

ASHRAE BLUEPRINT

September 2013

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Rob Marshall

President Elect
Michael Thompson

Vice President
Ryan O'Connor

Secretary
John Schwartz

Treasurer
Stuart Oster

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Michael Heeney

2nd Board Member
Open

3rd Board Member
Open

Membership
Keith Luke

YEA
Keith Luke

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Matt Hein

CTTC
Paul Bezdicek

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Kacie Olson

Honors & Awards
Bob Everson /
Mike Thompson

Research Promotion
Ryan O'Connor

Newsletter
Ryan Van Der Bill

Publicity
Ken Wickre

Special Events
Jeff Horstmeyer /
Isaac Anderson

Reception
Blake Lynch

PAOE Watch Dog
Bob Everson

Government Affairs
Brian Miller

Refrigeration Committee
Jeremy Eitrem

Webmaster
Ryan Jervik



PRESIDENT'S MESSAGE Rob Marshall

**Chapter Meeting: Thursday, September 12th, 2013 @ Westward Ho
Social 11:30 AM, Lunch 11:45 AM, Program 12:00-1:00 PM**

Please note the meeting is not on the normal first Wednesday for this month only.

RSVP at the link below no later than Monday, September 9th.

<http://www.surveymonkey.com/s/XDWJYVS>

ASHRAE Members and Guests,

It's that time of year again when school is starting and football games are under way, which also means we're ready for another "season" of ASHRAE! Our goal this year is to continue the strong tradition that our local ASHRAE chapter has had for so many years and to provide you with quality programs that will help educate you on important topics in our industry. We plan to have a good mix of lunch and dinner meetings in order to provide opportunities that fit with a variety of busy schedules.

Mike Thompson and I attended the annual Chapter Regional Conference (CRC) in Boise, Idaho in early August. The Boise Chapter did an excellent job of hosting this event. Our chapter was again recognized for maintaining our Premier status. There are only two chapters in our region that have maintained this status since the inception of the chapter. As we all know, the key to maintaining a strong chapter is to continue encouraging young engineers' involvement, so please encourage your new employees or coworkers to get involved in ASHRAE. We are always looking for people to help on committees and we won't turn people away! We are currently looking for nominations to fill our two Member at Large positions, so please let one of the board members know if you are interested or know of someone that may be interested in starting their journey as an ASHRAE Board Member.

One of my goals as Chapter President is to update our website, in order to allow members to register and pay for meeting meals and special events online, as well as maintaining current speaker information. This will also allow us to keep our members more up-to-speed on what is happening with our local chapter and at a society level. Our ultimate goal is to provide more value to our members by making information more accessible. We're always looking for suggestions so please don't hesitate to contact me with your thoughts.

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We are very fortunate to have a Distinguished Lecturer (DL) as our guest speaker this month. Tom Meyer has graciously committed to speaking to our chapter, as well as presenting at the Plain Green Conference and to the students at SDSU. You can learn more about the Plain Green Conference by visiting www.plaingreen.org. The Plain Green speaker schedule is also shown below in the BluePrint. We are technically only allotted one DL every other year so let's show our support to Tom and have a great turn out for our September meeting. This meeting will be a joint meeting with the USGBC Chapter. Thank you in advance for your participation and support of the South Dakota ASHRAE Chapter. I look forward to seeing you all at Westward Ho!

CTTC **Paul Bezdicek**

This month we are pleased to welcome Tom Meyer, with a presentation entitled *Water, Water Everywhere. Which Drop to Drink?* Please see his biography information below.

TOM MEYER **President, Praxis Green Incorporated** **Neenah, WI**

Mr. Tom Meyer, CSME, GGP, CBCP, QCP, is the principal of Praxis Green Inc, an international training and consulting company specializing in green, high performance, and energy efficient mechanical systems. Mr. Meyer is a graduate of The Ohio State University with over 20 years experience in hydronics. Most recently, he was president of Precision Hydronics Corporation, an international design, consulting and training firm. Mr. Meyer was the founding Executive Director of the Green Mechanical Council (GreenMech), an international non-profit. Mr. Meyer was an ASHRAE liaison to the US Green Building Council, and a member of the Greenbuild Program Committee for six years. He is a member of the US Senate's High Performance Building Council, IAPMO Green Technical Committee, and is an advisor to the office of the Architect of the Capitol in Washington DC. He has worked with several national agencies and foreign governments including Turkey, India, Kuwait, Canada, and Australia. Active in ASHRAE, Mr. Meyer is a member of many committees including: SSPC-90.2 *Energy Efficient Design of Low-Rise Residential Buildings*; TG-1 *Exergy Analysis for Sustainable Buildings* (Vice Chair); SSPC-134 *Graphic Symbols for HVACR* (Chair); TC-6.5 *Radiant and In-Space Convective Heating* (past Chair) and ASHRAE PMP-Best Practices Design Guide Committee. Mr. Meyer has been a speaker for organizations such as ASHRAE, RPA, RSES, AHR, CFI, MREA, COSA, and the Green Mechanical Council. He has written several articles, training modules and two textbooks.

LECTURE TOPICS

A Taste of GreenSpeak – The Language and Culture of Green

GreenSpeak is an orientation to the language and culture of Green. The presentation includes definitions to commonly used phrases and words, misconceptions which must be overcome, and identifying trends which make Green not only "mainstream" but the future of our professions.

Building Water Systems – Water, Water Everywhere. Which Drop to Drink?

This seminar discusses potable and non-potable building water systems: rainwater, greywater, black water, and reclaimed water. Topics include definitions, purposes, and potential uses for non-potable water systems, hazards involved and code issues.

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The 2013-2014 South Dakota Chapter ASHRAE Line-up:

Sept 12	Noon	Tom Meyer – Building Water Systems – Water, Water Everywhere. Which Drop to Drink? <i>ASHRAE Distinguished Lecturer</i>
Oct 2	Evening	T.B.D. <i>Student Night / Membership</i>
Nov 6	Evening	T.B.D. <i>Past Presidents Night</i>
Dec 4	Noon	T.B.D.
Jan 8	Noon	T.B.D.
Feb 14 or 15	Valentines Event	
Mar 5	Evening	T.B.D.
April 2	Evening	T.B.D. <i>Student Night</i>
May 3		<i>Fishing</i>
May 30		<i>Golf</i>

Membership Keith Luke

If you know of anyone that may be interested in joining ASHRAE, be sure to tell them about ASHRAE and invite them to a meeting. Membership information can be found at www.ashrae.org/members/ or call Keith at 605-996-7548 with questions.

From ASHRAE HQ:

Enhanced Indoor Air Quality Encouraged Through Free Download of IAQ Guide

ATLANTA – To promote good indoor air quality (IAQ) in buildings, ASHRAE is making available for free a guide for achieving enhanced IAQ.

The Indoor Air Quality Guide: Best Practices for Design, Construction and Commissioning provides strategies to achieve good IAQ using proven technologies and without significantly increasing costs.

First published in 2009, the guide is the result of collaboration between ASHRAE, the American Institute of Architects, the Building Owners and Managers Association International, the Sheet Metal and Air Conditioning Contractors' National Association and the U.S. Green Building Council with funding provided by the U.S. Environmental Protection Agency.

The guide can be downloaded for free at www.ashrae.org/FreeIAQGuidance.

The free download is being offered in support of the presidential theme of 2013-14 ASHRAE President William P. "Bill" Bahnfleth, Ph.D., P.E., Fellow ASHRAE, ASME Fellow. His theme, "Shaping the Next," focuses, in part, on making buildings safe, healthy, productive, comfortable environments in harmony with nature.

"As we move forward in shaping the next generation of buildings and systems, good indoor air quality must be a central focus of our efforts," Bahnfleth said. "The health and comfort of buildings occupants is too important to leave IAQ as an after-thought in design, construction and operation. By making this publication available to the industry, we are providing guidance to help ensure the use of best practices for good IAQ, allowing all of us to enjoy the benefits of a better indoor environment cost-effectively."

The book describes 40 strategies for achieving critical IAQ objectives related to moisture management, ventilation, filtration and air cleaning and source control. It also highlights how design and construction teams can work together to ensure good IAQ strategies are incorporated from initial design through project completion.

The book also contains

- Hundreds of internal and external links to resources for the design, construction, and commissioning of buildings with excellent indoor air quality
- Access to an incredible variety of in-depth information by topic to help you design, construct and operate buildings using best practices for indoor air quality
- Best practices for all aspects of IAQ building design, commissioning and construction, including designing for maintainability
- Tools and material for demonstrating the value of IAQ to clients

ASHRAE Launches Online Discussion Platform

DENVER – Looking to exchange information with your peers about your latest project? Then visit the new online ASHRAExCHANGE discussion platform.

Through ASHRAExCHANGE, the Society is providing both ASHRAE members and others in the industry with an online platform for real-time discussion and information exchange for design, construction, operation and support of the built environment.

The platform, at www.ASHRAExCHANGE.org, was launched at ASHRAE's 2013 Annual Conference being held here June 22-26.

"Many ASHRAE members felt there was a need for a place where both ASHRAE members and non-members alike can freely and openly exchange information focused on the built environment," Spencer Morasch, incoming chair of ASHRAE's Electronic Communications Committee. "The information exchange is informal and takes place in real time. So if you have a question at 3 a.m. on a Tuesday night, you can post that on the ASHRAExCHANGE, and chances are, have a reply posted back to you within 24 hours!"

The platform provides a place for users to post and generate discussion on either a general or specific topic. With thousands of ASHRAE members and non-members checking the ASHRAExCHANGE 24/7, the hope is the online discussions will generate plenty of thoughts and comments from many knowledgeable people, according to Morasch.

Anyone with access to the Internet can view posts, comments and messages on the ASHRAExCHANGE at any time. No registration is necessary, and neither is the need for special software, as everything is web-based.

Users who want to become active participants and be able to post both initial messages and responses to posts are required to register.

To ensure that the online discussions are professional and in good taste, volunteer moderators are on duty to ensure proper use of the ASHRAExCHANGE. Since discussions and posts are informal and being made in real time, it is not possible to check the technical accuracy of information posted. It is expected that the ASHRAExCHANGE will be “self correcting,” if there are any technical errors posted, someone will post a correction as a reply.

“However, no one should use any information posted on the ASHRAExCHANGE as the basis of a design,” Morasch said. “The intention is to help get participants pointed in the right direction or open the thought processes.”

ATLANTA –ASHRAE has announced its next High Performance Buildings Conference will take place April 7-8, 2014, Hyatt Fisherman’s Wharf, San Francisco, Calif.

Building upon the 2012 High Performance Buildings Conference and 2009 Net-Zero Energy Conference, the Conference seeks to advance the industry’s efforts to accomplish a true high-performance built environment.

“The 2014 HPB Conference provides a unique opportunity for dialog among attendees to facilitate understanding of current indoor environmental quality and energy saving efforts and to share best practices for achieving high-performance buildings,” Kent Peterson, Conference chair, said.

The conference topics provide a comprehensive overview of high performance building design with a focus on strategies in several areas, Peterson said. New subject areas include water efficiency, building occupant behavior, new building technologies and indoor environmental quality. In addition, there is increased emphasis on lighting/daylighting and the building envelope.

A case study-type poster session on “Measured Performance” and “Modeled Performance” is presented.

The conference format will include invited speakers as well as a call for presenters and a call for posters, which will be announced in the fall. Additional information can be found at www.hpbmagazine.org/hpb2014.

Attendees will be able to realize the synergy required between indoor environmental quality and energy savings through advanced HPB design through the conference as well as network with other HPB professionals, Peterson said.

The conference is being presented by ASHRAE’s High Performing Buildings magazine, the industry’s premier source for measured performance of practices and technologies to promote better buildings.

ASHRAE Announces 2013-14 Conference Lineup

ATLANTA—Mark your calendars now because ASHRAE’s conference schedule for 2013-2014 is widespread in both dates and global reach.

ASHRAE conferences present the latest developments in the industry and fundamental tried and true practices. Topics range from high performance buildings to buildings that have combustion with low-grade fuels.

- Oct. 15-18, [ASHRAE IAQ 2013: Environmental Health in Low Energy Buildings](#), Vancouver, British Columbia, Canada
- Jan. 18-22, 2014, [ASHRAE Winter Conference](#); Jan. 20-23, AHR Expo, New York, New York
- Feb. 24-26, 2014, [First International Conference on Energy and Indoor Environment for Hot Climates](#), Doha, Qatar
- April 7-8, 2014, [High Performance Buildings Conference](#), San Francisco, Calif.

- April 24-25, 2014, [Efficient, High Performance Buildings for Developing Economies](#), Manila, Philippines
- June 28-July 2, 2014, [ASHRAE Annual Conference](#), Seattle, Wash.
- September 10-12, 2014, [ASHRAE/IBPSA-USA Building Simulation Conference](#), Atlanta, Ga.

The conferences feature peer-reviewed papers, presentations with hands-on information presented in a non-commercial format, Professional Development Hours and networking opportunities.

ASHRAE IAQ 2013 in October 2013 reviews the state of knowledge on the balance between environmental health and energy efficiency in the pursuit of low energy buildings and covers a range of topics: residential and commercial buildings, new construction and retrofit, active and passive approaches, design and operation.

What better city than New York for ASHRAE to host a **Winter Conference** in January 2014 with a Technical Program focused on buildings? The Conference has a building-oriented theme with papers and presentations related to building information systems; environmental health; international design; HVAC&R applications and systems; and, of course, tall building performance.

The First International Conference on Energy and Indoor Environment for Hot Climates in February 2014 tackles energy and indoor environmental quality issues in humid and arid hot climates, providing a forum for discussion of the latest research and developments.

Building upon its 2012 High Performance Buildings Conference and 2009 Net Zero Conference, the **High Performance Buildings Conference** in April 2014 seeks to advance the industry's efforts to accomplish a true high-performance built environment. The tracks include building performance modeling, envelope strategies, lighting/daylighting strategies, indoor environmental quality strategies, building occupant behavior, market value, new building technologies and case studies and lessons learned.

The design, construction and operation of energy efficient, high performance buildings in developing economies have been identified by the building industry and policymakers as key areas where technology, standards and investments are needed. The **Efficient, High Performance Buildings for Developing Economies Conference** in April 2014 will address a number of themes on this topic.

The **2014 ASHRAE Annual Conference** takes place in Seattle, Wash., June 2014. The Conference addresses broad topics in the application of technology to practice, specific applications in ground source heat pumps, operations and maintenance and indoor environmental quality as well as new reports on research taking place worldwide.

Finally, ASHRAE and IBPSA-USA have created a new jointly co-sponsored **Building Simulation Conference** taking place in September 2014 that encompasses the ASHRAE Energy Modeling and IBPSA-USA SimBuild Conferences. The conference is a first for the industry and focuses on "BIM, BEM and SIM – Integrated Building Design and Modeling," addressing building information modeling, building energy modeling and building simulation.

PARTY PLAINER.

PLAIN GREEN 2013 | Friday, September 13, 2013 | Sioux Falls, S.D.

Thursday September 12 5:30-8:30 p.m.	Opening Party ICON Event Hall Sponsored by: Johnson Controls, Swift Construction, ACEI & Stockwell Engineers		
Friday September 13 7 a.m.	Registration & Continental Breakfast Sponsored by: Howalt McDowell Insurance & Millennium Recycling		VIP Breakfast Sponsored by: Your Company (\$4,000)
8-9:30 a.m.	Opening Keynote Opening Remarks Sponsored by: Your Company (\$1,000) Philippe Cousteau Jr. Sponsored by: SDSU Foundation		
9:45-10:45 a.m.	DESIGN TRACK #1 Rusty Smith, Rural Studio Sponsored by: Citi & SD Architecture Foundation	ENVIRONMENTAL TRACK #1 Tom Meyer, Principal of Praxis Green Sponsored by: ASHRAE	LIFESTYLE TRACK #1 Julie Uriab, TIAGA Company Sponsored by: Raven Industries & Woods, Fuller, Shultz & Smith P.C
11-12 p.m.	DESIGN TRACK #2 Tom Oslund Sponsored by: ASLA Great Plains Chapter	ENVIRONMENTAL TRACK #2 Doug Berven - A Brighter Future Above the Ground Sponsored by: Poet	LIFESTYLE TRACK #2 Topic - Speaker Sponsored by: Your Company (\$2,000) & Mt Pleasant Cemetary
12-1:30 p.m.	Lunch Address Candy Chang - Better Cities: Transforming Our Cities Through Art and Design Sponsored by: SDSU - College of Education and Human Sciences Helen Van Zante Endowment		
1:30-2:30 p.m.	DESIGN TRACK #3 Nathan Knutson, VJAA Sponsored by: Your Company (\$2,000) & USGBC	ENVIRONMENTAL TRACK #3 Topic - Speaker Sponsored by: Your Company (\$2,000) & O'Connor Company	LIFESTYLE TRACK #3 Dr. Dawn Flickema, Avera Health Integrated Medicine Sponsored by: Avera
2:45-4:15 p.m.	Closing Keynote Lisa Taylor Sponsored by: City of Sioux Falls & Fresh Produce (\$5,000)		

TBD
Historic Orpheum Theater - Lobby
Historic Orpheum Theater
Session 1 - Theater
Session 2 - Classroom
Session 3 - Black Box



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AIA South Dakota | SDID (South Dakota Interior Designers)

AND THANKS TO OUR FRIENDS:

Brookings Sustainability Council | Sioux Falls Construction | Sioux Falls Design Center