



UTAH CHAPTER

Newsletter

Volume 8

Issue 4&5

April/May 2008

A Message from the President

Our luncheon speaker in April, Dr. Robert Gillies, the state climatologist from USU really started me thinking. Until now I had not given a lot of serious consideration to the data behind our earth's global warming trends. Scientists have always had considerable discussion in the way that research data gets interpreted. Dr. Gillies was very thorough in the data of carbon dioxide cycles that have happened over the last hundreds of thousands of years that have been brought to light through ice core analysis. The variation that has happened in the last few years corroborates very closely with the rise in industrial output and if extrapolated forward with our earth's population and industrial growth, especially in the rising economies of third world nations, puts us into uncharted territory in the area of global warming. We will be at carbon dioxide levels in the atmosphere that could be a trigger point for some extreme world weather cycles. Our southwest climate will probably get drier and this doesn't bode well for our already pending water shortages. Our population is growing rapidly, not only along the Wasatch front, but the rest of the state is growing rapidly as well. We are already in competition with California for our use of the Colorado River water system.

We at ASHRAE are already challenged to design zero energy buildings with the goal of 100% of our buildings being net zero energy use on an annual basis by the year 2030. Our ASHRAE satellite broadcast on April 16th covered the topic of integrated design at the beginning of a project being absolutely necessary for the success of a highly energy efficient building. The broadcast presenters emphasized that the integrated design team of the architects, engineers, building owners and other professionals could only get us down to about 40% of the energy budget through careful design. The rest of the energy must be produced on-site with solar, wind or other renewables to meet the rest of the energy requirements for a zero energy building.

We have many challenges ahead of us. The biggest challenge right now for our chapter is hosting the ASHRAE international meeting in Salt Lake City, on June 21 through the 25th. Our host committee, chaired by Mark Case has been working hard on entertainment, tours, monitor staffing and other requirements



Mark your calendars for our April 2008 monthly meeting:



Weather Impacts on HVAC

Date: Friday, April 4, 2008

Time: noon

Place: Chinese Gourmet

we face. We are still looking for more volunteers. You should have received a brochure in your last ASHRAE insights of what's going to be available for the meeting in Salt Lake. At the least, you should look over the technical program and attend on the day that the topics most interest you. IT WILL NEVER GET BETTER THAN THIS FOR THE OPPORTUNITY TO ATTEND A NATIONAL MEETING!!!

I wish to thank once again the chapter Board of Governors, Officers, Committee Chairs and the Host Committee for all the work that has been happening to make us one of the more successful chapters in the country.

We look forward to seeing you at our chapter sustainability conference on May 9th at the DNR building where we can earn four PDH hours.

Gaylen Atkinson
Utah Chapter President, 2007-2008

DATE	TIME	TOPIC	SPEAKER	LOCATION
May 9	noon	Technical Conference in morning with lunch mtg.		
June	TBA	Golf Tournament and Year End Party		



UTAH CHAPTER

Newsletter

SALT LAKE CITY'S SUSTAINABILITY PROJECT

While attending the ASHRAE Winter Meeting in NYC, the Utah Host Committee spawned the idea of developing a sustainable building project as a part of the 2008 ASHRAE Summer Meeting in SLC.

Installing solar panels to assist with generation of the domestic hot water (DHW) for the YWCA Teen Mothers home was ultimately chosen as the project that could "Pay It Forward" for generations to come.

Colvin Engineering and Palmer-Christiansen Co. have teamed up to donate the design and installation work for the solar assisted DHW system. Donations for the materials required are being sought from other ASHRAE members across the world who will be attending the Summer Meeting June 21-25, 2008. If you would like to support this project, please send your contribution to "Utah ASHRAE Sustainable Project" c/o Brandon Briggs at VBFA, 330 South 300 East, SLC, UT 84111 OR go on-line to: https://eweb.ashrae.org/eweb/DynamicPage.aspx?WebCode=CSCEventInfoSC&evt_key=f151bfd4-e8a7-474e-b63a-013d7c6bdd32

*"Scientists investigate that which already is; Engineers create that which has never been."
Albert Einstein*

Officers and Committee Chairs

OFFICERS

Gaylen Atkinson, President
801.327.7950, Fax 801.261.3796
gaylen@atkinsonel.com

Sara Frame, President Elect/Programs
801.870.1750
sara.a.frame@gmail.com

Brandon Briggs, Treasurer
801.530.3148, Fax 801.530.3150
bbriggs@vbfa.com

Ronda Engstrom, Secretary
801.308.0128
ronda.engstrom@holbrookassoc.com

Dan Rollins, Past President
801.293.3788, Fax 801.293.8886
rollinsdan@stanleygroup.com

Mark Callister, Governor-at-Large
801.240.4421, Fax 801.240.1689
callistermd@ldschurch.org

Jeff Grant, Governor-at-Large
801.262.5664, Fax 801.264.8884
jgrant@long.com

COMMITTEE CHAIRS

Mark Case, Auditing & Host 08
801.278.1927, Fax 801.278.1942
mark@etcgrp.com

Gary Anthon, Historical
801.261.3600, Fax 801.261.3796
garya@atkinsonel.com

Chuck Lush, Honors and Awards
801.572.3055, Fax 801.572.3075
chaslush@comcast.com

Dan Goulding, Membership Chair
801.486.0500, Fax 801.486.0752
dgoulding@trane.com

Trent Hunt, Publicity
801.486.0500, Fax 801.486.0752
trenthunt@trane.com

Kyle Kisebach, Student Activities Chair
801.322.2400, Fax 801.322.2416
kkisebach@cea-ut.com

David Merrill, Student Activities Co-Chair
801.530.3148, Fax 801.530.3150
dmerrill@vbfa.com

COMMITTEE CHAIRS (cont'd)

Matt Degooyer, Research Promotion
801.463.5301, Fax 801.463.5370
m.degooyer@us-ac.com

Lincoln Porter, Attendance & Reception
801.262.5664, Fax 801.264.8884
lporter@long.com

Ryan Patterson, Attendance & Reception
801.308.0128, Fax 801.308.0131
ryanp@holbrookassoc.com

Rigel Hulett, Webmaster
801.530.3148, Fax 801.530.3150
rhulett@vbfa.com

Jim Hood/Rob Kesler, TEGA
801.783.4465, Fax 801.907.7375
jhood@emcengineers.com

Jim Patterson, Utah CRC
801.308.0128, Fax 801.308.0131
jimp@holbrookassoc.com

Lori Haglund, Newsletter Editor
801.530.3148, Fax 801.530.3150
lhaglund@vbfa.com



UTAH CHAPTER

Newsletter

Page Three

ASHRAE April 4th Meeting, “What’s Happening with Utah’s Climate?”

Our April meeting brought us back to the Chinese Gourmet on State Street. We had over 60 in attendance to hear Dr. Robert Gillies, of the Utah State University Climatology Center talk about global warming, carbon dioxide in the atmosphere and what appears to be happening to our “Mother Earth!”

Dr. Gillies is also the state climatologist. He served on the Blue Ribbon Action Committee (BRAC) that brought attention to the climate change facing our country. His data was well presented and convincing. He had charts of the carbon dioxide in the atmosphere correlating with global temperatures extending back many hundreds of thousands of years. He reported that this data came from many corroborating sources, including ice cores. He showed how the carbon dioxide level in the atmosphere at the present time is significantly higher than any time in the past that the scientists have data for and is climbing significantly higher. As the land glaciers melt the ocean level will go higher. He emphasized the point that we are in uncharted territory with the CO2 levels in the atmosphere and could be approaching a “trigger point” for some unpredictable long term climate change.

Utah, being part of the southwest, will probably get drier as the earth warms. We are presently in the wettest period for the last several hundred years for our area, and with even a return to normal, can expect less annual precipitation.

With global warming on the horizon, how dry we will get is not predictable at this point. As the models of the earth get better, considering more data and related situations, the ability of the climatologists to predict the future will also improve.

GOLF TOURNAMENT

We need 20-25 more golfers!!!

We had a good number of you RSVP to participate in the Utah Chapter ASHRAE Golf Tournament this year.

Come join us, have a few laughs and help ASHRAE Research

Where:
Stonebridge Golf Course
West Valley City, Utah

This will be a 4-person Scramble Format.

When:
Saturday June 21, 2008
7:30 AM Shot Gun Start

Golf Fee:
\$60.00 per player

Please send your RSVP to Doug Wilkinson at dwillkinson@long.com or call me at 801-262-5664.

You can mail your Golf Fee to:
Doug Wilkinson
LONG Building Environments
4689 South Cherry Street
Murray, UT 84095

ASHRAE Broadcast “Integrated Design”

ASHRAE had their annual broadcast for three hours on April 16th. A number of the Utah members met at Trane Company’s conference room to observe the broadcast. We wish to thank Trent Hunt of Trane for hosting the broadcast. Members could phone or e-mail in questions to a panel of experts with experience in the area of integrated design to improve the energy efficiency of buildings.

The panel consisted of architects, mechanical engineers, contractors, owners representatives and others with experience in the process of integrated design. The consensus of the broadcast was that a truly successful project had to have an integrated design team that worked well throughout the whole construction cycle, from pre-design through the final completion and commissioning. For a truly successful project, all of the members had to work together continuously rather than each piece being designed in “individual boxes” and then fitted together as best as possible later on in the design and construction cycle. Members who viewed the broadcast and registered online with ASHRAE earned 3 PDH’s. Our chapter TEGA chair will have the CD of the broadcast in his library for loaning out to members to view.



2008 Utah ASHRAE Technical Conference

- Date:** Friday, May 9, 2008
- Location:** Utah Department of Natural Resources
1594 W. North Temple
Salt Lake City, UT
- Cost:** \$50 for Utah ASHRAE Members
\$75 for non-members

*This is a chapter fund raising event.
Registration fees collected for this event will be donated to ASHRAE Research.*

There will be 4 Professional Development Hours available.

Please RSVP with Sara Frame at 801-870-1750 or sara.a.frame@gmail.com.

Agenda

- 8:00 am - 8:30 am Registration and Continental Breakfast
- 8:30 am - 9:30 am "Steam System Efficiency and Flash Recovery"
Jeff Reed, *Spirax Sarco*
- 9:40 am - 10:40 am "Combined Heat & Power Applications"
Patti Case, *Intermountain CHP Center and ETC Group*
- 10:50 am - 11:50 am "Increase Every Fan System Efficiency by 5%:
Dispelling the myths about direct drive and VFD systems"
Jeff Grant, *Long Building Environments*
- 12:00 pm - 1:30pm Utah ASHRAE Lunch Meeting
"Communication that Works"
Kurt Weiland, *Jefferson Smith*