it easier for them to market super-efficient clothes washers, refrigerators and dishwashers. “The incentives will accelerate design, production and market acceptance of highly efficient appliances, potentially saving consumers \$33 million per year in electricity, gas and water costs and \$360 million over the life of those appliances,” he said.

Besides the economic rationale for supporting the incentives is the pressing need to address global warming, said Marchant Wentworth, a clean energy advocate at the Union of Concerned Scientists. “We don’t have to choose between the economy and the environment,” said Wentworth. “Extending these tax credits will help stimulate the economy and protect public health and the planet at the same time.”

Region VI Chapter Regional Conference hosted by the Illinois Chapter of ASHRAE

The 2008 CRC will be held May 15, 16 & 17th at the Eaglewood Resort and Spa in Itasca, Illinois. The resort is conveniently located 35 minutes West of Chicago directly off of I-355 and I-290 and only 20 minutes from Chicago O'Hare International Airport.

The Friday technical focus for the conference will be the Design of Geothermal Heat Pump Systems for Commercial and Institutional Buildings presented by industry expert Dr. Steve Kavanaugh. Dr. Kavanaugh is a Professor of Mechanical Engineering at the University of Alabama. He has been involved in ground source heat pump research and development for 20 years. The technical session emphasis will be focused on providing practical design knowledge. Professional development hours are available for this presentation. An optional nine-hole golf event will follow and we'll cap off the day with dinner. Regional business meetings will kick off Thursday afternoon and conclude Saturday afternoon. Chapter training seminars will be held Saturday morning followed by the Awards Luncheon.

Registration is now open on our website <http://crc.ashrae6.org>. Hotel rooms may be booked at a rate of \$140/night through Eaglewood Resort, please contact them at (877) 285-6150 and mention you will be attending the ASHRAE Regional Conference. If you have questions please email crc@ashrae6.org or contact conference Chair Mark Hegberg, mark.hegberg@itt.com or (847) 983-5708.

Early Registration is open though April 14th:

<http://crc.ashrae6.org>

Registration Options:

- 1) Online – Pay online or by mail
- 2) Mail – Fill out registration form and mail/fax.

Chapter Requirements for 2008:

In the past we have required CRC documents on compact disc. This year everything shall be uploaded to our website prior to the first business session on Thursday. Because we are now electronically archiving materials, we have to set guidelines and requirements to insure the longevity of materials. The following items must be provided as a minimum:

Provide the following items as separate files in .PDF format

- 1) Chapter CIQ
- 2) Chapter Summary
- 3) Chapter Report (CRC Presentation)

The Chapter Report presentation must be submitted as a .PDF, but if you'd like to present it as a Microsoft Powerpoint Presentation, you

may in addition submit a .PPT file. The Chapter Report will be presented in the business sessions so please include the Chapter Summary in your report. Microsoft Word and paper documents will not be accepted. All Chapter materials will be distributed electronically in the meeting if you want to bring a laptop. No paper binders will be handed out, so leave the hand trucks at home.

YEA Leadership Weekend

YEA Leadership Weekend is an opportunity for future leaders of ASHRAE to learn more about our Society, develop soft skills and network with other young professionals just like you!

The event will be held Friday through Sunday, May 2-4, 2008, in Atlanta, Georgia. It will begin at 5:30 p.m. on the 2nd, so you can plan to travel to Atlanta that morning. The registration fee is \$300 and will cover your sleeping room (single room for two nights) and food – you need to arrange your transportation to Atlanta. The program will end early on Sunday (4th) afternoon to allow you plenty of time to get home and back to work on Monday. ASHRAE Leadership Weekend includes segments on understanding your personality as well as other types, leadership development for young professionals, communication techniques and ASHRAE leadership opportunities. Visit the website at: www.ashrae.org/yea - the registration form and the event schedule are posted in the Leadership Weekend section. Registration closes April 4, 2008. (You can also view the tentative schedule on the website.) Space is limited, so submit your form early. We'll see you in Atlanta!

**LEADERSHIP | NETWORKING | COMMUNICATION |
PROFESSIONAL DEVELOPMENT**

A S H R A E

The primary objective for the YEA Committee of Members Council is to enhance our member benefits for young professional ASHRAE members age 35 and younger by identifying activities and services focused on their needs.

2007/2008 Research Promotion:

We have had a good start for this year but if we are going to be able to reach our goal we need to step up our individual donation efforts. I am asking all members to donate at the \$100.00 level and give those checks to me. Remember all Trane employees that a fifty dollar donation by you would get you on the \$100.00 honor roll with the Corporate match. Johnson Controls has implemented the same matching program as Trane's. All checks need to be made out to ASHRAE Research. I may not be in our area anymore but will still be

finishing out the year and continue to hound you on making an investment in RP.

Thank you - ***Bruce Britson RP Chair***

2008 Elections:

April will be election month once again this year. The office of Secretary will be vacant and we are looking for someone to step into that role. Please let any officer know if you are willing to take on this responsibility.

2008 Scholarship:

The ASHRAE student activities committee is again taking applications for the scholarship. If you have a family member or friend with a family member who is pursuing a degree in the HVAC industry please contact Matthew Schneider (schneidermt@kjww.com) or access the Mississippi Valley Chapter website for the scholarship application and supporting information.

2006-2007 Officers/Board of Governors

President: Jim Nonnenmann
Vice President: Andrew Price
Treasurer: Pat Igou
Secretary: Simon Possin
Past President: Bruce Britson
Member at Large: Eric Granzow
Member at Large: Brian Hodgkin

2006-2007 Committee Chairs

CRC Delegate: Andrew Price
CRC Alternate: Patrick Igou
Historian: Sherm Sweeney
Membership: Tracy Van Damme
Programs: Patrick Igou
Resource Promotion: Bruce Britson
Seminar: Bruce Davis
Student Activities: Matt Schneider
CTTC: Jon Bovenkamp
Webmaster: John Schaub

Monthly Meetings

The regular monthly meetings for the Mississippi Valley Chapter of ASHRAE are held on the 3rd Thursday of each month from September to May unless otherwise noted. Meetings are located at the Steeplegate Best Western in Davenport Iowa unless noted otherwise.

Only You Can Help!!!

In order for our chapter to grow and maintain the great membership we have enjoyed, we need volunteers to help with the running of the chapter. Volunteers are needed for the following committees:

Membership	CTTC
Student Activities	History
Resource Promotion	

Contact any officer or committee chair to Volunteer!

Check-out the Updated Chapter Website at:

www.mississippivalleyashrae.org



Mississippi Valley Chapter
ASHRAE
Attention: Simon Possin
623 26th Avenue
Rock Island, IL 61201