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Integrating Renewable Energy Systems into Buildings

Tuesday, May 13, 2014 Meeting

This presentation introduces technical opportunities, means, and methods for incorporating renewable energy (RE) technologies into building designs and operations. The speaker will give an overview of RE resources and available technologies to offset building electrical and thermal energy loads. Methods for applying these technologies in buildings and the role of building energy efficiency in successful RE projects will be addressed. The speaker will discuss issues related to connecting RE systems to existing electrical grids and offer tips for implementing successful RE projects. Finally, the speaker will provide a case study in which many of these strategies were incorporated into the design of large zero-energy office building.

SDSM&T Classroom Building

Room 203

Rapid City, SD

12:00 PM - 1:00 PM

Presented By:

Sheila J. Hayter

ASHRAE Distinguished Lecturer

National Renewable Energy Laboratory

Sheila Hayter is a Group Manager within the U.S. Department of Energy's (DOE) National Renewable Energy Laboratory (NREL) in Golden, Colorado, USA. In this capacity, she leads a team of technical and policy experts who support entities on energy efficiency (EE) and renewable energy (RE) topics with the goal to make significant reductions in non-renewable energy consumption through energy efficiency and increased use of RE technologies. Since joining NREL in 1992, Ms. Hayter's work has included leading efforts to assist U.S. federal government agencies and municipalities, including New York and Boston, develop EE and RE strategies and incorporate strategies into policies, procedures, and specific projects with the intended result of widespread application of EE and RE technologies in addition to writing papers, giving conference presentations, and developing/giving training related to high-performance buildings. Ms. Hayter is registered professional engineer in the State of Colorado.

Ms. Hayter served on the ASHRAE Board of Directors as a vice president (2009 – 2011) and also as a Director at Large (2005 – 2008). She currently chairs the Planning Committee and is leading ASHRAE's effort to rewrite the Society strategic plan and has chaired, been a member of, and served in leadership roles of many other society committees. Ms. Hayter received an ASHRAE Technology Award in 1999, the ASHRAE Distinguished Service Award in 2001 and the Exceptional Service Award in 2011 and was named an ASHRAE Fellow in 2008.

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President's Message

We have reached the final month of our ASHRAE year, and we have reached the end of our traditional 2 year term. I would like to take this time to thank each of the committee chairs and officers for their hard work and dedication to our local chapter, it has been greatly appreciated. This being said, we are now tasked with electing the committee chairs and officers for the next 2 year term. The committee chair and officer position nominees are as follows:

President_____	David Dowling
Vice President and Secretary_____	Ethan Grover
Treasurer_____	David Van Dale
Membership_____	Mike Malone
Research Promotion_____	Matt Koupal
Technology Transfer_____	Mike Austin
Student Activities_____	Jeremy Clocksin
Webmaster_____	Michael Heinrich
Historian_____	John Huntley
Newsletter Editor_____	Lance Rikala

We will open up discussion for these nominees at the next meeting so I hope you all can attend.

This month's meeting should be exciting program since we will have the privilege of distinguished lecturer Sheila Hayter from NREL to discuss Integrated Renewable Energy Systems into Buildings.

Lastly we are in need of financial support for the Student Branch of the Black Hills Chapter; this is to cover the cost of student membership fees which is \$20 per student. Personally, I am sponsoring one student and I challenge everyone to do the same. One year ago, we were able to raise \$930 through our efforts and it would be nice if we could do the same or better this year. If you would like to contribute, please bring your sponsorship to our next meeting making all checks payable to Black Hills ASHRAE.

David Dowling, Vice President, Black Hills Chapter of ASHRAE

2015 CRC Planning Meeting

Monday, May 12th
4:30 PM

West Plains Engineering Conference Room
1750 Rand Road
Rapid City, SD 57702

Please join our CRC committee as it works out the details of the upcoming CRC hosted by the Black Hills Chapter.

Upcoming Events

Make plans now to attend the ASHRAE 2014 Annual Conference in Seattle, Washington, June 28 – July 2, 2014.

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

Make plans now to attend the 2014 ASHRAE/IBPSA-USA Building Simulation Conf. in Atlanta, GA, Sept. 10 – 12, 2014.

Obtain more information about the conference by visiting: <http://ashraem.confex.com/ashraem/emc14/cfp.cgi>

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Upcoming Event

The date for this year's API/ASHRAE Golf Outing has been set – July 24th. Please mark this date on your calendars!

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	Action Mechanical Sheet Metal Shop Tour*	
December 19, 2013	Building Codes*	Jeff Larus
January 16, 2014	14th Annual Electro – Technology Expo*	Multiple
February 20, 2014	City/School Common Energy Plant Tour*	
March 20, 2014	Compressors and Refrigerants*	Dave Dauberman
April 17, 2014	ASHRAE Webinar*	Multiple
May 13, 2014	Integrating Renewable Energy Systems into Buildings	Sheila J. Hayter

* Completed Program

Send program suggestions to: Lance Rikala
(P) 605-334-2164
(F) 605-334-9642
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.

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