

# BUFFALO TALES

Newsletter of the Manitoba Chapter

*The Manitoba Chapter of the American Society of Heating, Refrigerating and Air Conditioning Engineers was chartered in September 1935. It is the second oldest ASHRAE Chapter in Canada. ASHRAE Manitoba is part of ASHRAE Region XI and covers ASHRAE members in Manitoba and Northwest Ontario.*



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## Thursday April 16, 2009

### ASHRAE Distinguished Lecturer

### Stan Mumma

### 1:30 to 4:00 PM – Chilled Ceilings, Floors, and Beams

**E.H. Price Training Room - 638 Raleigh Street Winnipeg**

Registration @ 1:00, Seminar Starts @ 1:30, Lab Demonstration @ 3:30, Close @ 4:00

**Chilled Ceilings, Floors, and Beams** have been met with skepticism by many US engineers due to problems encountered with systems installed in the 1960's, as well as an on-going perception that condensation, capacity and cost are insurmountable problems. Dr. Mumma will forthrightly address these three issues. And he will elaborate on the performance of integrated DOAS Chilled Ceiling, Floor or Beam systems in the areas of human comfort, safety including terrorist resistance, and LEED/sustainable design. Both design and operating experiences from buildings employing these technologies will be discussed. Finally, the chilled ceiling, floor or beam engineering design process will be laid out, including emphasis on the need for DOAS when chilled ceiling/floor/beam projects are undertaken.

See attached registration form or visit our website at [www.ashraemanitoba.ca](http://www.ashraemanitoba.ca)

### Dinner Meeting - Dedicated Outdoor Air Systems (DOAS) - Design and Field Experiences

Victoria Inn, 1808 Wellington Avenue

Social Hour at 5:00, Supper at 6:00, Presentation after supper

**Applications of DOAS** have expanded significantly over the past 5 years. As a result, Dr. Mumma's presentation focus has shifted away from "The Reasons Engineers Are Seriously Considering Them" to "DOAS Design Field Experiences". Specific attention will be given to controls, enormously expanded equipment choices, comfort and ADPI, energy performance, humidity control, loss of air side economizers, LEED points, parallel systems, and pitfalls.



**Dr. Stanley Mumma** is currently Professor Emeritus of Architectural Engineering at Pennsylvania State University. Prior to joining Penn State in 1984, he was a General Motors Corporation project engineer for three years between his undergraduate studies in Mechanical Engineering at the University of Cincinnati, and his graduate work at the University of Illinois at Urbana-Champaign. Since earning his Ph.D. in Mechanical Engineering in 1974, under the mentorship of Dr. Will Stoecker, he has also held faculty positions at Ohio State University and Arizona State University.

In the first third of his academic career, his research focused principally on solar

and alternate energy. Then his interests changed to innovative ways of meeting ASHRAE Standard 62 in an energy efficient fashion. That work has led to his current intense interest in dedicated outdoor air systems (DOAS). He writes extensively on the subject (see <http://doas-radiant.psu.edu/papers.html>). Two of his publications were recipients of ASHRAE best paper awards. He has also received ASHRAE's Distinguished Service Award, the E.K. Campbell Award of Merit, and the grade of Fellow. Currently, Dr. Mumma is a member of several Technical Committees and the Society Publishing Committee.

LECTURE TOPICS:

## President's Message

Sergio Almeida, P. Eng.

History is one of life's greatest teachers. We often make decisions and look forward without understanding the past, making mistakes that are entirely avoidable.

The greatest example of this is war. Countries go to battle in far-away lands, engaging an enemy they know little about, fighting a battle that – unbeknownst to them – they cannot win. If the leaders would only take a moment to look at history, see the mistakes of past generations, their thought process would surely change.

The economy and markets are another source of frustration in this matter. Analysts are quick to point out convenient facts in order to illustrate their point, but these are often misconstrued or taken out of context. The current economic downturn has been a shining beacon of this, as we hear quotes like “not since the Great Depression”. Comments like these show a complete lack of understanding of the events of that time, and are devoid of compassion for those who lived it. Losing 30-40% of your stock portfolio does not compare in any way to people lining up for miles, just to receive food rations. It was a very different time and we can learn a lot from the mistakes made back then.

So today I encourage you all to take a moment to learn about history. Study something that happened 100 or even 1000 years ago. Or better still, look at what happened in the last decade or two in your business or even your personal life, and understand the consequences of our decisions.

Cheers,  
Sergio



## Coming Events

**April 7 & 8, 2009 – Better Buildings Conference, Winnipeg Convention Center** - “Our Sustainable Future” For details, go to [www.betterbuildingsconference.com](http://www.betterbuildingsconference.com)

**April 22, 2009 – ASHRAE/US EPA Satellite Broadcast** “Clean, Lean, and Green - IAQ for Sustainable Buildings”. The program will highlight the “*Indoor Air Quality Design Guide: Best Practices for Design, Construction, and Commissioning*” currently being developed through the collaboration of ASHRAE, AIA, BOMA, EPA, SMACNA and the USGBC. Online registration for site coordinators and webcast viewers begins **March 2<sup>nd</sup>** at [www.ashrae.org/iaqbroadcast](http://www.ashrae.org/iaqbroadcast). Registration for satellite viewers begins **March 16<sup>th</sup>**. Information about the program and speakers is available at [www.ashrae.org/iaqbroadcast](http://www.ashrae.org/iaqbroadcast). Three (3) PDH credits may be granted to those who view the program and then complete the Participant Reaction Form online by April 30, 2009.

**May 6-9, 2009 – CRC** (ASHRAE Chapters Regional Conference) in Spokane, Washington. For events schedule, registration and accommodation details go to <http://www.ie-ashrae.org/2009CRC>

### **Free** Webcast Focuses on IAQ for Sustainable Buildings

ASHRAE’s satellite broadcast/webcast “Clean, Lean, and Green – IAQ for Sustainable Buildings,” will take place **April 22** from 1 to 4 p.m. EDT. This broadcast is sponsored by ASHRAE’s Chapter Technology Transfer Committee with support from the U.S. Environmental Protection Agency. It will highlight guidance from the publication *IAQ Guide: Best Practices for Design, Construction, and Commissioning*, developed collaboratively by ASHRAE, AIA, BOMA, EPA, SMACNA and USGBC and challenge the building community to use good IAQ practices to create a more sustainable built environment.

“Saving energy in buildings is paramount but sustainability must never come at the expense of good indoor air quality. Proper operation and maintenance of buildings must be combined with enhanced IAQ practices to ensure healthy, productive indoor environments” says Dave Shugars, Chair of the Satellite Broadcast committee.

Broadcast presenters and their topics are:

- Martha Hewett, Director of Research, Center for Energy & Environment, Minneapolis, MN
  - Practical, Proven Strategies to Deliver Better IAQ
- Hoy Bohanon, PE, Owner and Manager of Bohanon Engineering, PLLC, Winston-Salem, NC
  - Improving Your IAQ and Reducing Your Energy Costs through HVAC Design
- H.E. Barney Burroughs, Owner and CEO of Building Wellness Consultancy, Inc, Atlanta, GA
  - Keeping Buildings Clean: Avoiding and Building Control of Contaminants to Attain and Maintain IAQ Acceptability
- George DuBose, Certified General Contractor, Liberty Building Forensics Group, Orlando, FL
  - Avoiding Costly IAQ Problems in the Building Envelope
- John McFarland, PE, Director of Engineered Systems, WorkingBuildings, LLC, Atlanta, GA,
  - Integrating Good IAQ into the Design & Construction Process

For more information about the broadcast, please call (678) 539-1206, visit [www.ashrae.org/iaqbroadcast](http://www.ashrae.org/iaqbroadcast) or e-mail [ashrae-satellitebroadcast@ashrae.org](mailto:ashrae-satellitebroadcast@ashrae.org). Online registration for

satellite site coordinators and Webcast viewers will begin March 2, and viewer registration will begin March 16. There is no fee for registration.

## Hadley Tank and Armament

Legend has it that Hadley Tank and Armament was formed by a group of artists and other bohemians in the 1960's. They wanted credit cards and/or bank loans but their chosen vocations, or lack thereof meant they didn't qualify. To get around this, they registered what they thought of as an absurd company name (Hadley Tank and Armament) and gave themselves titles as officers of the fictitious Hadley Tank and Armament. Not only did this give them the credentials at the bank, but it brought them to the attention of the US military establishment. They got invites to bid on military contracts and to participate in events and trade shows related to military hardware. These events and trade show invites often included transportation, accommodation and lavish banquets at military expense.

The legend goes on to note that the military tracked the performance attributes of their suppliers by defaults. A few years after being formed, Hadley Tank and Armament began to get awards for never having had a cost overrun or a late delivery on a military contract. My memory has it that this story was written up in Playboy in the late sixties and early seventies. A colleague has similar recall and says he believes that it was presented as a true story. I can't find it on Wikipedia, but a friend used to say "if it is a good story, it doesn't matter if it is true."

Some recent events in my own life have me feeling somewhat of Hadley Tank and Armament-ish. I sit on a number of committees and boards. One in particular position has consumed a lot of my time for the past few years (more than 30 days per year including travel then there are extra assignments). In committee meetings where additional work assignments are delved out I have kept my head low and my mouth shut. As a result, I have mostly avoided ending up on the "to do" lists for additional work assignments. Based on my performance on this committee (never late with assignments, never sticking my foot in my mouth), I have been asked to let my name stand for Vice Chair.

I think Abraham Lincoln said "It is better to remain silent and have people think you are a fool than to speak out and remove all doubt." The result in my case seems to be an overwhelmingly strong endorsement of that grain of wisdom offered up by honest Abe.

## ASHRAE Research – David Stones, Chapter RP Chair

Individuals and organizations are encouraged to contribute to Research Promotion for ASHRAE Research Canada. Canadian contributions support research in Canada. Canvassing is ongoing and we will be approaching more Chapter members and organizations to support this work. We have currently reached 75% of our chapter's goal for the current year. For information on how to contribute, contact me at [dstones@shaw.ca](mailto:dstones@shaw.ca) or [dstones@waa.ca](mailto:dstones@waa.ca) Below is a listing of contributors to 2009.

### Major Contributors

<b>Manitoba ASHRAE Chapter</b>		<b>\$1,000</b>	
Nova 3 Engineering	\$500	Airdronics Incorporated	\$250
John Brighty	\$200	Bert Phillips	\$200

### Honour Roll and Other Contributors

(Honour Roll - at least \$100 personal  
or \$150 corporate)

Sergio Almeida  
Dieter Bartel  
Robert Bisson

Daryl Friesen  
Russell Lavitt  
George Marchildon  
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Jesse Sandhu  
David Stones  
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## ASHRAE Region XI Officers

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ASHRAE, founded in 1894, is an international organization of 55,000 persons. Its sole objective is to advance through research, standards writing, publishing and continuing education the arts and sciences of heating, ventilation, air conditioning and refrigeration to serve the evolving needs of the public.

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