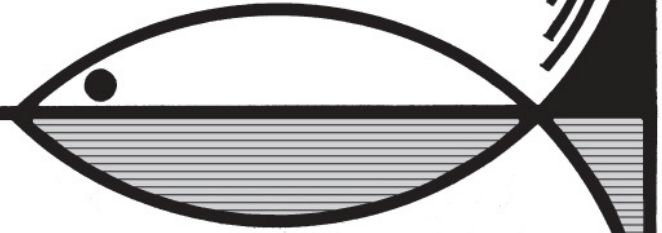




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The May meeting is scheduled during the **MEET Show 2010** on **May 5th and 6th** at **The Moncton Coliseum Complex**. The show consists of an Exhibition for Technology Innovators. This month's meeting will actually consist of two seminars, one topic being **Design Build – Executing the Project**, scheduled for **1:30 PM** on **Wednesday, May 5th**, and the other topic being **Design Build for Green Buildings – Integrated Delivery of an Integrated Idea** is scheduled for **10:00 AM** on **Thursday, May 6th** both located in **Seminar Room A**. These seminars will be presented by **Mr. E. Mitchell Swann P.E., LEED AP**, ASHRAE Distinguished Lecturer.

Executive Meeting Notice

A reminder to the Executive, Board of Governors, and the Committee Chairpersons that the executive meeting be held on May 11th at the Moncton Northeast Construction Association Inc. 297 Collishaw St., Moncton, NB at 12:00 noon.

Summary of April's Meeting

Thirty-two people attend the meeting on April 13, where **ASHRAE Distinguished Lecturer, William J. Coad**, presented a very enlightening talk on *A Fundamental Perspective on Chilled Water Systems*, interspersed with several interesting and amusing anecdotes from his extensive experience. Bill Coad's presentation was well-organized and easy to follow. He concluded his talk by providing handouts of his Power Point slides.

With the help of several line diagrams relating the application of the First Law of Thermodynamics to various load configurations, chiller configurations, and combined systems, he showed the importance of optimizing both coil performance and chiller performance. The first law, as it applies to hydronic systems is the simple heat transfer equation:

$$q = \text{GPM} (500) (T_r - T_s) \text{ BTU/hr}$$

For optimal coil performance, both the supply water temperature (T_s) and the return water temperature (T_r) should be constant. Therefore, variations in load must be managed with one form or another of flow control. On the other hand, chillers should be operated with a constant water flow.

To meet both these design objectives simultaneously with multiple coils, and perhaps, multiple chillers, requires the use of throttling valves or bypass loops on the coils, and bypass loops on the chillers. Small pumps may be added to the chillers, and a circulating pump can then supply chilled water to the loads.

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Mechanical Design Engineer

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ASHRAE Biography of Charles Munroe

based on an interview with Dwight Scott: 11 February 2010

Charles L. Munroe was born in Charlottetown, PEI and graduated with a Mechanical Engineering degree from the University of New Brunswick in 1963. After graduation, Charlie returned to Charlottetown to practice with a local architect, G.K. Pickard, providing engineering services for a number of church, school, commercial and housing projects. In 1970, he was hired by Transport Canada, remaining with that department through its integration in 1987 with Public Works/Government Services Canada, serving out of their Moncton Regional Office.

Brief highlights of his federal government career include:

- 1970-1974 – regional mechanical maintenance engineer responsible for all federal airports in Atlantic Canada.
- 1974-1987 – transferred to the Construction Branch of Transport Canada, still primarily responsible for airports – maintenance garages, terminal buildings, control towers, fuel services, etc.
- 1987-1998 – following integration with DPW, he was involved with a greater variety of works including customs and immigration buildings, national parks and heritage facilities.

Mr. Munroe was involved with many interesting projects, including:

- early work with energy analysis computer programs – he had several summer students over the years, including Gilles Roy, currently Vice-Dean of Engineering at the Université de Moncton, and Mike Gillis, President, Maricor Group.
- solar energy systems including the Charlottetown airport maintenance garage, the Mirabel airport and the Moncton operations building.
- decentralized many airport central heating plants to improve overall efficiencies and eliminate lengthy deteriorating steam and hot water distribution lines.
- primary designer for the Moncton Air Traffic Control Centre.
- trouble-shooting consultant for problems at Edmonton Air Traffic Control Centre.

Although he retired from the federal government in 1998, he continues to do some consulting. For other interests, Charlie has rebuilt a cottage at nearby Pointe-du-Chêne, and enjoys his children and grandchildren in Toronto and Moncton.

Musically, Charlie plays trumpet, cornet and flugelhorn and has been playing with various bands since 1963. Since 1990, he has led The Dixieland Ramblers in Moncton (aka The Spuds of Dixieland in Woodstock and PEI). In fact, since retirement, he frequently sits in with a traditional jazz group in Toronto. A special highlight a few years ago, was to join in with that group being featured on a Caribbean cruise ship which sailed from New Orleans. Charlie also plays at his church most Sundays.

An ASHRAE member since 1970, Charlie Munroe has been a mentor during his career to many engineers, technologists, and musicians.

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ASHRAE Distinguished Lecturer to speak at MEET 2010

E. Mitchell Swann, P.E., LEED AP, of **MDC Systems** in Paoli, Pennsylvania, will deliver two seminars during **MEET 2010** at the Moncton Coliseum on May 5th and 6th. These **ASHRAE Distinguished Lecturer Seminars** are sponsored by the NB/PEI Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE). Details follow:

Design Build – Executing the Project *(based on the ASHRAE Design Build Survival Guide)* **1:30 pm – Wednesday, May 5: Seminar Room A**

The growing popularity of design-build provides businesses with a unique opportunity to re-position their firms in a changing marketplace. With these opportunities come unique challenges. For many firms, the D/B role is a new one which results in changes in their ‘custom and practice’ and requires a shift in focus in order to execute projects smoothly. This segment will address some of the ideas, issues and concerns that arise in the D/B execution model that differ from traditional design or construction and differ for the owner as well. Scope, quality, cost and schedule control are key items which will be addressed in the program. The value of ‘selling’ the service is only maintained if there is value in the delivery as well.

Design Build for Green Buildings – Integrated Delivery of an Integrated Idea **10:00 am -- Thursday, May 6: Seminar Room A**

Green design and construction is leading the charge of new design approaches in almost every section of the building industry. The successful execution of a green building project, or more specifically a LEED certified project, entails a more integrated approach throughout both the design and construction processes.

A key component of green design is the merging of the architectural and engineering design effort to yield a more holistic design. The better the team coordination, the greater the opportunities to deliver a high-performance building. Another movement in the industry is in project delivery. Design\Build and partnering have become much more commonplace project execution techniques even in public sector projects. Design\build seeks to gain time and cost efficiencies by merging the lines between design and construction. Given that both philosophies – green buildings and design\build – have the integration of services at their core, it is only natural that the two would also merge in the delivery of projects. This seminar will highlight some of the key ideas, elements and issues that are inherent in both approaches and where and how they interface on a project.

Visit the ASHRAE Booth (#107) at MEET 2010

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May 5 & 6, 2010

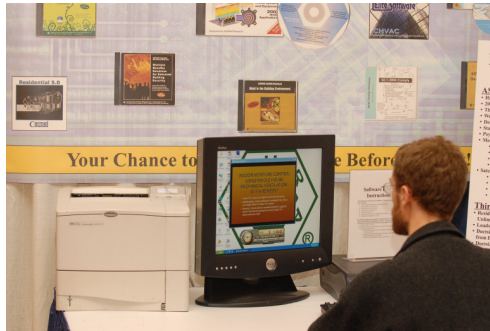
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MEET 2010 Show

June 19, 2010

History Night / Past Presidents' Night

Lobster Party



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