



BLACK HILLS ASHRAE CHAPTER

Technology for a Better Environment

President

Michael Heinrich

Vice President and Secretary

Mike Mueller

Treasurer

Judy Oakley

Membership

Dave Riemenschneider

Resource Promotion

Chad Miller

Technology Transfer

Allen Freeland

Student Activities

Mike Malone

Historian

Dave Berg

Newsletter

Editor/Webmaster

David Dowling

Program:

9th Annual Electro-Technology Expo

Thursday, January 15, 2009

The Ramkota Best Western Inn - Rapid City, SD

10:00am-9:00pm

This month we will not have a regular meeting; instead you are all invited to this all electric event for builders, developers, realtors, electrical contractors, HVAC professionals, engineers and architects. In addition to several workshops, there will be over 20 exhibitors from our industry to showcase new products and answer questions.

*Please see the flyer with this newsletter for more information. Additionally there will not be a meeting for this month.

President's Message

Well, I don't know about everyone else that was at last month's meeting, but for about 3 seconds I thought our group was pretty special...then I realized that it was our speaker they were there for. We were lucky to be able to get someone so knowledgeable to come and speak at our meeting. Thanks Mike Mueller for setting that up!

Holidays are now over...time to lose the added on bodily accessories and buy anything Santa wasn't aware he should have brought. Since they are over, I guess it is time to get back to work...

Michael

Upcoming Events

Make plans now to attend the ASHRAE 2009 Winter Conference held in Chicago January 24-28, 2009. Chicago is one of the most recognizable skylines in the United States and has long-standing status as a livable urban center. This city has stood the test of time making it the perfect backdrop for this year's Winter Conference theme of Sustainable Urban Design, Engineering Tomorrow...Today. With its windy atmosphere and lake shoreline, Chicago is a reminder that resources must be conserved and environments respected even in urban settings. Obtain more information for the ASHRAE 2009 Winter Conference at www.ashrae.org.

Membership

If anyone knows of someone who might be interested in becoming a member of ASHRAE, contact Dave Riemenschneider at 348-7455 or email him at membershippromotion@blackhillsashrae.org or an application.

CHAPTER MAY NOT ACT FOR THE SOCIETY

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

A N I N T E R N A T I O N A L O R G A N I Z A T I O N



BLACK HILLS ASHRAE CHAPTER

Technology for a Better Environment

Chapter Programs Schedule

Below is a listing of this year's programs. If any has any suggestions for programs, please call or email me below:

January 15, 2009	Electrotech Expo	Multiple
February 19, 2009	Chilled Beams	TBD
March 19, 2009	Tour of Civic Center Expansion/Ice Rink	TBD
April 16, 2009	Satellite Broadcast	TBD
May 21, 2009	Tour of New Hospital Chiller Plant	TBD
July 2009	Golf Tournament	

Send program suggestions to: Allen Freeland
(P) 737-3800
(F) 737-3859
programs@blackhillsashrae.org

Research Promotion

ASHRAE is currently the largest sponsor of research for the HVAC industry. Currently region IX is the largest benefactor from ASHRAE. All money donated to research is used only for that purpose. Money collected for research is used strictly for that. All other expenses come out of membership dues.


2008-2009 RESEARCH PROMOTION CONTRIBUTORS

Black Hills Corporation	Northwest Pipe Fittings
West Plains Engineering	Insulation Enterprises Inc.
John W Hey & Company	O'Connor Company
Equipment Service Professionals	Doug Feterl
Judy Oakley	Joel Porch
Michael Heinrich	Malone Engineering Inc.
Steven Freeland	Skyline Engineering, LLC
Environmental Building Systems	Precision Mechanical LLP
Trane	

CHAPTER MAY NOT ACT FOR THE SOCIETY

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

A N I N T E R N A T I O N A L O R G A N I Z A T I O N



2009 Electro Technology Expo

January 15, 2009 Ramkota Best Western Inn Rapid City, South Dakota

Electro
Technology
Expo
Committee:

Keith Gade
Tom Berry
Lisa Seaman
Veronica Kusser
Willy Nohr
Robert Raker
Cheryl Bettmeng
Jeff Easton
Mutch Usera

You're invited to be a part of the ninth annual Electro-Technology Expo

The ninth annual Electro-Technology Expo is scheduled for Thursday, January 15, 2009 at the Ramkota Best Western Inn in Rapid City, South Dakota.

The Expo is for area large commercial and industrial companies, professional builders, realtors, engineers, architects and area contractor trade professionals. The event is sponsored by Black Hills Power and West River Electric Association.

"We are excited about this year's event, as we will have speakers from across the country promoting electric technologies," said Mutch Usera, Director of Energy Services and External Affairs at Black Hills Power. "We anticipate a bigger event with increased exhibitor participation and new topics, as well as popular topics that were a big hit last year."

Expert speakers from the building and energy industry will discuss topics and demonstrate technologies during four concurrent sessions that begin at 10 a.m. run through 6 p.m. The Expo will conclude with the Black Hills Home Builders Association membership mixer and dinner at 6 p.m., featuring guest speaker Dave Bunn of Build Green Inc.

The Expo will host speakers on residential and commercial technologies and applications related to energy management, power quality, electrical codes, lighting efficiency and electric heating and cooling technologies.

Exhibitors from manufacturers, distributors and professional organizations will promote their products and services for electric technologies for homes and businesses during the Expo. Some training sessions will meet continuing education credits for electricians to help meet their certification requirements.

Cost for this one-day event is \$20, and lunch is included. To register, contact Jeff Easton by phone at 605-721-1269 or e-mail at jeff.easton@blackhillspower.com or log on to www.blackhillspower.com.



2009 Electro Technology Expo -- Presentation Schedule

TIME	HVAC ROOM 1	ELECTRICAL ROOM 2	COMMERCIAL ROOM 3	GENERAL ROOM 4
SESSION 1 10:00 a.m. to 11:30 a.m.	IN-FLOOR HEATING PANEL Jeff Medley, Ferguson Enterprises Hans Engholm, Easy Heat Don Mordal, Preferred Energy Solutions Inc.	RADIANT HEAT PANEL Kirk Sharp, Radiant Systems Jim Deichert, Steffes Company Lon Garrison, ConvectAir	NEW WIND ENERGY INTERCONNECTION ORDINANCE STANDARDS PANEL Tom Berry, Black Hills Power Dave Semerad, West River Electric Association Monica Heller, City of Rapid City Bill Rich, Meade County Amber Vogt, Lawrence County Dan Jennison & Lysann Zeller, Pennington County	HOME PERFORMANCE ASSESSMENT: STRATEGIES TO IMPROVE COMFORT, REDUCE RESIDENTIAL ENERGY COSTS & GREEN EXISTING HOMES Tiger Adolf, Wyoming Energy Council
LUNCH 11:30 a.m. to 1:00 p.m.	LUNCH SPEAKER: Dave Bunn, Build Green Inc.			
1:00-1:15	BREAK			
SESSION 2 1:15 p.m. to 2:15 p.m.	DEMAND CONTROLLERS AND HVAC SYSTEMS Keith Gade, Black Hills Power	LIGHTING RETROFITS Rich Fair, Phillips	CHILLED BEAM TECHNOLOGY Dave Reynolds, Halton Company	RENEWABLE ENERGY PANEL Kenny Romero, Black Hills Energy Mark Holstein, GenPro Energy Solutions Phil Bangs, GenPro Energy Solutions
2:15-2:30	BREAK			
SESSION 3 2:30 p.m. to 3:30 p.m.	HEAT PUMP TROUBLESHOOTING Dan DeJong, Black Hills Power	LINE SERVICES & EXTENSION STANDARDS Alan Van Bochove, Black Hills Power Matt Schmahl, West River Electric Association	L.E.E.D. CHANGES Heather Rederth, FourFront Design, Inc. Garry Black, FourFront Design Inc.	WATER HEATING TODAY & WHAT IS COMING IN 2009 TO 2010 John Richards, Rheem-Marathon Water Heaters
3:30-3:45	BREAK			
SESSION 4 3:45 p.m. to 4:45 p.m.	RESIDENTIAL GEOTHERMAL APPLICATIONS Paul Bony, ClimateMaster	ELECTRICAL CODE 101 Marlin Alt, South Dakota Electrical Inspectors Office (Two 1-hour NEC Code Sessions)	NEW TECHNOLOGY IN INDOOR CLIMATE SYSTEMS Dave Reynolds, Halton Company	SMART METERING Ron Horstman, Western Area Power Administration
4:45-5:00	BREAK			
SESSION 5 5:00 p.m. to 6:00 p.m.	ENERGY EFFICIENCY & HVAC SYSTEMS Ron Horstman, Western Area Power Administration	ELECTRICAL CODE 101 (continued)	ENERGY MANAGEMENT SYSTEMS John Haaland, Honeywell	FLIR TECHNOLOGY Jill Wagner, FLIR Systems Inc. Michael McKibben, FLIR Systems Inc.
6:00 p.m. to 9:00 p.m.	BHHBA RECEPTION & DINNER Reception: 6:00 to 7:00 p.m. Dinner: 7:00 to 9:00 p.m.	Keynote Speaker: Dave Bunn, Build Green Inc.		



BLACK HILLS ASHRAE CHAPTER

Technology for a Better Environment

President

Michael Heinrich

Vice President and Secretary

Mike Mueller

Treasurer

Judy Oakley

Membership

Dave Riemenschneider

Resource Promotion

Chad Miller

Technology Transfer

Allen Freeland

Student Activities

Mike Malone

Historian

Dave Berg

Newsletter

Editor/Webmaster

David Dowling

Program:

Chilled Beams

Thursday, February 19, 2009

SDSMT Hardrock Room - Rapid City, SD

12:00 - 1:00

Mark Ford is the Product Manager for the Commercial Applied Air Terminal units which includes the Overhead VAV products, Under Floor AXIS™ system, Moduline® Terminals, Induction Units and the new Chilled Beams product line.



He joined Carrier in 2004 as the Product Manager for Fan Coils and Unit Ventilators and spent 2 years developing those product lines. Prior to Carrier, Mark was a product design engineer with Ford Motor Company for 10 years on many vehicle platforms including the development of a hybrid SUV.

Mark holds a BS degree in Mechanical Engineering from the University of Pittsburgh, an MS degree in Mechanical Engineering from the University of Virginia and a MBA degree from the Tuck School of Business at Dartmouth College.

President's Message

Well, sad news group. South Dakota School of Mines and Technology has decided not to do the Rube Goldberg Contest this year. Vi Stoltz is no longer at the school and the person currently in charge sounds like she is a bit overwhelmed with setting up Engineer's Week. Also, within the past couple of years the national contest organizers have required an entry fee for all contestants, whether or not they go beyond the local level. The cost per team is \$300. That makes the contest a \$1200 event since there is an average of four teams. Our current fiscal allotment for this is \$100 in prize money. Within the next couple months, we should discuss this as an organization to determine everyone's thoughts about future events.

Michael

Upcoming Events

Make plans now to attend the ASHRAE 2009 Annual Conference June 20-24, Louisville, Kentucky. This year's theme will be "Optimal Air Quality Management." Papers and programs will be presented on the latest developments in improving indoor air quality, ranging from comfort to energy savings for different applications. Obtain more information for the ASHRAE 2009 Annual Conference at www.ashrae.org.

CHAPTER MAY NOT ACT FOR THE SOCIETY

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

AN INTERNATIONAL ORGANIZATION



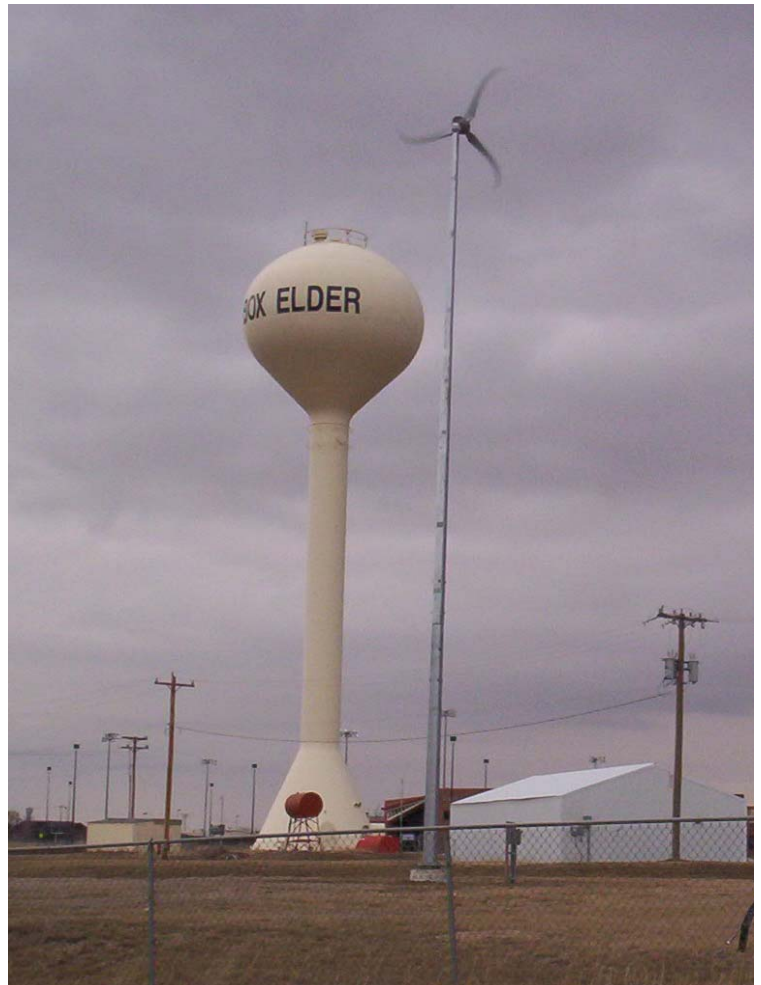
BLACK HILLS ASHRAE CHAPTER

Technology for a Better Environment

New Wind Turbine at Douglas School District

The Wind for Schools Project has recently benefited Douglas School District in Box Elder. On January 23, 2009 a Skystream 3.7 wind turbine was installed just south of Douglas High School. An invitation was received in January of 2008 from the SD Public Utilities Commission and a competitive application process began with 32 districts applying. Douglas was awarded one of the eight wind turbines in South Dakota. This program started in Colorado, which is the home of a primary sponsor, the National Renewable Energy Laboratory. In 2008 the program expanded to five other Midwestern states, including South Dakota.

The goals of the program primarily focus on engaging rural America, through teachers and students, to understand the use of alternative energies such as wind and their potential economic benefits. The 2.4 kW output turbine will not offset much power use at the districts, but it will serve as a laboratory and instructional tool for decades. Our speaker for our December 2008 monthly meeting, Steve Wegman, was just named the Executive Director of the South Dakota Wind Energy Association and is the Wind for Schools facilitator in the state. More information can be found at: www.sdwind.com/wac



CHAPTER MAY NOT ACT FOR THE SOCIETY

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

A N I N T E R N A T I O N A L O R G A N I Z A T I O N



BLACK HILLS ASHRAE CHAPTER

Technology for a Better Environment

Chapter Programs Schedule

Below is a listing of this year's programs. If any has any suggestions for programs, please call or email me below:

February 19, 2009	Chilled Beams	Mark Ford
March 19, 2009	Tour of Civic Center Expansion/Ice Rink	TBD
April 16, 2009	Satellite Broadcast	TBD
May 21, 2009	Tour of New Hospital Chiller Plant	TBD
July 2009	Golf Tournament	

Send program suggestions to: Allen Freeland
(P) 737-3800
(F) 737-3859
programs@blackhillsashrae.org

Research Promotion

ASHRAE is currently the largest sponsor of research for the HVAC industry. Currently region IX is the largest benefactor from ASHRAE. All money donated to research is used only for that purpose. Money collected for research is used strictly for that. All other expenses come out of membership dues.

Membership

If anyone knows of someone who might be interested in becoming a member of ASHRAE, contact Dave Riemenschneider at 348-7455 or email him at membershippromotion@blackhillsashrae.org or submit an application.

CHAPTER MAY NOT ACT FOR THE SOCIETY

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

A N I N T E R N A T I O N A L O R G A N I Z A T I O N



BLACK HILLS ASHRAE CHAPTER

Technology for a Better Environment

President

Michael Heinrich

Vice President and Secretary

Mike Mueller

Treasurer

Judy Oakley

Membership

Dave Riemenschneider

Resource Promotion

Chad Miller

Technology Transfer

Allen Freeland

Student Activities

Mike Malone

Historian

Dave Berg

Newsletter

Editor/Webmaster

David Dowling

Program:

Tour of Civic Center Expansion/Ice Rink

Thursday, March 19, 2009

Lunch to be on your own

Civic Center Ticketing Office - Rapid City, SD

12:00 - 1:00

The tour guide, Chuck Palmer, has been active in the mechanical engineering field since 1988. He has experience in mechanical design, specification, and construction supervision of plumbing, heating and chilled water piping systems; boilers and piping system; air and water cooled chillers, ventilation, air conditioning, fire protection, temperature control, building automation systems and thermal displacement ventilation. Chuck has worked on new and remodeled spaces for health care, education and multi-use facilities.

Did You Know?

Our January 21, 1999 meeting was on Y2K Compliance presented by Greg Mumm!

President's Message

The stock market continues to fall. The rest of the country has been hurting for some time. We have for the most part been lucky within our bubble. Now two major factories within our area are closing. The local housing market has also slowed down. Yet we are lucky within our area because there still appears to be a good commercial building spree, mostly on the government side. Several buildings at the South Dakota School of Mines are either being built or existing ones renovated. Ellsworth Air Force Base is a flurry with money to send. Hopefully those can carry some of the weight of the other downturns, maybe not completely, but enough to dampen the overall hurt.

This month's meeting will be a tour of the new ice arena. Thanks Chuck for getting this together. It will be a joint meeting with RSES. Next month's meeting will be the viewing of an ASHRAE satellite broadcast. The location of this will be determined shortly. We may also go view Mike Mueller's new toy, which was described within one of the last newsletters either next month or in one of the upcoming months. That has yet to be fully coordinated. See you at the meeting!

Michael

Upcoming Events

Make plans now to attend the ASHRAE 2009 Annual Conference June 20-24, Louisville, Kentucky. This year's theme will be "Optimal Air Quality Management." Papers and programs will be presented on the latest developments in improving indoor air quality, ranging from comfort to energy savings for different applications. Obtain more information for the ASHRAE 2009 Annual Conference at www.ashrae.org.

CHAPTER MAY NOT ACT FOR THE SOCIETY

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

AN INTERNATIONAL ORGANIZATION



BLACK HILLS ASHRAE CHAPTER

Technology for a Better Environment

Chapter Programs Schedule

Below is a listing of this year's programs. If any has any suggestions for programs, please call or email me below:

March 19, 2009	Tour of Civic Center Expansion/Ice Rink	Chuck Palmer
April 16, 2009	Satellite Broadcast	TBD
May 21, 2009	Tour of New Hospital Chiller Plant	TBD
July 2009	Golf Tournament	

Send program suggestions to: Allen Freeland
(P) 737-3800
(F) 737-3859
programs@blackhillsashrae.org

Research Promotion

ASHRAE is currently the largest sponsor of research for the HVAC industry. Currently region IX is the largest benefactor from ASHRAE. All money donated to research is used only for that purpose. Money collected for research is used strictly for that. All other expenses come out of membership dues.

Membership

If anyone knows of someone who might be interested in becoming a member of ASHRAE, contact Dave Riemenschneider at 348-7455 or email him at membershippromotion@blackhillsashrae.org or submit an application.

CHAPTER MAY NOT ACT FOR THE SOCIETY

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

A N I N T E R N A T I O N A L O R G A N I Z A T I O N



BLACK HILLS ASHRAE CHAPTER

Technology for a Better Environment

President

Michael Heinrich

Vice President and Secretary

Mike Mueller

Treasurer

Judy Oakley

Membership

Dave Riemenschneider

Resource Promotion

Chad Miller

Technology Transfer

Allen Freeland

Student Activities

Mike Malone

Historian

Dave Berg

Newsletter

Editor/Webmaster

David Dowling

Program:

ASHRAE Satellite Broadcast – Clean Lean and Green

Wednesday, April 22, 2009

Skyline Engineering, LLC - Rapid City, SD

Bring cash so the office assistant can pickup Jimmy John's during the Satellite broadcast; otherwise lunch will be on your own.

11:00 AM – 2:00 PM

Board of Governors meeting at 10:30



Continued on page 2.

The Student Branch is on its way!!

Congratulations to the newly elected officers of the SDSM&T Student Branch of ASHRAE.

President: Shane Grimme

Vise President: Aaron Aristeo (acceptance pending)

Secretary/Treasurer: Scott Anderson

ASHRAE – API 24th Annual Golf Outing

July 23rd

Elks Golf Course

Mark your Calendars, See attached flyer.

CHAPTER MAY NOT ACT FOR THE SOCIETY

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

AN INTERNATIONAL ORGANIZATION



BLACK HILLS ASHRAE CHAPTER

Technology for a Better Environment

CLEAN, LEAN, AND GREEN

THIS IS OUR PANEL OF EXPERTS



MARTHA HEWETT, Director of Research, Center for Energy & Environment, Minneapolis, MN
"PRACTICAL, PROVEN STRATEGIES TO DELIVER BETTER IAQ"



H.E. BARNEY BURROUGHS, owner and CEO of Building Wellness Consultancy, Inc, Atlanta, GA
"KEEPING BUILDINGS CLEAN: AVOIDING AND BUILDING CONTROL OF CONTAMINANTS TO ATTAIN AND MAINTAIN IAQ ACCEPTABILITY"



JOHN MCFARLAND, P.E., Director of Engineered Systems, WorkingBuildings, LLC, Atlanta, GA,
"INTEGRATING GOOD IAQ INTO THE DESIGN & CONSTRUCTION PROCESS"



HOY BOHANNON, P.E., Owner and Manager of Bohannon Engineering PLLC, Winston-Salem, NC
"IMPROVING YOUR IAQ AND REDUCING YOUR ENERGY COSTS THROUGH HVAC DESIGN"



GEORGE DUBOSE, Certified General Contractor, Liberty Building Forensics Group, Orlando, FL
"AVOIDING COSTLY IAQ PROBLEMS IN THE BUILDING ENVELOPE"



IAQ FOR SUSTAINABLE BUILDINGS

WHEN IS THE BROADCAST/WEBCAST?

April 22, 2009 from 1:00 – 4:00 P.M. EDT

HOW CAN I PARTICIPATE?

- Host a satellite broadcast site for your colleagues
- View the satellite broadcast at a site, or
- Register to view the webcast on your PC

HOW DO I REGISTER?

Online registration for satellite broadcast site coordinators and webcast participants will begin March 2, 2009 at <http://www.ashrae/iaqbroadcast.com>. There is no fee for registration. If you have any questions, e-mail us at ashrae-satellitebroadcast@ashrae.org or call us at 678-539-1206.

WHAT WILL I LEARN?

This broadcast will challenge the building community to use enhanced IAQ practices to create a more sustainable built environment. You will learn from our panel of experts how to:

- Build Good IAQ into the Design and Construction Process
- Avoid Costly IAQ Problems in Your Buildings
- Enhance IAQ with Common Sense and Proven Technologies
- Improve ROI with Better IAQ
- Apply What We Already Know and Don't Do

The panel shares the combined knowledge and experience of over 100 industry professionals who contributed to the *Indoor Air Quality Guide: Best Practices for Design, Construction and Commissioning*. This Guide is being developed through the collaboration of ASHRAE, the American Institute of Architects (AIA), Building Owners and Managers Association International (BOMA), U.S. Environmental Protection Agency (EPA), Sheet Metal and Air Conditioning Contractors' National Association (SMACNA) and U.S. Green Building Council (USGBC).

CAN I EARN PDHs?

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

MORE ABOUT THE BROADCAST:

This free broadcast/webcast from the studio of WETA Public Television in Arlington, VA is intended to reach a cross section of professionals, including design engineers, architects, contractors, building owners, developers, and facility managers. DVDs will be produced and made available for sale and use after the broadcast. Please visit www.ashrae.org/bookstore or call 1-800-527-4725 (US/Canada) for more information.

HOW CAN I BECOME AN ASHRAE MEMBER?

We encourage you to join ASHRAE, a leader in sustainability and the source for the latest technology in HVAC&R. A special membership application will be available at satellite broadcast sites or by request at membership@ashrae.org. To find out more about ASHRAE membership, visit www.ashrae.org/membership.



CHAPTER MAY NOT ACT FOR THE SOCIETY

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

AN INTERNATIONAL ORGANIZATION



BLACK HILLS ASHRAE CHAPTER

Technology for a Better Environment

Upcoming Events

Make plans now to attend the ASHRAE 2009 Annual Conference June 20-24, Louisville, Kentucky. This year's theme will be "Optimal Air Quality Management." Papers and programs will be presented on the latest developments in improving indoor air quality, ranging from comfort to energy savings for different applications. Obtain more information for the ASHRAE 2009 Annual Conference at www.ashrae.org.

Chapter Programs Schedule

Below is a listing of this year's programs. If anyone has any suggestions for programs, please call or email me below:

April 22, 2009	Satellite Broadcast	See Page 2
May 21, 2009	Tour of New Hospital Chiller Plant	TBD
July 2009	Golf Tournament	

Send program suggestions to: Allen Freeland
(P) 737-3800
(F) 737-3859
programs@blackhillsashrae.org

Research Promotion

ASHRAE is currently the largest sponsor of research for the HVAC industry. Currently Region IX is the largest benefactor from ASHRAE. All money donated to research is used only for that purpose. Money collected for research is used strictly for that. All other expenses come out of membership dues.

Membership

If anyone knows of someone who might be interested in becoming a member of ASHRAE, contact Dave Riemenschneider at 348-7455 or email him at membershippromotion@blackhillsashrae.org or submit an application.

CHAPTER MAY NOT ACT FOR THE SOCIETY

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

A N I N T E R N A T I O N A L O R G A N I Z A T I O N

**24th ANSHRAE – API
ANNUAL GOLF OUTING & FUND RAISING
SIGN UP FOR YOUR
“GOLF STIMULUS PACKAGE”**

July 23, 2009



**Elks Golf Course
Rapid City, South Dakota**

**“BEST BALL SCRAMBLE”
2 Drives per Player
Per Nine Holes**



**Tee-Off - 7 a.m. to 12:00 p.m.
Inflation Special**



**\$65 Entry Fee – Includes green fees, cart rental,
Refreshments on course, dinner for one
Location: Elks Supper Club – Lower Level
Social Hour: 5:00 p.m.**

Awards and Dinner: 6:00 p.m.

**Dinner Choices: Steak or Chicken w/trimmings
Additional Dinners: \$15 (wife, friends welcome)**

NO LAST MINUTE CHANGES!

Send confirmation, checks, foursome and requested starting time(s) to:

**Tim Elliott
Balancing Professionals, Inc.
1221 Concourse Drive
Rapid City, SD 57703
(605) 348-8298
(605) 348-9215 (Fax)
telliott@oconnorcorc.com**

**Tom Kirchoff
API
5008 API Road
Black Hawk, SD 57718
(605) 787-6781
(605) 787-4017 (Fax)
tom.kirchoff@apidistribution.us**

PRIZES & DONATIONS NEEDED

Proud Hole Sponsors (\$50.00)

Thank you to all the previous sponsors – We again met our scholarship goal!



BLACK HILLS ASHRAE CHAPTER

Technology for a Better Environment

President

Michael Heinrich

Vice President and Secretary

Mike Mueller

Treasurer

Judy Oakley

Membership

Dave Riemenschneider

Resource Promotion

Chad Miller

Technology Transfer

Allen Freeland

Student Activities

Mike Malone

Historian

Dave Berg

Newsletter

Editor/Webmaster

David Dowling

Program:

Tour of New Hospital Chiller Plant

Thursday, May 21, 2009

Hospital New Utility Plant, Upper Conference Room - Rapid City, SD
(The entrance is on the westside between the cooling towers)

Pizza to be provided so bring some cash for that.

12:00 AM – 1:00 PM

Mike Blount is a Professional Engineer with Skyline Engineering, LLC. Mike is a 1997 graduate of South Dakota State University, with a BS in Mechanical Engineering, with mathematics as a minor area of study. He has been working in HVAC, plumbing, and fire protection engineering for 12 years, with 9 of those years spent working in Rapid City. Although he is experienced in all aspects of mechanical engineering for all sizes of projects, he enjoys focusing on central plant systems, such as the RCRH Central Utility Plant, including the “lost art” of steam heating systems. He is an active member of ASHRAE, and has served in a variety of Black Hills Chapter offices, including President.

President’s Message

Last meeting of the year...hope everyone enjoyed the programs! We had several interesting ones. It seemed to me like it was a pretty good year in the region. If anyone has any suggestions for programs for next year, please contact Allen Freeland. I’m sure he would be happy for any help!

To change things up slightly for the Golf Tournament, we will be attempting to do most of the information transfer via the website. Tim will still be collecting all money at the outing, but time listings will be indicated on the web site and any modifications can be done through the email address on the website. Please indicate all pertinent data when sending an email to them so that they can do the modifications appropriately.

Chad Miller is now coming close to the end of this year’s begging and pleading period. Anyone who would like to donate to ASHRAE Research, please contact Chad. We did make full circle again, which makes two years in a row. For those that don’t know, we achieve full circle when all the members of the board donate \$100. The donation must be a personal donation and cannot be done by their company. It helps to show our commitment as a board to the continuing advancement of our industry through research grants given out by ASHRAE Headquarters. The money is strictly used for research, with a large majority going to Region IX, which we are a part of.

At the last board of governors meeting, we decided to give out two scholarships this spring to our new ASHRAE Student Branch members. Since we haven’t given one out in quite some time, we will give two out each spring until we have dispersed the remaining unused money. We will also be doing a scholarship this fall to help this out some more. This should help to gain more members to the Student Branch because there really aren’t many students in it, so the chance of getting one is quite good! Thank you Mike Malone for getting the branch set up!

Lastly, thanks to everyone for helping out this year! Being a small chapter, everyone who has ever been a committee chair know the additional work required within our chapter. Thanks again!

Michael

ASHRAE – API 24th Annual Golf Outing

July 23rd - Elks Golf Course

Mark your Calendars, See www.blackhillsashrae.org for details.

CHAPTER MAY NOT ACT FOR THE SOCIETY

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

A N I N T E R N A T I O N A L O R G A N I Z A T I O N



BLACK HILLS ASHRAE CHAPTER

Technology for a Better Environment

Upcoming Events

Make plans now to attend the ASHRAE 2009 Annual Conference June 20-24, Louisville, Kentucky. This year's theme will be "Optimal Air Quality Management." Papers and programs will be presented on the latest developments in improving indoor air quality, ranging from comfort to energy savings for different applications. Obtain more information for the ASHRAE 2009 Annual Conference at www.ashrae.org.

Make plans to attend the Region IX 2009 CRC which will be held in Park City, Utah August 13-15. When you get a glimpse of Park City, you will want to bring your entire family! With over 100 shops and galleries, over 100 bars and restaurants and endless recreation possibilities, there is something for everyone. Obtain more information for the ASHRAE 2009 Annual Conference at <http://utahashrae.org/>.

Chapter Programs Schedule

Below is a listing of this year's programs. If anyone has any suggestions for programs, please call or email me below:

May 21, 2009 Tour of New Hospital Chiller Plant Mike Blount

July 2009 Golf Tournament

Send program suggestions to: Allen Freeland
(P) 737-3800
(F) 737-3859
programs@blackhillsashrae.org

Research Promotion

ASHRAE is currently the largest sponsor of research for the HVAC industry. Currently Region IX is the largest benefactor from ASHRAE. All money donated to research is used only for that purpose. Money collected for research is used strictly for that. All other expenses come out of membership dues.

Membership

If anyone knows of someone who might be interested in becoming a member of ASHRAE, contact Dave Riemenschneider at 348-7455 or email him at membershippromotion@blackhillsashrae.org or submit an application.

CHAPTER MAY NOT ACT FOR THE SOCIETY

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

A N I N T E R N A T I O N A L O R G A N I Z A T I O N



BLACK HILLS ASHRAE CHAPTER

Technology for a Better Environment

President

Michael Heinrich

Vice President and Secretary

Mike Mueller

Treasurer

Judy Oakley

Membership

Dave Riemenschneider

Resource Promotion

Chad Miller

Technology Transfer

Allen Freeland

Student Activities

Mike Malone

Historian

Dave Berg

Newsletter

Editor/Webmaster

David Dowling

Program:

Tour of the Ben French Plant at Black Hills Power

Thursday, September 17, 2009

BHP Service Center – Rapid City, SD

(Additional instructions on next page)

12:00 AM – 1:00 PM

Doug Winkka is the Operations and Maintenance manager for the Ben French Complex and has been with Black Hills Power for 31 years. Frank Hauk is the Operations and Maintenance Supervisor for the Ben French Complex and has been with Black Hills Power for 25 years.

President's Message

Ah, September again. ASHRAE is kicking into gear again. Last year went well, even without much push from me. The student branch was officially started, Research Promotion exceeded goal again and we maintained our membership.

Tom, Tim, and Mitch did an excellent job with the golf outing. API really needs to be commended for their commitment to the golf outing. Although our chapter benefits from it, API is the backbone of the annual golf outing and without them, it would never occur.

CRC attendance was down this year, so we need to do a joint road trip or something next year to get more committee chairs to the event. Society will pay travel for any chapter chairs. It really is a blast and I can only hope some of the younger members who haven't been to one try to go. The Ozarks chapter is hosting it next year, which is at Springfield Missouri. Maybe the fact that the ORIGINAL Bass Pro is there... think about it... they always have excellent technical seminars that provide a great wealth of knowledge. And a fishing trip. And the Nebraska room (yeah!!). Just saying.

For those of you who didn't attend the banquet after the golf tournament, the bartender, Tom Clay, just happened to be one of the scholarship recipients. Don Wishard was the other recipient. I wish I could take credit for the student branch and the scholarships, but I didn't do anything on those items. Mike Mueller and Mike Malone were responsible for planting the seed and starting the student branch. Don Wishard ran with the idea and really organized the start of the student branch. There are a lot of benefits to being a student member; it is really cheap, and there is a reduced price after the student gets out of college and become an associate.

Michael

Upcoming Events

Make plans now to attend the ASHRAE 2010 Winter Conference January 23-27, Orlando, Florida. This year's theme will be "Building Sustainability from the Inside Out." Obtain more information for the ASHRAE 2010 Winter Conference at www.ashrae.org.

CHAPTER MAY NOT ACT FOR THE SOCIETY

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

A N I N T E R N A T I O N A L O R G A N I Z A T I O N

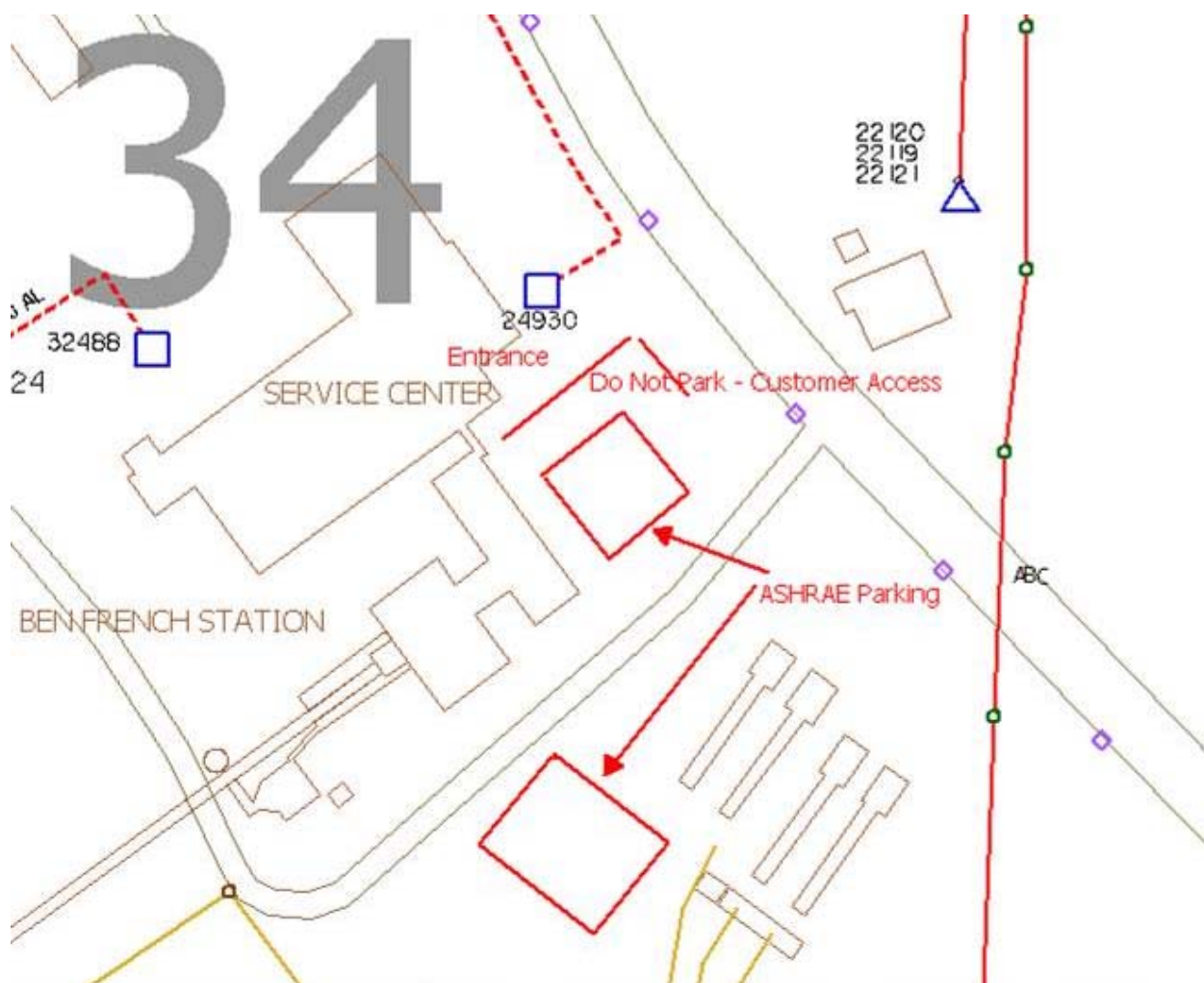


BLACK HILLS ASHRAE CHAPTER

Technology for a Better Environment

Information:

- Please RSVP one day prior to the tour if you plan on attending.
- The Ben French Plant and BHP Service Center are at 409 Deadwood Ave, Rapid City, SD.
- Bring a hardhat for the tour if you have one; BHP has a limited supply of hardhats available.
- Please do not park in customer access parking; park in the locations indicated below.
- BHP will provide lunch which will start at 12:00 noon in BHP's Service Center Training Room; enter through the front entrance.
- Tour will begin at 12:30 and will take approximately 30 minutes.



CHAPTER MAY NOT ACT FOR THE SOCIETY

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

AN INTERNATIONAL ORGANIZATION



BLACK HILLS ASHRAE CHAPTER

Technology for a Better Environment

Chapter Programs Schedule

Below is a listing of this year's programs. If anyone has any suggestions for programs, please call or email me below:

September 17, 2009	Tour of the Ben French Plant at Black Hills Power	Doug Winkka & Frank Hauk
October 15, 2009	Satellite Broadcast	TBD
November 19, 2009	Distinguished Lecturer	TBD
December 17, 2009	ASHRAE 90.1 Panel	TBD
January 2009	TBD	TBD
February 18, 2009	TBD	TBD
March 18, 2009	TBD	TBD
April 15, 2009	TBD	TBD
May 20, 2009	TBD	TBD
Send program suggestions to:	Allen Freeland (P) 737-3800 (F) 737-3859 programs@blackhillsashrae.org	

Research Promotion

ASHRAE is currently the largest sponsor of research for the HVAC industry. Currently Region IX is the largest benefactor from ASHRAE. All money donated to research is used only for that purpose. Money collected for research is used strictly for that. All other expenses come out of membership dues.

Membership

If anyone knows of someone who might be interested in becoming a member of ASHRAE, contact Dave Riemenschneider at 348-7455 or email him at membershippromotion@blackhillsashrae.org or submit an application.

CHAPTER MAY NOT ACT FOR THE SOCIETY

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

A N I N T E R N A T I O N A L O R G A N I Z A T I O N



BLACK HILLS ASHRAE CHAPTER

Technology for a Better Environment

President

Michael Heinrich

Vice President and Secretary

Mike Mueller

Treasurer

Judy Oakley

Membership

Dave Riemenschneider

Resource Promotion

Chad Miller

Technology Transfer

Allen Freeland

Student Activities

Mike Malone

Historian

Dave Berg

Newsletter

Editor/Webmaster

David Dowling

Program:

LEED® NCv2.2 and Green Building HVAC Component Designs

Thursday, October 15, 2009

SDSM&T Surbeck Center Hisega Room – Rapid City, SD

11:00 AM – 12:30 PM

Twila Bartels has a Bachelors Degree in Business Administration and has worked at Ruskin for 37 years.

During her time at Ruskin, she has worked in the Commercial Damper Department as a Product Specialist, OEM Department as Inside Sales Manager, Entry/Customer Service Department as an Order Supervisor, and Industrial Group as a Senior Sales & Applications Engineer – where she was responsible for reviewing specifications, product selections for quoting, training, and marketing of Ruskin’s heavy duty steel and fiberglass products.

She is currently the ERV and Air Door Business Development Manager and is responsible for the sales, marketing, and development of Energy Recovery Ventilators and Commercial and Industrial Air Doors; Ruskin’s two newest product lines.

President’s Message

Those of us trying to keep BH ASHRAE running are behind, but the show will go on! This month’s meeting is a little more product specific then we usually like, but worst case, come and see the new and improved Surbeck! Very groovy....all it is missing is shag carpet!

The Board of Governors is currently discussing upgrading the website to make it a little more foo foo (yes, the technical term....). We are discussing adding a few more features like some payment options, different approach to pictures, maybe some business card advertisements to help pay for the upgrades, etc.

See you at the meeting!

Michael

Upcoming Events

Make plans now to attend the ASHRAE 2010 Winter Conference January 23-27, Orlando, Florida. This year’s theme will be “Building Sustainability from the Inside Out.” Obtain more information for the ASHRAE 2010 Winter Conference at www.ashrae.org.

CHAPTER MAY NOT ACT FOR THE SOCIETY

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

A N I N T E R N A T I O N A L O R G A N I Z A T I O N



BLACK HILLS ASHRAE CHAPTER

Technology for a Better Environment

Chapter Programs Schedule

Below is a listing of this year's programs. If anyone has any suggestions for programs, please call or email me below:

October 15, 2009	LEED® NCv2.2 and Green Building HVAC Component Designs	Twila Bartels
November 19, 2009	Distinguished Lecturer	TBD
December 17, 2009	ASHRAE 90.1 Panel	TBD
January 2009	TBD	TBD
February 18, 2009	TBD	TBD
March 18, 2009	TBD	TBD
April 15, 2009	TBD	TBD
May 20, 2009	TBD	TBD

Send program suggestions to: Allen Freeland
(P) 737-3800
(F) 737-3859
programs@blackhillsashrae.org

Research Promotion

ASHRAE is currently the largest sponsor of research for the HVAC industry. Currently Region IX is the largest benefactor from ASHRAE. All money donated to research is used only for that purpose. Money collected for research is used strictly for that. All other expenses come out of membership dues.

Membership

If anyone knows of someone who might be interested in becoming a member of ASHRAE, contact Dave Riemenschneider at 348-7455 or email him at membershippromotion@blackhillsashrae.org or submit an application.

CHAPTER MAY NOT ACT FOR THE SOCIETY

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

A N I N T E R N A T I O N A L O R G A N I Z A T I O N



BLACK HILLS ASHRAE CHAPTER

Technology for a Better Environment

President

Michael Heinrich

Vice President and Secretary

Mike Mueller

Treasurer

Judy Oakley

Membership

Dave Riemenschneider

Resource Promotion

Chad Miller

Technology Transfer

Allen Freeland

Student Activities

Mike Malone

Historian

Dave Berg

Newsletter

Editor/Webmaster

David Dowling

Program:

Wind and Solar Energy Lunch-N-Learn

Thursday, November 19, 2009

SDSM&T Campus, Surbeck Center – Rapid City, SD
11:30 AM - 12:00 PM – Check-In, Networking, and Lunch
12:00 PM – 1:00 PM – Presentation and Q&A

You may have noticed activity on the hill behind SDSM&T. With a focus on wind and solar energy, and a generous donation from Black Hills Corporation, the university is installing two wind turbines and three photovoltaic panels. With high energy costs, greenhouse gas emissions and increased energy demand, this new outdoor laboratory will help students and area companies with the training and research they need to work in these fields.

Join Dr. Lance Roberts from the Civil Engineering department to hear more about this new laboratory and new venture for SDSM&T. Dr. Roberts will explain the process for installing these renewable energy machines on campus, along with their anticipated use in research and educational activities.

To register, please visit <http://sdmines.sdsmt.edu/learn/professional> or call 394-2693. Pre-registration is required, cost is \$15 per person and the Black Hills ASHRAE Chapter has offered to pay student member's entrance fee.

President's Message

Well...last month didn't turn out as expected, but oh well. We had an interesting group discussion. Jim Keck let us know about this month's even at tech; should be interesting and informative. Thanks for informing us Jim!

Full circle donations for ASHRAE research are coming up quick, so those of us on the board will be donating our Benjamin's here quite shortly. I really do ask that all of the rest of you who benefit from our industry really consider donating. It is a good cause.

Hope to see you all at the meeting!

Michael

Upcoming Events

Make plans now to attend the ASHRAE 2010 Winter Conference January 23-27, Orlando, Florida. This year's theme will be "Building Sustainability from the Inside Out." Obtain more information for the ASHRAE 2010 Winter Conference at www.ashrae.org.

CHAPTER MAY NOT ACT FOR THE SOCIETY

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

A N I N T E R N A T I O N A L O R G A N I Z A T I O N



BLACK HILLS ASHRAE CHAPTER

Technology for a Better Environment

Chapter Programs Schedule

Below is a listing of this year's programs. If anyone has any suggestions for programs, please call or email me below:

November 19, 2009	Wind and Solar Energy Lunch-N-Learn	Dr. Lance Roberts
December 17, 2009	TBD	TBD
January 2009	TBD	TBD
February 18, 2009	TBD	TBD
March 18, 2009	TBD	TBD
April 15, 2009	TBD	TBD
May 20, 2009	TBD	TBD

Send program suggestions to: Allen Freeland
(P) 737-3800
(F) 737-3859
programs@blackhillsashrae.org

Research Promotion

ASHRAE is currently the largest sponsor of research for the HVAC industry. Currently Region IX is the largest benefactor from ASHRAE. All money donated to research is used only for that purpose. Money collected for research is used strictly for that. All other expenses come out of membership dues.

Membership

If anyone knows of someone who might be interested in becoming a member of ASHRAE, contact Dave Riemenschneider at 348-7455 or email him at membershippromotion@blackhillsashrae.org or submit an application.

CHAPTER MAY NOT ACT FOR THE SOCIETY

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

A N I N T E R N A T I O N A L O R G A N I Z A T I O N



BLACK HILLS ASHRAE CHAPTER

Technology for a Better Environment

President

Michael Heinrich

Vice President and Secretary

Mike Mueller

Treasurer

Judy Oakley

Membership

Dave Riemenschneider

Resource Promotion

Chad Miller

Technology Transfer

Allen Freeland

Student Activities

Mike Malone

Historian

Dave Berg

Newsletter

Editor/Webmaster

David Dowling

Program:

**No Meeting This Month
Thursday, December 17, 2009**

President's Message

Well, December went a little too fast, so we missed getting a speaker. On a good note though, it looks like we pretty much have the rest of the year filled up, including a Distinguished Lecturer, former ASHRAE President William Coad in May. The rest of the programs also look good.

In the boxes of old history, I was able to find several interesting articles and information from the past. I have had David post the list of past presidents. It is on the website and also on the next page of the newsletter. Also, there is an article on the Mighty CRC that was in the ASHRAE Journal in 1989 about the CRC Black Hills put on (FYI, I was 14 and David Dowling was 9. Was Mike Malone born yet??). Several leadership recall interviews and company histories. So if you have time, check out our history.

Remember, the Electro Tech Expo is next month. See you there!
Michael

ASHRAE Jobs is the Society's Online Employment Resource

With an exceptionally difficult recruitment market, the ASHRAE Jobs Career Center has been averaging 55 active job postings per month and just over 5,000 monthly job seeking visitors. Recruiters are experiencing, on average, 12 online applications per job posting and have access to just over 1200 resumes that have posted its launch on June 15.

ASHRAE Jobs is not only about the hire. It is the path to a hire. By visiting www.ashraejobs.com, you can search for certain skill sets and demographics that you are "always looking for". It is the place to capture high performers you can use to replace underperformers. This is the place to see if your competitor's people are out searching and interested in you. It is also the place to capture candidates for your Q1 hires because we are only 45 days away.

ASHRAE Jobs understands you do not want to be sold to. But you still have opportunities and problems, and may need a professional to discuss those with. That is what you can expect from ASHRAE Jobs: a no-strings-attached conversation where a representative listens and then makes recommendations whether they include ASHRAE Jobs or not. For more information, visit www.ashraejobs.com, call 888-482-2562 or e-mail John VonHarz at jvonharz@ashraejobs.com. An ASHRAE Jobs representative is available during business hours to discuss your firm's needs and make recommendations on next steps.

Upcoming Events

Make plans now to attend the ASHRAE 2010 Winter Conference January 23-27, Orlando, Florida. This year's theme will be "Building Sustainability from the Inside Out." Obtain more information for the ASHRAE 2010 Winter Conference at www.ashrae.org.

CHAPTER MAY NOT ACT FOR THE SOCIETY

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

AN INTERNATIONAL ORGANIZATION



BLACK HILLS ASHRAE CHAPTER

Technology for a Better Environment

Chapter Programs Schedule

Below is a listing of this year's programs. If anyone has any suggestions for programs, please call or email me below:

December 17, 2009	No Meeting	N/A
January 2010	10 th Annual Electro – Technology Expo	Multiple
February 18, 2010	Air to Air Heat Exchanger	TBD
March 18, 2010	Solar Thermal	Tim Teeslink
April 15, 2010	TBD	Jerry Sipes
May 20, 2010	The Ethics and Economics of Energy	William Coad, DL
Send program suggestions to:	Allen Freeland (P) 737-3800 (F) 737-3859 programs@blackhillsashrae.org	

Black Hills ASHRAE Chapter Past Presidents

<u>Past Presidents</u>	<u>Year</u>	<u>Past Presidents</u>	<u>Year</u>
Ronald R. O'Connell	1976-1977	Timothy M. Elliot	1992-1993
Delmar Aldrich	1977-1978	Timothy M. Elliot	1993-1994
Alvin Harding	1978-1979	Jon Jordan	1994-1995
Bill Craig	1979-1980	Jon Jordan	1995-1996
Dale Skillman	1980-1981	Mark Mayclin	1996-1997
Gunar Dzintars	1981-1982	Mark Mayclin	1997-1998
Gunar Dzintars	1982-1983	Doug Feterl	1998-1999
Mel Gerlach	1983-1984	Doug Feterl	1999-2000
David L. Berg	1984-1985	Jim Keck	2000-2001
David L. Berg	1985-1986	Jim Keck	2001-2002
Robert C. Haefner	1986-1987	David F. Riemenschneider	2002-2003
Timothy M. Elliot	1987-1988	David F. Riemenschneider	2003-2004
Kenneth S. Cole	1988-1989	Mike Blount	2004-2005
Kenneth S. Cole	1989-1990	Mike Blount	2005-2006
Richard B. Clegg	1990-1991	Joel P. Porch	2006-2007
Richard B. Clegg	1991-1992	Joel P. Porch	2007-2008

Membership

If anyone knows of someone who might be interested in becoming a member of ASHRAE, contact Dave Riemenschneider at 348-7455 or email him at membershippromotion@blackhillsashrae.org or submit an application.

CHAPTER MAY NOT ACT FOR THE SOCIETY

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

AN INTERNATIONAL ORGANIZATION