

*President*

Allen Freeland

*Vice President and  
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*Treasurer*

Judy Oakley

*Membership*

Jeremy Clocksin

*Research Promotion*

Ethan Grover

*Technology Transfer*

Lance Rikala

*Student Activities*

Mike Malone

*Historian/Webmaster*

Michael Heinrich

*Newsletter Editor*

Matt Koupal

## **Program:**

### **Zero Emission Electrical Power at Enhanced Oil Recovery Sites**

**Thursday, October 17, 2013 Meeting**

SDSM&T Surbeck Center

Hisega Room

Rapid City, SD

12:00 PM - 1:00 PM

**Kenneth Carpenter**

**Managing Partner**

**Heat Mining Company LLC**

Heat Mining Company's proprietary technology known as Carbon Dioxide Plume Geothermal (CPG), stands at the convergence of the practical need to burn fossil fuels to generate the vast majority of the world's energy needs and the growing concern over the emission of carbon dioxide as the primary driver of global warming. Carbon Capture, Utilization and Storage (CCUS) is currently being employed as a means of reducing CO2 emissions in an attempt to address global warming.

Kenneth founded Heat Mining Company in January of 2011, and has served as a managing partner since that time. Prior to his work with HMC, Kenneth served as Founder, Chairman and CEO of MediVas LLC, a biomedical company in San Diego which developed medical devices and drug delivery technology.

## **President's Message**

Hope this message finds all of you healthy and safe in the aftermath of winter storm "Atlas". It was great to see all of you that attended our first meeting, I thank all of you for showing support for our chapter and let's keep the momentum going for our next meeting. Our DRC (Director Regional Chair), Richard Bowman, will be attending our upcoming meeting so I ask that all of you put the date on your calendar and plan on being there to support our chapter. This month's meeting on Geothermal Technologies will be very informative.

Again, I am reaching out to the chapter for volunteers to get involved with the 2015 CRC planning committee as time is burning up quickly. Please contact myself, Judy Oakley or Mike Mueller if you have any questions or are willing to volunteer and help out.

S.Allen Freeland, PE

**CHAPTER MAY NOT ACT FOR THE SOCIETY**

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

## Michael Heinrich Receives Chapter Service Award

Past Chapter President, Michael Heinrich has recently received a Chapter Service Award at the 2013 Chapters' Regional Conference in Boise, Idaho. Michael's past service included duties as Chair of RP, CTTC, and History committees; Webmaster, Newsletter Editor, meeting presenter, VP/Secretary, President, and CRC committee member. He more than doubled the required point total to achieve this award. The following is the basic criteria for award: "The purpose of this award is to recognize the activities and contributions of members of ASHRAE at the chapter level." Obviously he is a deserving recipient. He continues to be active and we appreciate his service. Congratulations, Michael!



### Chapter Service Award

presented to

**Michael S. Heinrich**

For dedicated chapter leadership, personal commitment and outstanding service to the Black Hills Chapter. Your unselfish contributions and dedication to your chapter has helped to provide the benefits of ASHRAE to your peers.

August 2013

A handwritten signature in black ink, appearing to read "Michael Heinrich". Below the signature is a horizontal line, and underneath that line, the text "Chapter President" is printed in a small, black, sans-serif font.A handwritten signature in black ink, appearing to read "Robert Swan". Below the signature is a horizontal line, and underneath that line, the text "Director and Regional Chair" is printed in a small, black, sans-serif font.



## ASHRAE IAQ 2013

### Environmental Health in Low Energy Buildings

October 15–18, 2013

[www.ashrae.org/iaq2013](http://www.ashrae.org/iaq2013)



Renaissance Vancouver Hotel Harbourside | Vancouver, British Columbia, Canada

Join  
ASHRAE  
at its

## 2014 Winter Conference and AHR Expo in New York!

Conference Jan. 18–22 | AHR Expo Jan. 21–23

[www.ashrae.org/newyork](http://www.ashrae.org/newyork)



Special first timer registration fee available!

**Technical Program**—features a building-oriented theme, featuring tracks on building information systems; environmental health; international design; and, featured for this Conference, tall building performance.

**AHR Expo**—The ASHRAE co-sponsored AHR Expo takes place Jan. 21–23  
(NOTE DAY CHANGE: Tuesday, Wednesday, Thursday) at Javits Convention Center.  
[www.ahrexpo.com](http://www.ahrexpo.com)



**ASHRAE Certification**—all six certification programs are being offered: Building Energy Assessment Professional; Building Energy Modeling Professional; Commissioning Process Management Professional; High-Performance Building Design Professional; Healthcare Facility Design Professional; and Operations & Performance Management Professional.

**ASHRAE Learning Institute**—23 Professional Development Seminars and Short Courses are offered, including 11 new courses that include Standards 55 and 90.1, electric rates and regulations, health care facilities, building energy audits and ground source heat pumps.



## Upcoming Events

Make plans now to attend the 2013 ASHRAE IAQ Conference in Vancouver, British Columbia, October 15 - 18, 2013.

Obtain more information about the conference by visiting: <http://www.ashrae.org/iaq2013>

Make plans now to attend the 2014 Winter Conference and AHR Expo in New York, January 18 - 22, 2014.

Obtain more information about the conference by visiting: <http://www.ashrae.org/newyork>

Make plans now to attend the High Performance Buildings Conference in San Francisco, California, April 7 - 8, 2014.

Obtain more information about the conference by visiting: <http://www.hpbmagazine.org/hpb2014>



## Don't Forget...

Volunteers are still needed for the 2015 CRC Planning Committee. Please contact Allen Freeland, Judy Oakley, or Mike Mueller if you are willing to help out.

## Chapter Programs Schedule

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

September 25, 2013	Principles of Evacuation*	Cam Marklowitz
October 17, 2013	Geothermal Technology	Ken Carpenter
November 21, 2013	Sustainable Energy	Dr. Umesh Korde
December 19, 2013	TBD	TBD
January 16, 2014	14th Annual Electro – Technology Expo	Multiple
February 20, 2014	Refrigeration	Al Cornella
March 20, 2014	Building Codes	Jeff Larus
April 17, 2014	TBD	TBD
May 14, 2014	Coca Cola Bottling Tour	

\* Completed Program

Send program suggestions to: Lance Rikala  
(P) 605-334-2164  
(F) 605-334-9642  
[programs@blackhillsashrae.org](mailto: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](mailto:membershippromotion@blackhillsashrae.org) or submit an application.

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AN INTERNATIONAL ORGANIZATION