

ASHRAE BLUEPRINT

April 2016

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PRESIDENT'S MESSAGE

Ryan O'Connor

**Chapter Meeting: Wednesday April 6th @
Westward Ho (The Country Club of Sioux Falls)
Social 5:30, Supper 6:00, Program 6:15-7:15**

RSVP at our Chapter homepage (www.sdashrae.org) no later than Noon on Monday, April 4th. <http://sdashrae.org/meetinginfo.php>.

Meal cost is \$15.

I hope you had a wonderful and perhaps transformational Easter weekend. Another ASHRAE season is nearly behind us. This year we have tried to expand on this notion of making connections through ASHRAE. As I have said before, this society is what you make of it. We have accomplished most of our goals and I hope you benefited professionally and socially as a member of the SD Chapter.

In addition to Past President's night, our final meeting of the year will have a speaker from Trox discussing Chilled Beam applications and the benefits of applying these units. I hope you will come out and spend some time socializing with members, both past and present, and learn a little more about your industry. Historically, our chapter had more opportunities to engage socially with other members, in order to capture more of that good will, we are going to end the evening with a poker tournament with the proceeds going towards ASHRAE Research.

Supplemental articles are easy to ignore, so I'll draw your attention to them. We performed an interview with a future society president regarding ASHRAE Fellowship, it provides some insight into the greater society. Additionally we have an encouraging note from the youngest SD Chapter President. Coincidentally, the youngest SD President happens to be someone I have admired since I was a child... I hope you enjoy these articles.

As my final Presidents Message, I would just like to thank the Board for their help in making this year successful. I would also encourage you to get involved, if we all contribute, we will continue to have a great chapter.

See you at The Club!

Ryan O'Connor

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EVENTS Kevin Eggert

Notice: A no limit Texas Hold'em poker tournament to benefit the ASHRAE research program will be held on April 6th following the ASHRAE meeting. Games will begin at 7:30 p.m. and end with a chip count at 10:30 p.m. Prizes will be awarded to the top chip holders. If cards is not your game please feel free to stay and watch the action. Please watch your email for a chance to register.

CTTC Mike Fellows

Guest Speaker: Edward Fruth, Regional Sales Manager, Northeast, TROX USA, Inc. Please see the attached information regarding the speaker's presentation: "Designing with Multi-Service Chilled Beams"



Edward Fruth is a Regional Sales Manager for Georgia-based TROX USA, Inc., the leading manufacturer of chilled beam systems in North America. Mr. Fruth, based in Boston, Massachusetts, supports and trains the company's independent distributors and works directly with consulting engineers and architects in the Northeastern United States seeking the latest and most innovative, energy-efficient HVAC systems for sustainable commercial building design.

Edward Fruth is a Boston native with over 35 years' experience in the HVAC industry. His extensive career includes building operations, energy management, and the commercial HVAC equipment industry (large chillers and air handlers). He is not only an expert in his field, but is uniquely qualified to expand TROX USA's customer base in the region with his strong industry contacts. Prior to joining TROX USA, Ed has held positions as a building manager, energy consultant (performance contracting), director of training, business owner and many sales management roles. His responsibilities include managing sales in the Northeastern United States and promoting lab and clean room control systems in North America.

TROX USA, Inc.

TROX USA, Inc., the North American market leader in the sale and design of chilled beam systems, was formed in 1996 and has nearly 50 employees involved in product development, sales, service and manufacturing of energy efficient heating, ventilating and air-conditioning (HVAC) solutions for non-residential buildings, including offices, schools, hospitals, labs and performing arts facilities. The company manufactures chilled beams, underfloor fan terminals, raised floor diffusers and displacement diffusers in its Georgia facility, which includes state-of-the-art research and development facilities equipped with the latest data acquisition and measurement technologies to allow for mock-up testing of the most critical room air distribution applications. For additional information, visit www.troxusa.com.



Please join us....

AIA Presentation
Designing with Multi-Service Chilled Beams

Presenter: Edward Fruth
Regional Sales Manager, TROX USA, Inc.

Learning Objectives

- The construction program savings associated with multi- service, pre-commissioned chilled beams compared to other systems.
- The structural savings possible with the increased floor to ceiling height by reducing the amount of pipe and duct work required throughout a building.
- The energy efficiency achieved with a mixed air water system.
- The architectural benefits and advantages in terms of design flexibility.

1 AIA CES Learning Unit (LU)

Course: AIATROX101

Provider No: 40107288



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History Eric Johnson

Interview with Sheila Hayter - ASHRAE Society Treasurer; FASHRAE

SD Chapter: What does it mean to be an ASHRAE Fellow?

Sheila: It truly is an honor to be an ASHRAE Fellow because it is a recognition given by one's ASHRAE peers for having attained distinction and made substantial contribution in HVAC&R and in the built environment. "Distinction" is defined as being considered a person of excellence within the buildings industry. "Substantial contribution" refers to having made notable, unique contributions to the industry that resulted in the advancements that support the ASHRAE mission.

SD Chapter: How does someone become an ASHRAE Fellow?

Sheila: One becomes an ASHRAE Fellow through a nomination process that is initiated by an ASHRAE member and supported by at least one ASHRAE Fellow member. Identifying who should be nominated can be done by an individual who believes one of his or her peers deserves the recognition or through a process chapters or any other group within ASHRAE may have in place to ensure deserving members receive recognition for the impact they have made during their careers. There is no minimum age required of nominees, only that the nominees have been ASHRAE members in good standing for at least 10 years. Once an individual has been identified, there is a nomination package that must be completed and submitted. This package includes a detailed yet concise description of the individual's career contributions and the impact of those contributions along with letters of support from the individual's peers confirming his/her qualifications to become an ASHRAE Fellow. The ASHRAE Honors and Awards Committee reviews these nominations and makes a recommendation to the ASHRAE Board of Directors (BOD) as to which individuals should be recognized as ASHRAE Fellows. The BOD then votes on this slate of nominees.

SD Chapter: Why would anyone want to be an ASHRAE Fellow?

Sheila: The distinction of an ASHRAE Fellow brings validation that the individual is an industry expert. It shows the individual is making a difference in our industry. The recognition of ASHRAE Fellow ensures professional respect from industry peers. Being an ASHRAE Fellow also comes with the responsibility to continue serving and/or being a leader within the industry. In addition, I personally feel I have a responsibility to continually give back to my chapter and to ASHRAE as a way saying, "thank you" to my peers who believed I should be recognized in this way.

Membership Nathan Larson

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 Nathan at 605-996-7548 with questions.

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History (Continued)

Eric Johnson

Why ASHRAE

by

Bob O'Connor

After working for my father for two years and at the tender age of 22, Irish made clear to me that the local ASHRAE chapter functioned as the muscle and sinew that held the HVAC industry together. And just as importantly, the local ASHRAE chapter offered a neutral ground for every element of our industry to gather. "These gatherings," my father said, "are very important meeting grounds to learn that your competitors are not the devil incarnate and to socialize with your customers so you can pursue common goals that build our industry in ways that benefit everyone."

With that kind of encouragement (and an open expense account at the Westward Ho) I immediately applied for membership, believing that due to my lack of technical education, I would be rejected. Five months later I was accepted as an "Associate Member" which was fine with me. After years of steady attendance and volunteering in other capacities, I was approached by Cal McNally who managed the local branch of the Crane Company. Cal told me that the "senior" members of ASHRAE had noticed my enthusiasm for ASHRAE and would place me on the board as a "member at large" with the expectation that I would work my way through the chairs. I agreed to serve.

From the first day I entered the office of the O'Connor Company, my father impressed on me that the ASHRAE handbooks were the bible of the HVAC industry and if I needed to research a technical answer, these handbooks were all I needed. Oh, and he also said that if I asked him a technical question without first trying to solve it myself he would dock my pay \$10 that week. My starting pay was \$75/week so the fine was substantial but he never had to levy it.

My youth was both a blessing and a curse both in my job and within ASHRAE. A few of the most senior members had significant reservations about my capacity but my performance settled those fears. I saw my presence on the board and at the helm of our chapter as one way I could make faster headway in building relationships and for gaining a wider credibility within the local industry. With no Bachelor's degree (in engineering or anything else) you might say I felt I had something to prove. Since the inception of the PAOE, our chapter earned it, most of the time at double the points required. This legacy weighed on my mind the entire year but my tenure was no different. As I write this, the SD chapter may be the only remaining ASHRAE chapter to claim this Premier status.

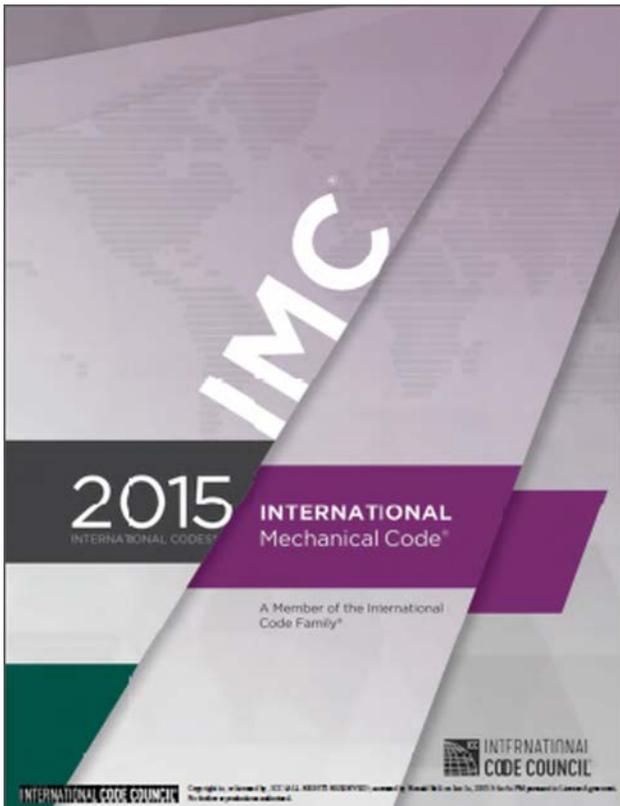
Due to members being transferred and other life circumstances we lost a few board members during my journey up the ladder so I skipped two positions and at the tender age of 30, I was elected President of our chapter in 1982. It was also one year prior to two other seminal events in my life: Dad retiring (with me assuming presidency of The O'Connor Group) and the failure of my first marriage. I had many wrenching changes to deal with but I found the responsibilities of ASHRAE focused my mind in a healthy way.

The early 80's were an interesting period in our industry (explosion of VAV design, emerging energy standards, and accelerating product cycles) but in terms of how our chapter functioned, it was just another exceptional year. All the committee's performed as expected, monthly meetings were well attended and generally interesting speakers were scheduled well in advance of the meeting date. The social events (golf outing, Christmas party and a mid-winter event without wives) were all well attended and enjoyed. Almost every meeting was followed with a poker game attended by most of the local industry luminaries, led of course by Irish O'Connor.

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The 2015-2016 South Dakota Chapter ASHRAE Line-up:

Sept 9	Noon	Pat Carus, M.S. – Data Aire <i>“Precision Cooling Basics for Today’s Data Management Needs”</i>
Oct 7	Noon	Kristi Honeywell, South Dakota State Engineer <i>“State Government’s Energy Reduction Efforts”</i>
Oct 30	ASHRAE Shootout	Hunter’s Pointe, Humboldt, SD. Sporting Clays.
Nov 4	Afternoon Seminar	Dan In-Hout, Chief Engineer, Krueger <i>“All About Air Distribution”</i>
Nov 4	Evening	Dan In-Hout, Chief Engineer, Krueger <i>“You Can’t Afford Discomfort”</i> ASHRAE Distinguished Lecturer Student and Past Presidents Night
Dec 9	Noon	Steve Larsen, Growth Coach & Go Forward <i>“Making Connections”</i>
Jan 6	Noon	Sheila J. Hayter, PE, FASHARE, LEED AP ASHRAE Distinguished Lecturer <i>“Integrating Renewable Energy into Building Systems”</i>
Feb 19	Valentines Event	Olde Towne Dinner Theatre
Mar 9	Noon	Lily M. Wang, Ph.D., P.E. <i>“Acoustics That Make the Grade: Improving Sound Performance in Classroom Environments”</i> ASHRAE Distinguished Lecturer
Mar 9	1:30-2:30	Lily M. Wang, Ph.D., P.E. <i>“How Does HVAC Noise Affect Worker Comfort And Performance”</i> ASHRAE Distinguished Lecturer
April 6	Evening	Edward Fruth, Regional Sales Manager, Trox <i>Designing with Multi-Service Chilled Beams</i> Student Night and Past Presidents Night
April 6	7:30-10:30 PM	<i>Poker Night after the meeting. Support ASHRAE Research and win prizes.</i>
April 21	12-3	ASHRAE Sponsored Webcast <i>“Making Net Zero Net Positive”</i>
May 27		<i>Golf – Brandon Golf Course</i>



2015 Code Update Classes

Where:

**Southeast Tech Sullivan Health
Science Center (Middle Building)
2320 N. Career Ave.**

When: 6:00 PM

Contractors A-H Tuesday April 12

Contractors I-Z Thursday April 21

(Assignments are a suggestion to even out attendance)

Consultant engineers, technicians, Architects, and all are welcome to attend to find out about the significant changes to the International Mechanical Codes for 2015



Making Net Zero Net Positive: Solving the Efficiency & Cost Paradox

April 21, 2016 | 1:00–4:00 p.m. EDT

This webcast will feature industry experts who will define the importance of, and why we should strive for, net zero in the built environment. Viewers will be able to identify behaviors that create more effective ownership, design and construction teams, and will recognize the value of a collaborative process in building design and the impact on costs. With a strong emphasis on real-world applications, the program will also discuss the primary technical and financial challenges in achieving net zero buildings, and where this design approach can best be applied.

Attend this FREE webcast program and you may be awarded three Professional Development Hours (PDHs).



T. David Underwood, P.Eng.,
Fellow ASHRAE,
Life Member, CPMP



Marc Brune, P.E.



Philip Macey, AIA



Paul Torcellini,
Ph.D., P.E.