



UTAH CHAPTER Newsletter

Volume 8

Issue 8

January 2008



DATE	TIME	TOPIC	SPEAKER	LOCATION
Feb. 8	6 pm	Using DDC Systems as a Tool for Commissioning	Frank Shadpour, P.E.	Radisson Hotel
Mar. 5	evening	Student Night with Tour of E-Center & hockey game	TBA	E-Center
Apr. 4	noon	Utah Weather and its Impact on HVAC	Dan Pope, meteorologist	TBA
May 9	noon	Technical Conference in morning with lunch mtg.		
June	TBA	Golf Tournament and Year End Party		

ASHRAE Distinguished Lecturer, Frank Shadpour, P.E. Speaking on February 8th

On Friday, February 8th, our chapter will be hosting Frank Shadpour, P.E., an ASHRAE Distinguished Lecturer. Frank is a consulting engineer with GEM Engineering, Inc. in San Diego, CA. Frank's topic will be "Using DDC Systems as a Tool for Commissioning". This dinner meeting will be held at the downtown Radisson, and member's spouses are welcome at no charge. We will be honoring the recipients of the Utah ASHRAE Engineer of the Year Award and Fresh Faces in Engineering Award at this meeting. Frank Shadpour will also be giving a brief talk on how ASHRAE members affect the environment. He recently gave the same speech to other ASHRAE members and their spouses in Los Angeles, and it was well received and enjoyed. Frank is a well-renowned speaker throughout ASHRAE; this will be an interesting, informative, and fun evening. Please join us! RSVP to Sara Frame at sara.a.frame@gmail.com.

Date: Friday, February 8th, 2008
Time: 6:00 p.m.
Topic: Using DDC Systems as a Tool for Commissioning
Location: Radisson Hotel (Wasatch Room)
215 W. South Temple, Salt Lake City
Cost: Members and their spouses NO CHARGE, Guests \$25

Spouses Welcome

Free parking is available at the hotel. TRAX stops one block east of the hotel

Mark your calendars for our February 2008 monthly meeting:

Using DDC Systems as a Tool for Commissioning
Distinguished Lecturer:
Frank Shadpour, P.E.

Members & Spouses are invited

Date: Friday, February 8, 2008

Time: 6:00 p.m.

Place: Radisson Hotel
215 W. South Temple

January Meeting: Well Attended

January Meeting and Panel Discussion Well Attended

Approximately 70 members and guests attended the panel discussion on "Green Building/Sustainable Design and the Role of HVAC Systems" at the Utah Department of Natural Resources on January 4th. The panel was moderated by **Steve Connor** (Colvin Engineering Associates, Inc.) and had five panelists from the design, construction, and commissioning industries: **Orrin Farnsworth** (AEE Solar), **Steve Crane** (VCBO Architecture), **Spencer Howell** (Van Boerum & Frank Associates, Inc.), **Paul Shingleton** (Jacobsen Construction), and **Lindy Johnston** (Total Building Commissioning – Spectrum Engineers).
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Day Lighting Recap

Recap of the Day lighting and Integrated Design Program

As part of ASHRAE's support of Sustainability, the Utah Chapter brought in Professor Kevin Van Den Wylmelenberg of the University of Idaho and Director of the University's Integrated Design Lab. Kevin's talk on Daylighting and Integrated Design was well attended by an audience of ASHRAE and AIA members. Dr. Van Den Wylmelenberg discussed the importance of integrating the entire design team early in the project, utilizing the full capability of simulation tools as early as possible and working to maximize the amount of daylight space in the design. He referenced numerous studies that show the benefits of daylight including studies that show a positive correlation between daylight and worker productivity. He emphasized that the mechanical engineer should be integrated into the design team early so they can understand the building design and size the HVAC system appropriately. An example he discussed was how a good daylighting system will reduce the peak cooling load, allowing the engineer to decrease the size of the HVAC system, offsetting some of the cost of the daylighting system.

Dr. Van Den Wylmelenberg discussed a number of principles of how and why daylighting and integrated design can be and should be incorporated into our current projects. I'd like to thank the volunteers of ASHRAE for putting together another great program helping us down our path to better and more sustainable buildings.

-Greg Schlegel

A Message from the President

ASHRAE PRESIDENT'S MESSAGE FOR JANUARY 2008

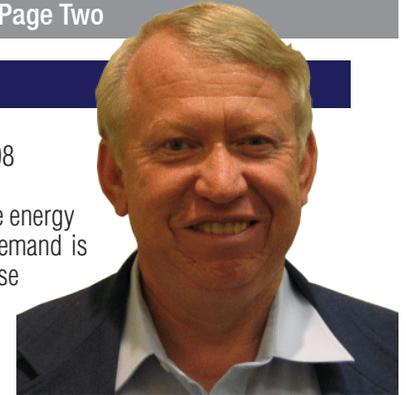
Almost every day in the news we read or hear about the energy crisis that we are or will be confronting. Electrical demand is increasing with population growth, crude oil is close to \$100 a barrel and the growing economies of third world countries are pushing up the demand for our planet's finite energy resources as their populations buy automobiles and more move into houses that have electrical utilities and even air conditioning.

Coal burning plants, our typical source of electrical generation are now being refused by California municipalities to meet future demands. Natural gas fired turbine plants have been constructed in many locations to fill this void, but the price of natural gas is very volatile as production well life for many natural gas fields may only be several years. Continual drilling and exploration is necessary to meet projected natural gas requirements. Wind, solar and other renewal energy sources are projected to meet only a fraction of the future demand. The shift to ethanol refining has driven up the cost of corn and other food stocks for cattle as farmers are now shifting production acreage to fuel crops. The resulting substantial rise in food, meat and milk prices is causing social unrest, especially in Mexico, which uses corn for its basic cuisine.

We in the US are used to having all of the energy available for our wants and needs. We fill up our SUVs and pay whatever the pump price is. We air-condition our ever bigger homes, cars and office buildings. We take our boats to the lake in the summer and run our snowmobiles

We buy more and more electronic appliances which all require recharging. We have all become accustomed to comfort and leisure with our economy and standard of living. Our household appliances, which make our lives more enjoyable are all energy dependant. Other societies used forced human labor in times past or today employ domestic servants to do the menial labor for daily living that our energy utilization provides. Our society has become dependant on energy consumption. Our electrical generation and transmission systems recover only a fraction of the potential energy of the coal or natural gas burned, delivering only 25% or less that contin we are able to use at the electrical outlet. A shift to nuclear brings radioactive waste disposal issues.

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Researchers at MIT prove that rolling shopping carts will almost invariably hit the most expensive car in their vicinity.



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JANUARY MEETING - Continued

The discussion began with each panelist giving a brief description of their own view on sustainable design. The ensuing conversation covered issues such as the increasing complexity of systems and their effect on sustainability and selling owners on sustainable design versus working for owners already committed to building "green". There was also a dialogue about the definition of sustainability and if we, as an industry, will ever get to a point of designing truly sustainable facilities in balance with our ecology.

PRESIDENT'S MESSAGE - Continued

To solve our energy crisis we obviously must not only become more energy conscious and conservation minded, but also improve the energy conversion of our resources. We at ASHRAE have the technology to design more energy conserving systems for the building projects in which we are involved. Last month our chapter sponsored a day-lighting program where we were taught that day-lighting a building can improve not only the ambience but also lower the air-conditioning loads required for electrical lighting. Our January program was a panel discussion on "sustainable" building construction practices. Our Society Presidents have challenged ASHRAE

members to become leaders in the field of energy conservation in buildings as we have the technology to help solve our society's energy crisis.

Gaylen Atkinson
Utah ASHRAE Chapter President
Utah ASHRAE President, 2007-2008

DON'T FORGET ...
The UEC Banquet, Friday
February 15th.
If you still need tickets,
contact Mark Callister
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