

ASHRAE BLUEPRINT

March 2008

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PRESIDENT'S MESSAGE

Kasey Abbott

We have a two for the price of one opportunity for you on Wednesday March 5. Todd Brown of McQuay will be updating us over lunch on what is happening with refrigerants in light of the Montreal Protocol update. He will then give a two hour technical seminar, see below for additional information. Speaking of technical seminars there are several others coming up that I would like to highlight:

Geothermal Heat Pump Workshop on March 20-21. See attached brochure for additional information.

ASHRAE Satellite BroadcastWebcast on April 16. See attached brochure for additional information. For those not wishing to sign up for the webcast you may also view the broadcast at the local Trane office. Please contact Rob Marshall for further information.

ASHRAE distinguished lecturer Carl Lawson will be putting on a commissioning workshop on Friday April 18 from 8 AM to 2:30 PM at the Westward Ho. Cost will be \$100. More details to follow.

Please RSVP for the March 5th lunch meeting to jill.beatty@ddccontrol.com by Friday. Or call her at 575.3739 if that is more convenient. Lunch buffet will be served at the Westward Ho starting at 11:30 AM, with the program running from 12 to 1 PM. Cost for lunch is \$12.

See you at the Westward Ho next Wednesday for lunch.

ASHRAE Technical Seminar – Scholarship Fund Raiser Kasey Abbott

Todd Brown from McQuay will be conducting a technical seminar from 1 – 3 PM after the lunch program on March 5.

Todd will be speaking on the advantages of low flow, variable primary flow, chiller-tower optimization and chillers in series-series counterflow.

Mr. Brown is donating his time since this is a fund raiser for SD ASHRAE Scholarships. Individuals that attend the seminar can choose which scholarship fund to donate to (ASHRAE SDSU Endowment or the ASHRAE SETI/MTI Endowment).

Please make checks out to either:

- SDSU Foundation – the SDSU Foundation will also accept credit card numbers
- Sioux Falls Area Community Foundation

Cost for the seminar is \$50. Students may attend for free. Certificates will be available for those seeking credit for PDH hours. This contribution is also tax deductible and you will receive recognition from the foundation and the SD Chapter of ASHRAE.

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Variable Primary Pumping and Chiller/Tower Optimization

Todd Brown is Business Development Manager for McQuay International, a manufacturer of HVAC equipment. He holds a Bachelor of Science in Mechanical Engineering from the University of Iowa and has over 20 years experience in sales, marketing, and product management of HVAC equipment. His career has concentrated on the applied use of chillers and chiller systems he is an ASHRAE Member.

Todd has presented internationally on various chilled water subjects such as refrigerants, variable primary flow, low flow systems, chillers in series-series counterflow, Chiller-Tower Optimization and chiller technology.

ATTENTION YOUNG ENGINEERS OF ASHRAE

It's that time of year again – YEA Leadership Weekend (YLW) in Atlanta, GA!

YLW will be held May 2 – 4, 2008, in Atlanta, GA, at the Embassy Suites hotel in Buckhead. Please visit the YEA site at: www.ashrae.org/yea for more information including more information, the registration form, and testimonials from last year attendees. The detailed schedule will be posted on the web by March 10.

It is important for **chapters**, **regions**, and **employers** to support the integration of our young members into Society and build the future leaders of the industry. YLW is a great way to get your young professional members age 35 and younger involved.

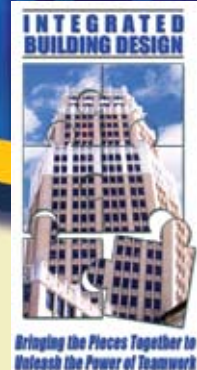
REGISTRATION CLOSSES APRIL 4, 2008. Please email apruett@ashrae.org if you have any questions.

YLW is sponsored by the Young Engineers in ASHRAE Committee, whose primary objective is to enhance our member benefits for young professional ASHRAE members by identifying activities and services focused on their needs.

ASHRAE Satellite Broadcast/Webcast



April 16, 2008
1:00–4:00 P.M. EDT



INTEGRATED BUILDING DESIGN: Bringing the Pieces Together to Unleash the Power of Teamwork

This broadcast explains what you and other members of the building team must do to advance high-performance buildings with improved design, construction and operations processes. Buildings that meet the needs of occupants and truly achieve sustainability objectives can only be created if the building community shares its knowledge and experiences. Join ASHRAE in learning more about your role in integrated building design and helping to create a sustainable built environment.

This free program is sponsored by ASHRAE's Chapter Technology Transfer Committee. For complete details, visit our website at www.ashrae.org/ibdbroadcast.

How to Participate

- You may host a broadcast site for your colleagues.
- You may register to view with others at a site near you.
- You may register to view the Webcast on your PC.

PDH Credits

Three (3) Professional Development Hours or three (3) AIA Learning Units will be awarded to viewers who complete the "Participant Reaction Form" following the broadcast.

About the Presenters

Kent Peterson, ASHRAE's 2007-2008 president, will introduce the broadcast program

- Walter Grondzik, Architectural Engineer and Professor in the Department of Architecture, Ball State University, Muncie, Indiana—"What is Integrated Building Design?"
- Charles Gullledge III, P.E., MAI, CSI, ASHRAE Distinguished Lecturer, Senior Mechanical Engineer, AC Corporation, Greensboro, North Carolina, "The Integrated Design Process"
- Drury B. Crawley, Technology Development Manager, U.S. Department of Energy, Washington, DC—"Achieving Net-Zero Energy Buildings Through Integrated Building Design?"
- Paul Torcellini, Team Leader for Commercial Buildings Research, National Renewable Energy Laboratory, Golden, Colorado—"Bringing the Pieces Together—Actual Applications"

New Member Discount

Non-member participants will be given a \$50 discount for applying for ASHRAE membership. A special membership application will be available at satellite broadcast sites or by request at membership@ashrae.org.

Registration

Online registration for satellite site coordinators and Webcast viewers will begin March 1, 2008, at www.ashrae.org/ibdbroadcast. Satellite viewer registration will begin March 15, 2008. There is no fee for registration. If you have any questions, call 678-539-1139 or email ashrae-satellitebroadcast@ashrae.org.



Geothermal Heat Pump Workshop

March 20-21, 2008, Sioux Falls, S.D.

March 20: 9 a.m. – 5:30 p.m.

March 21: 7:30 a.m. – noon

Holiday Inn — City Centre

100 West 8th Street

Sioux Falls, S.D. 57104

Geothermal heat pumps are a clean, “green,” heating-and-cooling system that could potentially save consumers, utilities and the nation trillions of Btus of energy for space conditioning and water heating.

Attendees will:

- Learn how to use Western’s *Geothermal Heat Pump Handbook* and accompanying calculators to determine benefits and costs of GHP programs
- Hear case studies from utilities with GHP program experience

- Find out about the latest developments in equipment, drilling and service delivery

The second day is an optional workshop that goes into greater detail on GHP applications and economics.

AGENDA

March 20

9:00 a.m.	Registration
9:30	Opening remarks: Tom Holt, East River; Mike Radecki, Western; Mike Pehosh, NRECA
10:00	Preview of Day Two: Guy Nelson, UGWG Team Leader
10:15	New Technologies: Dr. Charles Remund, South Dakota State University
11:00	Break
11:15	Case histories: Brandon Darnell, Energy Dynamics
12:15 p.m.	Lunch presentation: Georg Schultz, USDA – Rural Utility Service
1:30	GHP analytical tools: Katherine Johnson, Market Development Group
2:15	Breakout sessions (residential, commercial and utility business cases)
3:15	Break
3:30	Breakout session debrief and field trip
5:30	Adjourn

March 21 (optional)

7:30 a.m.	Continental breakfast
8:00	“A Tale of Two Buildings” side by side building energy use is compared, one using GHP and the other using conventional HVAC.
8:30	Additional guidebook and worksheet training using utility data
10:00	Break
10:15	GHP technologies in waste heat recovery applications
10:45	Performance History of GHPs: Steve Wegman, S.D. Public Utilities Commission
11:00	Product and services panel
Noon	Adjourn

Sponsored by

Presented by



Registration via check:

March 20 Workshop only _____ @ \$50 per person _____
March 21 Workshop only _____ @ \$25 per person _____
Total _____

Name _____

Organization and title _____

Address _____

State and zip _____

Phone _____ Fax _____ E-mail _____

**Make checks payable to
East River Electric Power Cooperative
and mail to:**

Roger Wubbena
East River Electric Power Cooperative
PO Box 227
Madison, SD 57042-0227

Hotel Accommodations

Holiday Inn — City Center
100 West 8th Street
Sioux Falls, SD 57104
800-465-4329
Fax: 605-339-3724
fsddt@jgh.com

The event is based on the successful workshop in Bismarck, N.D., in September, 2007.

A similar workshop is scheduled in Redwood Falls, Minn., March 17–18.

Questions about either workshop?

Contact Guy Nelson, Utility Geothermal Working Group, 541-994-4670, energyguy@utilityforum.com.