Program:

12th Annual Electro-Technology Expo
Thursday, January 19, 2012 Meeting
Ramkota Inn & Convention Center – Rapid City, SD
1:15 PM - 2:15 PM

Speakers: Michael Heinrich, P.E., LEED AP and Daren Beckloff, P.E., LEED AP. Both Michael and Daren are with West Plains Engineering.

Overview: Topic will include their experiences regarding the use and application of ASHRAE 90.1 with respect to LEED projects they have been involved with.

About the Speakers:
Michael Heinrich, P.E., LEED AP, received a B.S. degree in Mechanical Engineering from South Dakota School of Mines & Technology in 1999. Michael is a Mechanical Engineer and has been with West Plains Engineering for 11 years. He has been involved with the design of plumbing, fire protection, heating, ventilation and air conditioning systems for commercial, institutional and high-density residential facilities.

Daren Beckloff, P.E., LEED AP, received a B.S. degree in Architectural Engineering from Kansas State University in 1991. Daren is an Electrical Engineer and a Project Manager who has been with West Plains Engineering for 5 years and has been a consulting engineer for over 18 years. Daren is involved with the design of power distribution, emergency power systems, lighting, signal, fire alarm and sound systems. In addition to his design capabilities, his project management responsibilities include construction observation and inter-discipline coordination for these types of projects.

* Please see the attached flyer for registration fees and other interesting topics along with their scheduled times.

President's Message

With our theme of leadership this year from Society President Ron Jarnigan, I would like to take this opportunity to recognize a leader within our chapter. Michael Heinrich is our past president, but he did not shut the engine off when his presidency ended. Several times over the last year and a half, Michael has stepped up to bring both ideas and himself to serve our chapter and society. Here is a list of what I can recall:

• Assisting in the teaching of the HVAC class at SDSM&T
• Leading a student tour of the Paleontology Building for students
• Sparking fund raisers for Youth Programs at SDSM&T
• Recruiting a replacement Research Promotion Chair for our chapter
• Volunteering to be our alternate at the 2011 CRC
• Leading a tour of Game, Fish, and Parks new facility
• Current Black Hills ASHRAE Chapter Webmaster and Historian

His latest offering is to present at the Electro-Technology Expo this month immediately after hearing the request to our members from Matt Koupal, BHP&L, at our last chapter meeting. Thank you, Michael, for leading by example!

Mike Mueller
## Chapter Programs Schedule

Below is a listing of this year’s programs. Please call or e-mail suggestions for programs as indicated below:

<table>
<thead>
<tr>
<th>Date</th>
<th>Program Description</th>
<th>Speaker/Contact Info</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 15, 2011</td>
<td>Why Humidify and Humidification technologies</td>
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<tr>
<td>February 16, 2012</td>
<td>ECM Motor Technology</td>
<td>Sam Hammoud</td>
</tr>
<tr>
<td>March 15, 2012</td>
<td>Building Commissioning</td>
<td>Ross D. Montgomery, DL</td>
</tr>
<tr>
<td>April 19, 2012</td>
<td>Flow Control Technology</td>
<td>Joe Schaffer</td>
</tr>
<tr>
<td>May 17, 2012</td>
<td>University Center Tour</td>
<td>TBD</td>
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<td>July 2012</td>
<td>ASHRAE - API Annual Golf Outing &amp; Fund Raising</td>
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*Completed Program*

Send program suggestions to: Sean O’Connor  
(P) 605-348-2033  
(F) 605-348-9215  
programs@blackhillsashrae.org

## Upcoming Events


ASHRAE is pleased to be returning to Chicago for the 2012 Winter Conference. Members have the chance to discuss and examine the latest topics in the building industry, such as high performing buildings and integrated design, as well as participate in technical tours; attend ASHRAE Learning Institute courses; earn professional credits; and obtain ASHRAE certifications.


Also, this year’s Regional IX Dinner will be held at Giordano’s Pizza, 223 W. Jackson Blvd on Monday January 23, 2012 at 6:30 pm. If you would like to attend this event, please contact Rich Rose at rikh@mticontrols.com.

## 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.
12th Annual Electro-Technology Expo
Thursday, Jan. 19, 2012
Ramkota Best Western Inn & Convention Center
Rapid City, South Dakota

Looking for a way to stay plugged in with the changing energy landscape? Then come to the 12th annual Electro-Technology Expo. The 2012 Expo will have exhibits featuring cutting edge energy efficiency technology and workshops given by leading industry and technology experts covering a variety of topics, including:

- Renewable Energy
- LEED Building Standards Updates
- Home Automation
- Electrical Code Classes – Three sessions
- Residential & Commercial Geothermal
- High Efficiency Water Heaters
- Interconnection Updates
- Energy Efficient Lighting
- Home Energy Audits
- Motors & Drives
- Peak Demand Management
- Heat Pump Troubleshooting & Repair

Only $25 to attend!

EXPO SCHEDULE
Thursday, Jan. 19, 2012
- 8:00 a.m. – Doors open for registration and exhibits open
- 8:15 a.m. to 11:45 a.m. – Tract Sessions in Progress
- 11:45 a.m. to 1:00 p.m. – Lunch
- 1:15 p.m. to 5:00 p.m. – Tract Sessions in Progress
- 7:00 p.m. to 9:00 p.m. – NEW FOR 2012! Evening Session of Electrical Code Classes through the South Dakota Electrical Council

FOR MORE INFORMATION
For more information about the Electro-Technology Expo, contact Jeff Easton, Black Hills Power, at jeff.easton@blackhillscorp.com or 605.721.1269 or Robert Raker, West River Electric Association, at rraker@westriver.com or 605.393.1500.
# 2012 Electro-Technology Expo
## Presentation Schedule

**CHECK-IN BEGINS AT 7:30 A.M.**

<table>
<thead>
<tr>
<th>TIME</th>
<th>SYLVAN 1</th>
<th>SYLVAN 2</th>
<th>LEGION 1</th>
<th>LEGION 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>SESSION 1</td>
<td>RESIDENTIAL GEOTHERMAL</td>
<td>ELECTRICAL CODE TRAINING – SESSION 1</td>
<td>UPONOR CLIMATE CONTROL</td>
<td>LEED PROGRAM CHANGES</td>
</tr>
<tr>
<td>8:15 a.m.</td>
<td>Richard Hiles, ClimateMaster (Jeff)</td>
<td>Darwin Jones, South Dakota Electrical Commission (Robert)</td>
<td>Jeff Medley, Ferguson (Keith)</td>
<td>Garry Black, FourFront Design/U.S. Green Building Council (Jeff)</td>
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<tr>
<td>To 9:15 a.m.</td>
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<tr>
<td>9:15-9:30</td>
<td>WELCOME – JEFF EASTON, BHP, AND VERONICA KUSSER, WREA</td>
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<tr>
<td>SESSION 2</td>
<td>HOME WEATHERIZATION</td>
<td>ELECTRICAL CODE TRAINING – SESSION 1 (CONTINUED)</td>
<td>UPONOR CLIMATE CONTROL (CONTINUED)</td>
<td>FLIR</td>
</tr>
<tr>
<td>9:30 a.m.</td>
<td>Bill Thompson, Western South Dakota Community Action (Keith)</td>
<td></td>
<td>Jeff Medley, Ferguson (Keith)</td>
<td>Michael McKibben, FLIR Systems (Keith)</td>
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<tr>
<td>To 10:30 a.m.</td>
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<tr>
<td>10:30-10:45</td>
<td>BREAK &amp; EXHIBITOR SHOWCASE</td>
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<tr>
<td>SESSION 3</td>
<td>INTERCONNECTION</td>
<td>PEAK DEMAND MANAGEMENT</td>
<td>MOTORS &amp; DRIVES</td>
<td>ENERGY EFFICIENT LIGHTING</td>
</tr>
<tr>
<td>10:45 a.m.</td>
<td>Don Martinez, Black Hills Power</td>
<td>Bill Brayden, Brayden Automation (Jeff)</td>
<td>Larry Sifers, Siemens (Tom Berry)</td>
<td>Speaker, Sylvania (Don)</td>
</tr>
<tr>
<td>To 11:45 a.m.</td>
<td>Dave Semerad, West River Electric Association (Don)</td>
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<tr>
<td>LUNCH</td>
<td>KEYNOTE SPEAKER</td>
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<tr>
<td>11:45 a.m.</td>
<td>Dwight Leski, District Fleet Manager, General Motors</td>
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<tr>
<td>To 1:00 p.m.</td>
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<td>CONFIRMED</td>
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<tr>
<td>1:00-1:15</td>
<td>BREAK &amp; EXHIBITOR SHOWCASE</td>
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<tr>
<td>SESSION 4</td>
<td>ASHRAE SPEAKER SERIES</td>
<td>RENEWABLES</td>
<td>MOTORS &amp; DRIVES</td>
<td>ENERGY EFFICIENT LIGHTING</td>
</tr>
<tr>
<td>1:15 p.m.</td>
<td>Speaker, Company (Matt Koupal)</td>
<td>Jeremy Anderson, PowerPlus Electric (Don)</td>
<td>Larry Sifers, Siemens (Tom Berry)</td>
<td>Speaker, Sylvania (Don)</td>
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<tr>
<td>To 2:15 p.m.</td>
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<tr>
<td>2:15-2:30</td>
<td>BREAK &amp; EXHIBITOR SHOWCASE</td>
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</tr>
<tr>
<td>SESSION 5</td>
<td>HEAT PUMP 201</td>
<td>ELECTRICAL CODE TRAINING – SESSION 2</td>
<td>HOME ENERGY AUDITS</td>
<td>COMMERCIAL GEOTHERMAL</td>
</tr>
<tr>
<td>2:30 p.m.</td>
<td>Dan DeJong, BHP (Keith)</td>
<td>Jeff Larus, City of Rapid City (Robert)</td>
<td>Bill Meehan, Building Performance Institute (Jeff)</td>
<td>Richard Hiles, ClimateMaster (Jeff)</td>
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<tr>
<td>To 3:30 p.m.</td>
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<tr>
<td>3:30-3:45</td>
<td>BREAK &amp; EXHIBITOR SHOWCASE</td>
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<tr>
<td>SESSION 6</td>
<td>HOME AUTOMATION</td>
<td>ELECTRICAL CODE TRAINING – SESSION 2 (CONTINUED)</td>
<td>HIGH EFFICIENCY &amp; HEAT PUMP WATER HEATERS</td>
<td>SPRAY POLYURETHANE FOAM (SPF) INSULATION SYSTEMS</td>
</tr>
<tr>
<td>3:45 p.m.</td>
<td>Barry Shaw, Soundpro (Jeff)</td>
<td></td>
<td>Steve Koep, Rheem-Marathon (Robert)</td>
<td>Steve Loftis, NCFI Polyurethanes (Jeff)</td>
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<tr>
<td>To 4:45 p.m.</td>
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<tr>
<td>4:45-5:00</td>
<td>EXHIBITOR SHOWCASE</td>
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<tr>
<td>SESSION 7</td>
<td>SOUTH DAKOTA ELECTRICAL COUNCIL MONTHLY ELECTRICAL CODE TRAINING</td>
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<tr>
<td>7:00 p.m.</td>
<td>Larry Sifers, Siemens</td>
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<tr>
<td>To 9:00 p.m.</td>
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</tbody>
</table>

**EXHIBITOR SHOWCASE OPENS AT 8:00 A.M.**
Program:

Current Building Codes Update
Thursday, February 16, 2012 Meeting
SDSM&T Surbeck Center, Hisega Room – Rapid City, SD
12:00 PM - 1:00 PM
BOG Meeting 11:30 AM

Jeffrey Larus is a Building Inspector III for the City of Rapid City and has been with the City for twenty-one years. He currently heads up the mechanical inspection program and performs both electrical and mechanical inspections. His education at Western Dakota Tech includes a diploma in Industrial Electronics and a diploma in Electronics Technology. He is also a member of the Electrical Advisory Board, instructor for the Corporate Education Program teaching electrical classes, and a 2010 Distinguished Alumni at Western Dakota Tech.

Jeff currently holds many certifications and licenses including:
- Rapid City: Masters Electrician License.
- International Association of Electrical Inspectors Certifications: 1 and 2 Family Dwelling Electrical Inspector, General Electrical Inspector, Electrical Plan Review.
- International Association of Plumbing and Mechanical Officials Certifications: Plumbing Inspector, Mechanical Inspector.

In addition to the above certifications, Jeff is the current Vice President of South Dakota Electrical Council, Vice President of the Black Hills Chapter of the South Dakota Electrical Council, and has been a Member of the Pennington County Search and Rescue Team for the past 23 years.

President's Message

As we approach the downhill side of our Society year, we have a few important decisions in front of us. Our terms as officers are two years each and we are approaching the end of those terms. As a leadership opportunity to all, we will need committee chairs and officers nominated soon. Thank you to those who have served as a committee chair or officer or both! Anyone can do any job once nominated and elected. The normal progression is to be a chair for as many committees as you can and migrate into the VP/Secretary position to eventually become President. Since we are a small chapter, have many past presidents and committee chairs, it is very likely we can repeat our committee work and officer duties over time.

Please give it careful consideration to either join or chair a new committee. ASHRAE is largely a volunteer effort and the Society is only as good as the input of the members. If you want to improve our Society, please contact Allen Freeland or myself. We need your leadership!

Mike Mueller
Chapter Programs Schedule

Below is a listing of this year’s programs. Please call or e-mail suggestions for programs as indicated below:

* September 15, 2011  Why Humidify and Humidification technologies  Brent Field
* October 20, 2011  Game Fish and Parks Outdoor Campus West Tour  Michael Heinrich
* November 17, 2011  Better Building Control  John Welch
* December 15, 2011  Green Data Rooms  Nick Gangemi
* January 19, 2012  12th Annual Electro – Technology Expo  Multiple

February 16, 2012  Current Building Codes Update  Jeffrey Larus
April 19, 2012  Flow Control Technology  Joe Schaffer
May 17, 2012  University Center Tour  TBD

July 2012  ASHRAE - API Annual Golf Outing & Fund Raising

* Completed Program

Send program suggestions to:  Sean O’Connor  
(P) 605-348-2033  
(F) 605-348-9215

Upcoming Events

Make plans now to attend the ASHRAE 2012 Annual Conference held in San Antonio, Texas, June 23 - 27, 2012. The conference is expected to attract some 2000 attendees from 60 countries. The technical programs takes place Sunday, June 24 – Wednesday, June 27, and includes paper presentations as well as non-paper presentations.

Obtain more information for the ASHRAE 2012 Annual Conference at www.ashrae.org.

Make plans now to attend the ASHRAE Region 9 CRC located at the Holiday Inn Grand Montana in Billings, Montana.

Obtain more information for the ASHRAE Region 9 CRC by visiting www.bigskyashrae.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 submit an application.
YEA Leadership Weekend is just around the corner...

Register today!

Are you interested in expanding your knowledge, meeting fellow members and having some fun along the way? Look no further than YEA Leadership Weekend!

YEA Leadership Weekend is an opportunity for you—the future leaders of ASHRAE—to learn more about Society, develop soft skills and network with other young professionals. This event will be held the weekend of March 30 – April 1, 2012, in San Diego, CA.

The event includes segments on understanding your own personality as well as other types, leadership development for young professionals, communication techniques and ASHRAE leadership opportunities. Objectives of leadership weekend are:

- Leadership
- Networking
- Communication
- Professional Development

YEA Leadership Weekend is a great opportunity for any YEA member. Registration is now open and will close on Friday, February 24, 2012. Only the first 30 registrants will be accepted, so don’t wait to sign up!

You can learn more about this event at www.ashrae.org/YEALeadershipweekend or email your questions to Rhiannon Loomis at rloomis@ashrae.org.

Spring 2012 YEA Leadership Weekend
March 30 - April 1, 2012
San Diego, CA

Young Engineers in ASHRAE
www.ashrae.org/yea
Phone: (678) 639-1178
Fax: (404) 321-5478

We would love to hear from you!
Email: doomis@ashrae.org
1751 Tulip Circle NE
Atlanta, GA 30329

Engineers Week
February 20 -26
35 Years at the South Dakota School of Mines and Technology

Order of the Engineer Luncheon
Tuesday, February 21nd
11:30am - 1:00pm - Ballroom, Surbeck Center

South Dakota Engineering Society Forum
Wednesday, February 22nd
11:30am - 1:00pm - Ballroom, Surbeck Center

Cardboard Bridge Beam Contest
Wednesday, February 22nd

Engineering and Science Day Department Tours
Thursday, February 23th
9:00 am - 12:00 pm - Campus Wide

Chemistry Show
Thursday, February 23th
9 am, 10 am, 11 am - Ballroom, Surbeck Center

Rube Goldberg Machine Contest
*ASHRAE Providing Judges and Cash Prizes*
Friday, February 24th
3:00 pm - Ballroom, Surbeck Center

Kids’ Block Contest
Saturday, February 25th
10:00am - Ballroom, Surbeck Center

MathCounts
Saturday, February 25th
1:00pm - Classroom Building, Room 204

For more Details Visit
http://academics.sdsmt.edu/e-week/
Program:
ASHRAE Commercial Energy Audits Procedures
Thursday, March 8, 2012 Meeting
SDSM&T Surbeck Center, Ball Room – Rapid City, SD
11:30 AM Lunch – Program to follow
Admission – $20 prior to March 6 and $25 day of event (Cash or Check only)

If you are interested in attending please contact:
Judy Oakley
(P) 605-348-2033
(F) 605-348-9215
1221 Concourse Drive
Rapid City, SD 57703
joakley@oconnorcorc.com

Ross D. Montgomery, P.E. – President of Quality Systems and Technology Inc. in Palmetto, Florida, ASHRAE Vice-President, past DRC and DAL, past RVC, past chapter and section President. He has worked in ASHRAE activities for 29+ years, and has served on over 36 committees, councils and boards for ASHRAE. He has authored several Journal articles on controls and commissioning, and co-authored the ASHRAE book “Fundamentals of HVAC Control Systems”.

Professionally, he works in the Commissioning and Controls, Maintenance / Operations, and Energy Audit / Modeling / Assessment business, operating a company based in Florida. He also works as the certifying engineer for Testing, Adjusting, and Balancing of HVAC&R Systems, and for three other companies as a primary investigator that provides Energy / IAQ monitoring, testing, research, and reporting as well as providing Environmental Solutions for IAQ problems. He graduated from the University of South Florida with a BSME. He has his Professional Engineers License, Mechanical/Electrical Contractors licenses, as well as his Certifications for IAQ, Energy Manager, Commissioning, Energy Modeling and Assessor, and Green Building Engineer. He is a past recipient of the ASHRAE Exceptional Service Award, Distinguished Service Award, the John James International Award, an ASHRAE Technology Award, and the Lincoln Bouillon Membership Award.

ASHRAE Commercial Energy Audits Procedures is a 40-minute PowerPoint presentation that goes step by step in the process of making energy audits, Level I, II, and III, using ASHRAE publications as a guideline, and highlighting the existing ASHRAE Commercial Energy Audits book. This presentation also includes a brief discussion about other related ASHRAE Energy products and services, such as Standards 90,100,189, PMP, EEB, and ASHRAE bEQ Building Labeling program, and how Energy Targets tie in. A short review will be presented at the end of the program of an actual Energy Audit Report and select summary graphics.
Black Hills ASHRAE Student Committee Announcement

As announced in mid February, one of the best reasons for the students to join ASHRAE, is you. You, as in a local chapter and support group for the students to turn to, network with, and potentially seek employment with. Kevin gave me a great idea that I will be running with regarding this. Beyond inviting students to our meetings and functions, I will be asking the student members looking for local employment and internships to email me copy of their resumes that I can distribute to you upon your request. With that said I currently have one resume from a BSME student graduating in May, and the hope that I may receive a couple more after emailing and talking to the students as well.

Mike Malone

If your company is interested in obtaining student resumes, please contact:

  Mike Malone  
  (P) 605-341-6939  
  (F) 605-341-6883  
  mmalone@maloneengineering.com

Upcoming Events

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President's Message

Our Student Activities Committee has just gained a very important new leader in the Mechanical Engineering Department at the South Dakota School of Mines and Technology. We would like to thank Dr. Benjamin Simmons, new faculty member, for accepting the vital role of faculty advisor for our ASHRAE Student Branch. We recently met with our Region IX leadership in Student Activities, Kevin Ainsworth, RVC, and have set achievable goals to assist Dr. Simmons in this effort. We will be calling in those pledges from individuals and companies that have committed to help pay the annual $20 student dues. Please stay tuned for Student Activities news.

Our March program will spotlight even more leadership within Society as we will be visited by Vice President (one of four) Ross Montgomery. You will find Ross very engaging and he will give us an update on Society and feature his power point on Energy Audits. His recent appointment as a Distinguished Lecturer in ASHRAE is also very good timing. When I met Ross at the 2010 CRC he expressed an interest in coming to South Dakota because he liked cold. Hopefully we can have a short spell of cold for this gentleman from Florida. He will be presenting to the South Dakota Chapter the day before he presents to our chapter, so he will have two chances for cold.

Mike Mueller
## Chapter Programs Schedule

Below is a listing of this year’s programs. Please call or e-mail suggestions for programs as indicated below:

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<td>February 16, 2012</td>
<td>Current Building Codes Update</td>
<td>Jeffrey Larus</td>
</tr>
<tr>
<td>April 19, 2012</td>
<td>Dedicated Outdoor Air Systems - DOAS Webcast</td>
<td>Multiple - see attached flyer</td>
</tr>
<tr>
<td>May 17, 2012</td>
<td>Flow Control Technology</td>
<td>Ken Luther</td>
</tr>
<tr>
<td>July 2012</td>
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* Completed Program

Send program suggestions to:  
Sean O’Connor  
(P) 605-348-2033  
(F) 605-348-9215  
programs@blackhillsashrae.org

## Membership

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April 19, 2012    1:00 PM-4:00 PM EDT

Dedicated Outdoor Air Systems: A Path to Balancing Energy and IEQ

Hear leading experts discuss the role of Dedicated Outdoor Air Systems in the overall HVAC system and describe various DOAS equipment configurations, characteristics, and applications. This webcast will identify common design and operational pitfalls, and cover challenges unique to DOAS.

Presenters

John Murphy, LEED AP
Applications Engineer | Trane | La Crosse, WI

Stan Mumma, Ph.D., P.E.
Professor Emeritus | Pennsylvania State University | University Park, PA

Tim McGinn, P.E., LEED AP
Principal | DIALOG | Calgary, AB, Canada

How to Participate
• You may register to view the Webcast on your PC
• You may host a webcast viewing site for your colleagues
• View the webcast at a site

PDH Credits
Three (3) Professional Development Hours (PHDs) or three (3) AIA Learning Units may be awarded to viewers who complete the “Participant Reaction Form” by May 3, 2012.

For more information about the program, presenters, continuing education credits, sponsorships, and DOAS resources please visit us at www.ashrae.org/doaswebcast
Program:

ASHRAE Webcast – Dedicated Outdoor Air Systems: A Path to Balancing Energy and IEQ
Thursday, April 19, 2012 Meeting

The following businesses within Rapid City will host the event:

O’Connor Company – 1221 Concourse Drive – 605.348.2033
Malone Engineering, Inc. – 230 Main Street – 605.341.6939
Skyline Engineering, LLC – 615 12th Street – 605.737.3800

Lunch will be on your own unless otherwise arranged.
Make arrangements with the business you would like to attend.

11:00 AM – 2:00 PM MDT

Hear leading experts discuss the role of Dedicated Outdoor Air Systems (DOAS) in the overall HVAC system and describe various DOAS equipment configurations, characteristics, and applications. This webcast will identify common design and operational pitfalls, and cover challenges unique to DOAS.

President's Message

Society President, Ron Jarnagin, will be one of the four presenters this month for the webcast. Getting a chance to meet and visit with Ron at last year’s CRC in El Paso allowed me to soak up his leadership message. His year was to be spent improving the associations that ASHRAE had in the engineering and construction industries here and abroad. When he presented to us at a Technical Session he finished by requesting that each of us write down one way that we will provide leadership for ASHRAE and give him that note. He was looking for commitment from us by putting our promise in writing.

If you have not served on a committee, served as a committee chair, or as an officer of the chapter, I am asking for your commitment now to become an active ASHRAE member. This is a two year commitment and more than half of our members have served in multiple capacities. We have many experienced people (including past presidents) within our chapter for training and assistance. Please contact Allen Freeland or myself as soon as you can for taking this leap into leadership. The time commitment is only a couple of hours a month.

Thanks, Mike Mueller

Upcoming Events

Make plans now to attend the ASHRAE 2012 Annual Conference held in San Antonio, Texas, June 23 - 27, 2012.

The conference is expected to attract some 2000 attendees from 60 countries. The technical programs takes place Sunday, June 24 – Wednesday, June 27, and includes paper presentations as well as non-paper presentations.

Obtain more information for the ASHRAE 2012 Annual Conference at www.ashrae.org.

Make plans now to attend the ASHRAE Region 9 CRC located at the Holiday Inn Grand Montana in Billings, Montana.

Obtain more information for the ASHRAE Region 9 CRC by visiting www.bighiskyashrae.org.
Black Hills ASHRAE Student Committee Announcement

As announced in mid February, one of the best reasons for the students to join ASHRAE, is you. You, as in a local chapter and support group for the students to turn to, network with, and potentially seek employment with. Kevin gave me a great idea that I will be running with regarding this. Beyond inviting students to our meetings and functions, I will be asking the student members looking for local employment and internships to email me copy of their resumes that I can distribute to you upon your request. With that said I currently have one resume from a BSME student graduating in May, and the hope that I may receive a couple more after emailing and talking to the students as well.

Mike Malone

If your company is interested in obtaining student resumes, please contact:

   Mike Malone
   (P) 605-341-6939
   (F) 605-341-6883
   mmalone@maloneengineering.com

Chapter Programs Schedule

Below is a listing of this year’s programs. Please call or e-mail suggestions for programs as indicated below:

* September 15, 2011   Why Humidify and Humidification technologies   Brent Field
* October 20, 2011   Game Fish and Parks Outdoor Campus West Tour   Michael Heinrich
* November 17, 2011   Better Building Control   John Welch
* December 15, 2011   Green Data Rooms   Nick Gangemi
* January 19, 2012   12th Annual Electro – Technology Expo   Multiple
* February 16, 2012   Current Building Codes Update   Jeffrey Larus

April 19, 2012   Dedicated Outdoor Air Systems - DOAS Webcast   Multiple - see attached flyer
May 17, 2012   Flow Control Technology   Ken Luther
July 2012   ASHRAE - API Annual Golf Outing & Fund Raising

* Completed Program

Send program suggestions to: Sean O’Connor
(P) 605-348-2033
(F) 605-348-9215
programs@blackhillsashrae.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 submit an application.
April 19, 2012  1:00 PM-4:00 PM EDT

Dedicated Outdoor Air Systems: A Path to Balancing Energy and IEQ

Hear leading experts discuss the role of Dedicated Outdoor Air Systems in the overall HVAC system and describe various DOAS equipment configurations, characteristics, and applications. This webcast will identify common design and operational pitfalls, and cover challenges unique to DOAS.

Presenters

Ron Jarnagin, 2011–12 ASHRAE President
Staff Scientist | Pacific Northwest National Laboratory | Richland, WA

Tim McGinn, P.E., LEED AP
Principal | DIALOG | Calgary, AB, Canada

Stan Mumma, Ph.D., P.E.
Professor Emeritus | Pennsylvania State University | University Park, PA

John Murphy, LEED AP
Applications Engineer | Trane | La Crosse, WI

How to Participate
• You may register to view the Webcast on your PC
• You may host a webcast viewing site for your colleagues
• View the webcast at a site

PDH Credits
Three (3) Professional Development Hours (PHDs) or three (3) AIA Learning Units may be awarded to viewers who complete the “Participant Reaction Form” by May 3, 2012.

For more information about the program, presenters, continuing education credits, sponsorshipships, and DOAS resources please visit us at www.ashrae.org/doaswebcast
IT’S ALL ABOUT GOLF!

July 26, 2012

Elks Golf Course
Rapid City, South Dakota
Tee-Off - 7:00 a.m. to 12:00 p.m.

$70 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: $20 (wife, friends welcome)

STARS GET SOME GREEN $$ CLOSEST TO THE PIN ON #9 CONTEST
$100.00 prize with proceeds of your $5.00 Donation to Support SDSM&T Summer Youth Programs
Send confirmation, checks, foursome and requested starting time(s) to:

Tim Elliot               Mike Erhart
telliot@oconnorcorc.com  mike.erhart@apidistribution.us
1221 Concourse Drive     5008 API Road
Rapid City, SD 57703     Black hawk, SD 57718
(605) 348-8298           (605) 787-6781
(605) 348-9215 (Fax)     (605) 787-4017 (Fax)

PRIZES & DONATIONS NEEDED

Proud Hole Sponsors ($50.00)

Thank you to all the previous sponsors – We again met our scholarship goal!
Make checks payable to ASHRAE.
Program:
Ocean Waves as a Sustainable Energy Source for Coastal Installation and Communities
Thursday, May 17, 2012 Meeting
SDSM&T Surbeck Center, Hisega Room – Rapid City, SD
12:00 PM - 1:00 PM

Dr. Umesh A Korde
Professor at the South Dakota School of Mines and Technology since 2003
Pearson Endowed Professorship in Sustainable Energy/Professor
Mechanical Engineering Department (ME)
B.Tech., Indian Institute of Technology
M.Eng., University of Tokyo
Ph.D., University of Notre Dame

Wave motion on the ocean surface concentrates and stores the energy in local and distant winds, which in turn owe their existence to the solar radiation reaching the earth. Systematic efforts to utilize waves to generate electric power or to perform other useful tasks began during the oil crisis of the 1970’s, and have since continued worldwide on different levels. This presentation will discuss some of Umesh Korde’s recent work on wave energy conversion. He has a global reputation for his research emphasizing the control and dynamics of wave energy converters oscillating in response to wave motion. He has authored numerous papers in this area, and has served as an associate editor of the journal Ocean Engineering since 2007. Dr. Korde joined the Mechanical Engineering Department at SDSM&T in 2003 and was appointed as the inaugural Pearson Professor (now the Pearson Chair) in Mechanical Engineering in July 2010. His current research projects include control of wave energy converters and deformable optics for space applications and concentrators for solar energy conversion. He currently teaches undergraduate courses in mechanical vibrations and sustainable energy systems.

President's Message

As we draw near the end of another ASHRAE year, I would like to thank all of you to allow me to serve as your president. A special thanks go out to the active volunteer members, committee chairs, and officers who have shown leadership during this time. Your ideas and especially your efforts are appreciated. As a small chapter we don’t have the luxury of full committees or lots of members to draw from for special projects. We do hold our own within the Region for accomplishments and we can be proud of that.

Our May meeting will complete our year with the election of our chapter’s next two years of leadership. The nominations for all positions are in this newsletter and we can also take nominations on the floor that day before we vote. Your presence at this meeting gives you a voice of our next two years’ structure as a chapter. See you there!

Mike Mueller
Black Hills ASHRAE Chapter Chair Nomination List

President – S. Allen Freeland, PE
Vice President/Secretary – David Dowling
Treasurer – Judy Oakley
Membership – Jeremy Clocksin, EIT
Research Promotion – Ethan Grover, EIT
Technology Transfer – Chad Miller
Student Activities – Mike Malone, PE
Historian – Michael Heinrich, PE
Newsletter Editor – Matt Koupal
Web Master – Michael Heinrich, PE

Upcoming Events
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May 17, 2012  Ocean Waves as a Sustainable Energy Source for Coastal Installation and Communities  Dr. Korde

July 2012  ASHRAE - API Annual Golf Outing & Fund Raising

* Completed Program

Send program suggestions to: Sean O’Connor
(P) 605-348-2033
(F) 605-348-9215
programs@blackhillsashrae.org

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ASHRAE – API

21TH ANNUAL GOLF OUTING & FUND RAISING

IT’S ALL ABOUT GOLF!

July 26, 2012

Elks Golf Course
Rapid City, South Dakota
Tee-Off - 7:00 a.m. to 12:00 p.m.

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Rapid City, SD 57703  Black hawk, SD 57718
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(605) 348-9215 (Fax)  (605) 787-4017 (Fax)

PRIZES & DONATIONS NEEDED

Proud Hole Sponsors ($50.00)

Thank you to all the previous sponsors – We again met our scholarship goal!
Make checks payable to ASHRAE.
Program:

Overview of Co-Generation Video Presentation
Thursday, September 20, 2012 Meeting
SDSM&T Surbeck Center – Rapid City, SD
12:00 PM - 1:00 PM

Video will provide a detailed overview of the different types and applications for Co-Generation systems.

President's Message

Fellow ASHRAE Members,

I hope that this message finds you all in good health and spirits. Fall is on its way and with it brings a new year of Black Hills Chapter ASHRAE activities and involvement. I would first like to thank our past President, Board of Governors, Committee Chairs and General Members for all their hard work and participation over the last year, THANK YOU! NEWS FLASH!, Mike Mueller (our past president) received the prestigious “Best President Award” for our chapter in Region IX at this year’s Chapter Regional Conference (CRC) held in Billings, MT!! GREAT JOB Mr. Mueller, you certainly deserved it. Everyone should pat Mike on the back and give congrats the next time you see him.

This year’s Society President, Thomas E. Watson, PE has an interesting theme, “Broadening ASHRAE’s Horizons”. This theme emphasizes the role of ASHRAE members as leaders in the application of sustainable design and practices in our community word wide. ASHRAE is reaching out and becoming a grassroots movement all around the world and I completely support that and encourage that you all do as well. In the next year I hope to promote that theme locally by having collaborative meetings with other professional organizations such as AIA, AGC, USGBC, etc. In addition, I hope to hold social gatherings periodically with these groups for us all to have a chance to network and meet other facets of our industry as they are all intertwined.

I would like also to share some exciting news about our new involvement with the local student chapter. This year, with the consent of the BOG, we have purchased and donated the required text books for an HVAC class at SDSM&T. In return, we required that all the students become Members of our organization (membership dues paid for by local businesses) and the professor, Dr. Krause, has required that they attend a minimum of two chapter meetings! That is a FANTASTIC start to our student chapter for the year. The upcoming generation is the future of ASHRAE and we will support that every way that we can. Student Activities Chair, Mike Malone, and I will also be speaking to the entire freshman class on Sept. 11 to promote our chapter as well. We are offering free membership dues this year and hope to build a strong base for the student chapter.

In closing, I am very excited and motivated to serve as your President and hope that we can grow and expand our chapter to a new level over the next two years. Talk to you soon.

S. Allen Freeland, PE
Mike Mueller Honored

Please join in congratulating Mike Mueller for receiving the honorable award of Best Chapter President in ASHRAE Region IX for 2011 – 2012. The award was bestowed by Richard Bowman, Region IX Director and Regional Chair at the Chapters Regional Conference in Billings, MT. Mueller served as the President of the Black Hills Area Chapter of ASHRAE from 2010 – 2012. He is currently the Rapid City Operations Manager for G & R Controls.

Congratulations Mike and thank you for your fantastic contributions to our chapter!

Upcoming Events

Make plans now to attend the Energy Modeling Conference held in Atlanta, Georgia, October 1 - 3, 2012.
Make plans now to attend the ASHRAE/NIST Refrigerants Conference in Gaithersburg, Maryland, October 29 - 30, 2012.
Make plans now to attend the 7th International Cold Climate HVAC Conference in Calgary, Alberta, Nov. 12 - 14, 2012.
Obtain more information for the Cold Climate HVAC Conference by visiting www.ashrae.org/coldclimate.
Make plans now to attend the AHR Expo in Dallas, Texas, January 28 - 30, 2013.
Obtain more information about the AHR Expo by visiting www.ahrexpo.com.
Black Hills ASHRAE Donates Textbooks
As a demonstration of its continued support of local engineering students, Black Hills ASHRAE has donated textbooks to the fall semester HVAC&R class at the South Dakota School of Mines and Technology. The course, taught by Dr. Wayne Krause, serves as an introduction to the core ideas that drive the HVAC industry. The textbooks are based on the ASHRAE Fundamentals Handbook, and this donation will help students become acquainted with the ASHRAE society and our local chapter.

For more information about this donation and upcoming student activities, please contact:
Mike Malone
(P) 605-341-6939
(F) 605-341-6883
mmalone@maloneengineering.com

Did You Know…
…that the Black Hills Area Chapter of ASHRAE received its charter on September 22, 1976? Happy Anniversary!

Chapter Programs Schedule
Below is a listing of this year’s programs. Please call or e-mail suggestions for programs as indicated below:

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Send program suggestions to: Chad Miller
(P) 605-342-2407
(F) 605-342-2408
programs@blackhillsashrae.org

Membership
If anyone knows of someone who might be interested in becoming a member of ASHRAE, contact Jeremy Clocksin at 342-2407 or email him at membershippromotion@blackhillsashrae.org or submit an application.
# Local Chapter Dues

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Please Mail My ASHRAE Correspondence to:  [ ] Home Address  [ ] Business Address

Please Email My ASHRAE Correspondence  Please Fax My ASHRAE Correspondence  [ ]

Enclosed is  $30.00  $35.00  [ ] Cash  [ ] Check

Note: Local dues are due by December 31, 2012. If dues are paid after this date, please include an additional $5.00 for ASHRAE Research. Your immediate response to this notice is appreciated. If you paid your local dues with your national, please complete and return this form so we may update our files. Thank you.

Mail Dues to:
O’Connor Company
Attn: Judy Oakley
1221 Concourse Drive
Rapid City, SD 57703
Fax: 605-348-9215
Program:

Advantages of Evaporative Cooling
Thursday, October 25, 2012 Meeting
SDSM&T Surbeck Center, Hisega Room – Rapid City, SD
12:00 PM - 1:00 PM

Speaker: Pat Douglas, Regional Sales Manager, Energy Labs

Pat has over 20 years of experience in the HVAC market, having worked for York International as a salesman, project manager and branch manager. He was also a regional manager for Rittling. Pat has served in his current role of Energy Labs regional sales manager for the past two years – responsible for the sales and product training throughout the region.

President's Message

As with last month, I hope this message finds all of you in good health and spirits. We are off the ground and charging into our new year of ASHRAE involvement. I would like to first thank all of you that attended our first meeting of the year which featured an overview of cogeneration, we had thirteen members and two students! We as an organization are nothing without the participation and involvement of our members, again thank you. I encourage and challenge ALL of our local members to get more involved and come to our meetings and volunteer to assist our committee chairs. As always, more hands means less work for any one person.

It is very exciting to share the fact that we now have 29 student members officially signed up as members of our nearly official student chapter at SDSM&T. I want to thank Mr. Mike Malone (our Student Activities Chair) and Mr. Ben Simmons (our student chapter advisor) for their commitment and diligence in making our student chapter a reality. I believe that all that is left for us to have an official chapter is some minor paperwork……GREAT JOB guys!

I would also like to quickly mention the upcoming 2015 CRC (Chapter Regional Conference) that will be hosted by the Black Hills Chapter. We have a committee started and have a need for more of our members to assist on this committee. To hold a CRC is a monumental task and takes an enormous amount of organizing and time. I know that 2015 seems like a long ways away, but it will be here before we know it. I am asking that you consider assisting and getting involved with the CRC Committee, we need your help. Currently, we have done some preliminary meetings and have some initial pricing for the hotel/conference room facilities (thanks Mike Mueller and Judy Oakley). We currently meet every other week for one hour……more hands means less work.

This month’s program “Advantages of Evaporative Cooling” will be very interesting and informative as its application is conducive to our arid climate. Hope to see you all there……talk to you soon.

S.Allen Freeland, PE

Make plans now to attend the 7th International Cold Climate HVAC Conference in Calgary, Alberta, Nov. 12 - 14, 2012. Obtain more information for the Cold Climate HVAC Conference by visiting www.ashrae.org/coldclimate.

Did You Know…
…that the Black Hills Area Chapter of ASHRAE hosted its first CRC from May 14 – May 17, 1980?

Chapter officers are already hard at work preparing for our next run at hosting the CRC in 2015!

### Chapter Programs Schedule

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<td>Design &amp; Economics of Ground Loop Systems</td>
<td>Alan Niles</td>
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<td>Western Dakota Technical Institute Plant Tour</td>
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<td>January 17, 2013</td>
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<td>Multiple</td>
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<td>February 21, 2013</td>
<td>Valentines Spouse Social</td>
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<tr>
<td>March 21, 2013</td>
<td>Utilizing Chiller Heat Recovery</td>
<td>Anthony Stringer</td>
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<td>April 18, 2013</td>
<td>ASHRAE Webinar</td>
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ASHRAE Learning Institute

Seminars & Courses at ASHRAE’s Winter Conference and AHR Expo in Dallas, TX

2 WAYS TO REGISTER
Internet:  www.ashrae.org/dallascourses
Phone:  Call 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

Full-Day Professional Development Seminars
$485/$395 ASHRAE Member -- Earn 6 PDHs/AIA LUs or .6 CEUs

The Commissioning Process in New & Existing Buildings
Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

Complying with Standard 90.1-2010
Tuesday, Jan 29 – 9:00 a.m. to 4:00 p.m.

Data Center Energy Efficiency
Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

Energy Modeling Best Practices and Applications:
HVAC/Thermal
Tuesday, Jan 29 – 9:00 a.m. to 4:00 p.m.

Healthcare Facilities: Best Practice Design & Applications
Saturday, Jan 26– 8:00 a.m. to 3:00 p.m.

Half-Day Short Courses
$159/$119 ASHRAE Member -- Earn 3 PDHs/AIA LUs or .3 CEUs

Air-to-Air Energy Recovery Fundamentals
Sunday, Jan 27 – 2:00 p.m. to 5:00 p.m.

Commissioning Process & Guideline 0
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Humidity Control: Applications, Control Levels and Mold Avoidance
Sunday, Jan 27 – 2:00 p.m. to 5:00 p.m.

Evaluating the Performance of LEED®-Certified Buildings
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Air-to-Air Energy Recovery Applications: Best Practices
Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

Optimization of HVAC Systems & Components: Techniques & Real-World Examples
Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

Application of Standard 62.1-2010: Multiple Spaces Equations & Spreadsheet
Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

Energy Management in New and Existing Buildings
Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

Combined Heat & Power: Design through Operations
Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

Avoiding IAQ Problems
Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

Understanding Standard 189.1-2011 for High-Performance Green Buildings
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Designing Toward Net Zero Energy Commercial Buildings
Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.

Introduction to Ultraviolet Germicidal Irradiation (UVGI) Systems
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Understanding & Designing Dedicated Outdoor Air Systems
Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.

Laboratory Design: The Basics and Beyond
Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.
CHMAY NOT ACT FOR THE SOCIETY
American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

CHAPTER MAY NOT ACT FOR THE SOCIETY
American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

HVAC Design Training
Jan 14-18, 2013 • Jan 30-Feb 1, 2013 (Level I only) • Mar 18-22, 2013 • Jun 3-7, 2013 • Aug 12-16, 2013

HVAC Design: Level I - Essentials
Gain practical skills and knowledge in designing, installing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

HVAC Design: Level II - Applications
Developed by industry-leading professionals, the workshop provides participants with advanced level information about designing, installing and maintaining HVAC systems that can be put to immediate use. Participants will gain an in-depth look into Standards 55, 62.1, 90.1, and 189.1 and the Advanced Energy Design Guides, as well as a range of other HVAC topics including: HVAC equipment and systems; energy modeling; designing mechanical spaces; designing a chiller plant; and BAS controls.

Visit www.ashrae.org/hvacdesign to register

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Mail Dues to:
O’Connor Company
Attn: Judy Oakley
1221 Concourse Drive
Rapid City, SD  57703
Fax: 605-348-9215
Program:

Design & Economics of Commercial Ground Loop Heat Pump Systems

Thursday, November 15, 2012 Meeting
SDSM&T Surbeck Center, Hisega Room – Rapid City, SD
12:00 PM - 1:00 PM

Speaker: Alan Niles, Western Region Commercial Sales Manager, Water Furnace International

This discussion concentrates on the economic impact of project specific variables as well as decisions made (or sometimes, not made) by the design engineer and how defining these details can greatly reduce the first cost of a Ground Loop Heat Pump (GLHP) system. This presentation begins with a quick overview of the components of the GLHP System, and the basic design and installation of the ground loop. Commercial Ground Loop Design Software is reviewed and then utilized to illustrate the economic impact of project specific variables. This discussion concludes with hybrid system design and the opportunities that hybrid systems offer in additional first cost reductions with minimum impact to the operating cost of the GLHP system.

President's Message

Hope this message once again finds you all in good health and spirits during a month when we remember to be thankful. Speaking of thankful, I was super stoked to see all the people at our meeting last month!!!! THANK YOU GUYS! Let’s keep up the momentum. Special thanks goes out to our Student Member attendance as well. We have a distinguished lecturer this month, so make sure and put it on your calendar and remember to pester one other person to come with you as the meeting will be a good one.

I still haven’t heard from anyone in our chapter to volunteer for the 2015 CRC Planning Committee, so I am reaching out again this month for some volunteers, just let me know. Mr. Mike Mueller and I will be walking thru the venue this month and confirming adequate meeting space and some general details. We will give an update at the member meeting.

In addition, anyone that would/wants to donate $$$$ for the student memberships please contact Judy Oakley.

I leave you with………………HAPPY THANKSGIVING !!!!!!! See you all at the member meeting.

S. Allen Freeland, PE
Join ASHRAE at its 2013 Winter Conference and the AHR Expo®!
Jan. 26–30/Jan. 28–30, Dallas

Technical Program—join your fellow members and industry leaders to discuss and examine the latest topics in the building industry, such as high performing buildings and integrated design.

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You’re invited to the World’s Largest HVAC&R Marketplace.

AHR EXPO
International Air Conditioning, Heating, Refrigeration Expo
January 28–30, 2013
Dallas Convention Center
Dallas, Texas

Where sustainability starts...

compliments of:

Black Hills Ashrae
#127

Bring this Card to the Show for FREE Exhibit Hall Registration
or register free online in advance at www.ahrexpo.com!

Upcoming Events

Make plans now to attend the 2013 Winter Conference and AHR Expo in Dallas, Texas, January 26 - 30, 2013.

Obtain more information about the conference by visiting http://www.ashrae.org/membership--conferences/conferences/dallas-conference

Obtain more information about the AHR Expo by visiting www.ahrexpo.com.
Did You Know…
…that the September 25th, 1980 meeting of the Black Hills Chapter of ASHRAE featured Ken Thyron of Big D Oil as a speaker? The topic was “Alcohol Fuels Production.”

Chapter Programs Schedule

Below is a listing of this year’s programs. Please call or e-mail suggestions for programs as indicated below:

- **September 20, 2012**  Overview of Co-Generation*  Video Presentation
- **October 25, 2012**  Advantages of Evaporative Cooling*  Pat Douglas
- **November 15, 2012**  Design & Economics of Ground Loop Systems  Alan Niles
- **December 20, 2012**  Western Dakota Technical Institute Plant Tour  Allen Freeland
- **January 17, 2013**  13th Annual Electro – Technology Expo  Multiple
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- **April 18, 2013**  ASHRAE Webinar
- **May 16, 2013**  Noise & Sound Control  TBD
- **July 2013**  ASHRAE - API Annual Golf Outing & Fund Raising

* Completed Program

Send program suggestions to:  Chad Miller  
(P) 605-342-2407  
(F) 605-342-2408  
programs@blackhillsashrae.org

Membership

If anyone knows of someone who might be interested in becoming a member of ASHRAE, contact Jeremy Clocksin at 342-2407 or email him at membershippromotion@blackhillsashrae.org or submit an application.
# ASHRAE Learning Institute

Seminars & Courses at ASHRAE’s Winter Conference and AHR Expo in Dallas, TX

## 2 WAYS TO REGISTER

| Internet: | [www.ashrae.org/dallascourses](http://www.ashrae.org/dallascourses) |
| Phone: | Call 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide) |

## Full-Day Professional Development Seminars

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**$485/$395 ASHRAE Member -- Earn 6 PDHs/AIA LUs or .6 CEUs**

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American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.  
AN INTERNATIONAL ORGANIZATION
CHAPTER MAY NOT ACT FOR THE SOCIETY
American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

HVAC Design Training
Jan 14-18, 2013 • Jan 30-Feb 1, 2013 (Level I only) • Mar 18-22, 2013 • Jun 3-7, 2013 • Aug 12-16, 2013

HVAC Design: Level I - Essentials
Gain practical skills and knowledge in designing, installing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

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Visit [www.ashrae.org/hvacdesign](http://www.ashrae.org/hvacdesign) to register

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| Address: | |
| City: | State: | Zip: |

E-mail Address: _____________________________

Please Mail My ASHRAE Correspondence to: [ ] Home Address  [ ] Business Address

Please Email My ASHRAE Correspondence  [ ] Please Fax My ASHRAE Correspondence

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Mail Dues to:
O’Connor Company
Attn: Judy Oakley
1221 Concourse Drive
Rapid City, SD  57703
Fax: 605-348-9215
Program:

Standard 189.1 for the Design of High Performance Buildings
Video Presentation

Thursday, December 20, 2012 Meeting
SDSM&T Surbeck Center, Hisega Room – Rapid City, SD
12:00 PM - 1:00 PM

Speaker: Kent Peterson, PE, LEED AP, ASHRAE Presidential Fellow
P2S Engineering, Inc.

Kent Peterson is Vice President and Chief Engineer at P2S Engineering with over 25 years of experience working in consulting engineering. His award-winning design experience includes ultra-energy-efficient central plants, high-performance green buildings, and innovative energy-efficiency strategies. He constantly strives to improve best practices in the building industry.

Mr. Peterson is a Past Society President of the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE). He is chair of the ASHRAE Associate Society Alliance working with 49 professional societies around the world. He also chairs the California State University Mechanical Review Board assisting with improving mechanical systems on the CSU campuses.

Mr. Peterson serves as Chair of ASHRAE/USGBC/IES Standard 189.1 – Standard for the Design of High-Performance Green Buildings. Mr. Peterson has authored a number of articles and papers and has made presentations to governments and professionals throughout the world on improving building sustainability and energy efficiency.

This video presentation is one-hour in length, so please arrive at the meeting 15 minutes early if possible.

President's Message

Hope that this message finds all of you full of Christmas Cheer! As the year 2012 draws to a close I would like to send out a sincere “thank you” to all of the chapter chairman/(woman 😊) that have helped this year be a successful one for our chapter. In addition, I look forward to a fresh start in 2013. It is always good to remember what you have accomplished over the last year, but also very important to set goals for the year to come. I once again reach out to all of you and encourage that you help in keeping our chapter healthy and prosperous over the next year……..get involved and get others involved, that’s what makes us strong. In closing, I wish ALL of you good blessings, a very MERRY CHRISTMAS and a HAPPY NEW YEAR! Hope to see you all at the meeting next week.

S.Allen Freeland, PE
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www.ashrae.org/dallas

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# Did You Know…

…that a resolution officially recognizing the ASHRAE student branch as an organization at SDSM&T was recently passed by the Student Association Senate? Great Job to our Student Branch officers on receiving this formal recognition!

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## Chapter Programs Schedule

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(P) 605-342-2407  
(F) 605-342-2408  
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## ASHRAE Learning Institute

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