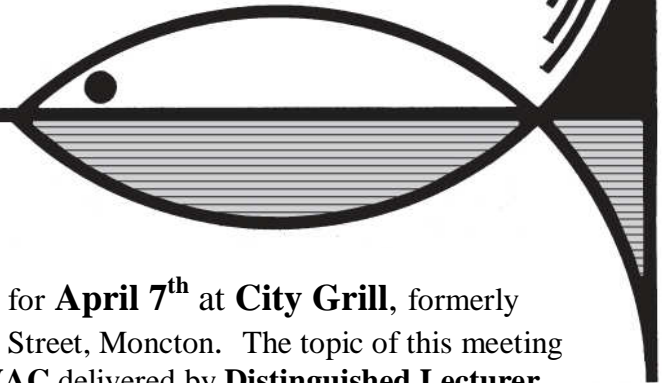




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NB PEI CHAPTER



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This month's meeting is scheduled for **April 7th** at **City Grill**, formerly Boomerangs, on 120 Westmorland Street, Moncton. The topic of this meeting will be **The Human Factor in HVAC** delivered by **Distinguished Lecturer Robert Bean R.E.T.** A social hour will begin at 5:00 PM with a cash bar, followed by the presentation at 6:00 PM and Dinner at 7:00 PM.

April's meeting is **Research Promotion Night.**

A reminder to the Executive, Board of Governors, and the Committee Chairpersons that the executive meeting will start at 4:00 PM at City Grill.

ASHRAE Satellite broadcast/webcast **April 22, 2009 2:00–5:00 p.m.**



Using the guidance provided by the IAQ Guide: Best Practices for Design, Construction, and Commissioning developed through collaboration with ASHRAE, AIA, BOMA, EPA, SMACNA and USGBC, this broadcast will challenge the building community to use enhanced IAQ practices to create a more sustainable built environment. Join ASHRAE in learning more about your role in transforming mid-range practice into best practice for healthy, productive, sustainable indoor environments. This free broadcast/webcast is sponsored by the ASHRAE Chapter Technology Transfer Committee with support from the United States Environmental Protection Agency. For complete details, visit our website at

www.ashrae.org/ibdbroadcast

Registration

There is no fee for registration. Online registration for satellite site coordinators and Webcast viewers will begin March 2, 2009, at www.ashrae.org/iaqbroadcast. Satellite viewer registration will begin March 16, 2009. If you have any questions, call 678-539-1206 or email ashrae-satellitebroadcast@ashrae.org.



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Frédéric R. Desjardins,
 P.Eng., LEED® AP
 Mechanical Design Engineer

Toronto Winnipeg Vancouver Ottawa Moncton Saint John

April Meeting Overview:

Robert Bean, R.E.T., is a Registered Engineering Technologist, a graduate of; The Building Construction Engineering Program, Northern Alberta Institute of Technology, The Alberta School of Drafting, and The Business Owner Transition Program, University of Calgary.

His articles on environmental ergonomics and HVAC mechanics have been published in HPAC Canada, ASHRAE Journal, theNEWS, HVAC-Talk, homeBuilderCanada, PM Magazine, and RPA Report. He is the author/instructor for peer-reviewed courses including the Residential Radiant Hydronics Design Certification Course delivered by HRAI of Canada and ASHRAE's professional development short course on the Fundamentals of Panel Heating and Cooling.

He is a member of the Alberta Society of Engineering Technologist, American Institute of Architects, American Society of Heating, Refrigeration and Air Conditioning Engineers, Heating Refrigeration Air Conditioning Institute of Canada, a past board member and a founding father of the Alberta Hydronics Advisory Council. He was the first chair of the Foothills Conference, a member of the Radiant Panel Associations and past member of the technical committee on floor heating standards and secretary of the snow/ice melting guidelines action group. He currently serves as T.C.6.5 Education Sub Committee Chairman and liaison to the ASHRAE Learning Institute (PDC) and is an acting technical and business liaison between US and Canadian Educational Institutes, Industry Associations, and Committees and has served as a resource to the National Hydronics Design Standards committee for CSA B214 Installation Code for Hydronic Heating Systems. In 2006, Robert was appointed to the National Certification Council for Home and Property Inspectors.

He is the developer and moderator for www.healthyheating.com a not for profit web site on indoor environmental ergonomics and provides professional business and technical services to private clients involved in indoor environmental quality.

LECTURE TOPIC:

The Human Factor in HVAC

This keynote address challenges audiences to look beyond building design processes to satisfy occupant needs. It explores consumers spending habits, influences from shifting demographics, reasons for repositioning HVAC within the healthcare profession, roles and responsibilities of the new 'interior designer', and how viewing the human body as a perfect radiant based HVAC system can lead to effective and efficient electrical and mechanical solutions.



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Summary of last month's meeting

March was Refrigeration night, and Jim Thomas of Refrigerant Services Inc. came in to speak about different types of refrigerants along with several issues we face today with regards to refrigerants.

When old refrigerant is removed from units some of the refrigerants can be reclaimed and reused as long as they pass the strict standards for re-use. The reclamation process involves first identifying what type of refrigerant is in the canister, then if necessary, separating the different components that could make up the refrigerant along with removing any other contaminants that could be in there. If the refrigerant is deemed to be of no use, it is shipped to a facility in either Alberta or Texas where it is incinerated.

Refrigerant Management Canada is a non-profit organization. It is funded by refrigerant companies putting a voluntary levy on all their HCFC's. This levy helps pay for destruction of ozone depleting refrigerants in Canada. To date over 1.4 million kilograms have been destroyed.

Jim then discussed the phase out schedule for HCFC's. This phase out is based on the annual allowable amount of HCFCs based on the Montreal Protocol Terms (3,600 tons) of January 1, 1996. In 2004 the annual allowable amount was reduced by 35%. On Jan. 1, 2010 this allowable amount will be reduced by 65%. Also on this date no new equipment containing R-22 will be allowed to be manufactured or imported. 2015 the annual allowable amount will be reduced to 90% and 2020 to 99.5%. Also no new equipment containing R-123 can be manufactured or imported.

Some common trends and alternative refrigerant ideas were discussed. Some of these trends include using Hydrocarbons such as Propane, Butane, and Isobutane. More than 50% of appliances manufactured in the world use Hydrocarbons. Another big trend is that some projects are using CO2 as a refrigerant, which has a Global Warming Potential (GWP) of 1 vs. a GWP of 2000 for R-410A.

There are also several drop-ins for R-22 on the market today. Some requiring different oils and some are direct drop-ins.

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NB/PEI ASHRAE Chapter Meeting Schedule 2008/2009

April 7, 2009

Research Promotion Night

Topic: Distinguished Lecturer

April 22, 2009

ASHRAE WebCast

Topic: Indoor Air Quality

May 12, 2009

Refrigeration Night

Topic: Dehumidification

June 9, 2009

Membership Night

Topic: Corridor Resources



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