President’s Message

Hello friends! Fall is almost upon us, and the ASHRAE year is officially off to a fantastic start! I was so sorry to miss the first meeting, but heard the speaker was wonderful, and in fine ASHRAE form. We have also had a few more leaders step up to get involved with our group, so things are truly off to a great start.

For those of you who are not aware, a few years back, ASHRAE started a new group within the organization called YEA, or Young Engineers in ASHRAE. YEA is an awesome collection of bright young minds coming together to shape the future of ASHRAE, and it is a great way for new additions to your organizations to find their path and place within our local ASHRAE Chapter. Any ASHRAE member 35 years or younger is automatically a YEA member.

Our local YEA Committee is looking to make some noise in Nebraska. If you are a YEA member or know of YEA members in your office ready to get involved with a great cause please head our way. We would love to know your ideas about activities or events, and help bring them to life for our entire chapter.

And of course, a riddle to send you on your way (this might look familiar – but no one claimed their prize last month):

You are in a candle lit room with a single wooden door, no windows and three light switches labeled A, B and C. You cannot by any means see anything outside the room. The three switches are connected to three lights in another room. They are all currently in the off position. You are given ten minutes in the room with the switches then you will be taken to the room with the lights. At that time you need to label each light with the letter of the corresponding switch. How do you do it?

The first right answer, brought to me at the September meeting wins a free lunch!

CHEERS,

Sarah Poursharafeddin, MBA, LEED-AP

Nebraska Chapter ASHRAE President, 2013-2014

FYI
ASHRAE Indoor Air Quality Guide is now available for free download, see the link below.

https://www.ashrae.org/resources-publications/bookstore/indoor-air-quality-guide
Omaha Meeting – Tuesday, October 8th, 2013

Location: Anthony’s Steakhouse, 7220 F Street, Omaha, NE 68127
Check-in: 11:30 a.m. (Please arrive early to facilitate serving meals)
Lunch: To be served prior to 12:00 p.m.
Menu: Club Sirloin $21.00
Chicken Cordon Bleu $16.00
Grilled Salmon $16.00
Speaker: Brandon Lee Wallace, BRD Noise and Vibration Control, Inc.

Pre-registration for this meeting would be GREATLY APPRECIATED!!!

Reservation required by Monday, Oct. 7th, 2013: Nick Mandel, Specialized Engineering
nmandel@specializedeng.com

Two hour tech session to immediately follow lunch meeting, topic will be: Energy and Flow Measurement in Hydronic Systems: Understanding the Differences in Technologies. See technical session table of contents following newsletter.

Omaha Featured Speaker

Barry Dunham is a Florida licensed PE in both Mechanical and Control system engineering. He has over 15 years of experience in the HVAC industry which includes time spent working for ONICON Inc as a territory sales manager and senior applications engineer as well as consulting engineering experience gained while working for an MEP consulting engineering firm in Florida. He has been involved with a number of projects, both in the public and private sectors, including K-12 projects, data centers, military installations, and college / university campuses. Barry’s main focus over the last few years has revolved around the application of ONICON Inc’s flow and energy measurement products to satisfy the ever increasing metering requirements found in today’s high performance building designs.

Future Omaha Chapter Meetings

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sep. 10th</td>
<td>BRD Noise and Vibration Control, Inc.</td>
<td>11:45</td>
<td>Anthony’s</td>
</tr>
<tr>
<td>Oct. 8th</td>
<td>BTU Metering, Barry Dunham</td>
<td>11:45</td>
<td>Anthony’s</td>
</tr>
<tr>
<td>Nov 12th</td>
<td>TBD</td>
<td>11:45</td>
<td>Anthony’s</td>
</tr>
<tr>
<td>Dec. 10th</td>
<td>TBD</td>
<td>11:45</td>
<td>Anthony’s</td>
</tr>
<tr>
<td>Jan. 14th</td>
<td>TBD</td>
<td>11:45</td>
<td>Anthony’s</td>
</tr>
<tr>
<td>Feb. 11th</td>
<td>TBD</td>
<td>11:45</td>
<td>Anthony’s</td>
</tr>
<tr>
<td>Mar. 11th</td>
<td>TBD</td>
<td>11:45</td>
<td>Anthony’s</td>
</tr>
<tr>
<td>Apr. 8th</td>
<td>TBD</td>
<td>11:45</td>
<td>Anthony’s</td>
</tr>
<tr>
<td>May 14th</td>
<td>Haymarket DEC/Arena Tour Joint with Omaha, LES</td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td>June</td>
<td>ASHRAE Golf Outing</td>
<td>TBD</td>
<td></td>
</tr>
</tbody>
</table>

Chapter Chairpersons:

- Membership Promotion: Chris Hawk
- Research Promotion: Shaun Nienhueser, Matt Sargent
- Student Activities: Kim Cowman, Jake Kopocis
- Chapter Technology Transfer & Omaha Programs: Jake Schanzmeyer
- Lincoln Programs: Mike Barry
- E-Commerce: Eric Granzow
- Historian: Jim Ellis
- Reception: Nick Mandel
- UNO Student Chapter: Lily Wang
- UNL Student Chapter & Chapter Website: Tim Wentz
- Special Events: Rob Harper
- Newsletter: Nick Decker
- Librarian: Bill Wieseler
Lincoln Meeting – Wednesday, October 9th, 2013

**Location:** Valentino’s, 35th & Holdrege, Lincoln  
**Check-in:** Noon (Please arrive early to facilitate serving meals)  
**Lunch:** To be served prior to 12:00 p.m.  
**Menu:** Buffet **$13.00 Please note new price!**  
**Topic:** Energy and Flow Measurement in Hydronic Systems: Keys to Achieving the Desired Result  
**Speaker:** Barry Dunham, PE, ONICON Inc.

Pre-registration for this meeting would be GREATLY APPRECIATED!!!

Reservation required by Tuesday Oct 8th, 2013: Mike Barry, Black Hills Corp  
mike.barry@blackhillsCorp.com

Two hour tech session to immediately follow lunch meeting, topic will be: Energy and Flow Measurement in Hydronic Systems: Understanding the Differences in Technologies. See technical session table of contents following newsletter.

**Lincoln Featured Speaker**

Barry Dunham is a Florida licensed PE in both Mechanical and Control system engineering. He has over 15 years of experience in the HVAC industry which includes time spent working for ONICON Inc as a territory sales manager and senior applications engineer as well as consulting engineering experience gained while working for an MEP consulting engineering firm in Florida. He has been involved with a number of projects, both in the public and private sectors, including K-12 projects, data centers, military installations, and college / university campuses. Barry’s main focus over the last few years has revolved around the application of ONICON Inc’s flow and energy measurement products to satisfy the ever increasing metering requirements found in today’s high performance building designs.

**Future Lincoln Chapter Meetings**

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sept. 11th</td>
<td>BRD Noise and Vibration Control, Inc</td>
<td>Noon @ Valentino’s</td>
</tr>
<tr>
<td>Oct. 9th</td>
<td>BTU Metering, Barry Dunham</td>
<td>Noon @ Valentino’s</td>
</tr>
<tr>
<td>Nov. 13th</td>
<td>State Elevator Inspector, Gerald Brown</td>
<td>Noon @ Valentino’s</td>
</tr>
<tr>
<td>Dec. 11th</td>
<td>Tim Wentz</td>
<td>Noon @ Valentino’s</td>
</tr>
<tr>
<td>Jan. 8th</td>
<td>Lab and Exhaust Pressurization, Jim Ellis</td>
<td>Noon @ Valentino’s</td>
</tr>
<tr>
<td>Feb. 12th</td>
<td>ASHRAE President or UNL MESC Students</td>
<td>Noon @ Valentino’s</td>
</tr>
<tr>
<td>Mar. 12th</td>
<td>DL, Victor Goldschmidt (3 hour tech session)</td>
<td>Noon @ Valentino’s</td>
</tr>
<tr>
<td>Apr. 9th</td>
<td>UNL Controls, Stefan Newbold</td>
<td>Noon @ Valentino’s</td>
</tr>
<tr>
<td>May 14th</td>
<td>Haymarket DEC/Arena Tour Joint with Omaha, LES</td>
<td>TBD</td>
</tr>
<tr>
<td>June</td>
<td>ASHRAE Golf Outing</td>
<td>TBD</td>
</tr>
</tbody>
</table>

- Articles for next month are due by Friday, **November 1st, 2013**
- Please send to:  
  Nick Decker  
  Olsson Associates  
  ndecker@olssonassociates.com

ASHRAE, founded in 1894, is an international organization of 51,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

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

AN INTERNATIONAL ORGANIZATION
Energy and Flow Measurement for Hydronic Systems

Presented By:

Barry Dunham, PE
Territory Sales Manager
ONICON Incorporated, Clearwater, FL
Recent industry trends in metering...

- Orientation toward improving efficiency and reducing energy usage.
- Increased instrumentation density in energy plants
- Campus distributed energy monitoring
- LEED
- EPA ’05 & ESIA ’07 – Government Buildings
Flow and Energy Measurement

I. BTU Energy Measurement for Chilled and Hot Water Systems

II. Water Flow Measurement
   Various technologies including:
   - Insertion Turbine
   - Insertion Electromagnetic
   - Full Bore Electromagnetic
   - Clamp-On Ultrasonic

III. Steam Flow Measurement (Vortex)

IV. Gas Flow Measurement (Thermal)