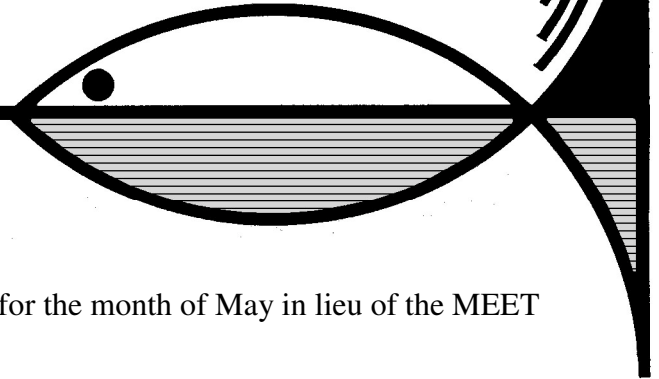


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NB PEI CHAPTER



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There will be no Chapter meeting for the month of May in lieu of the MEET Show at the Moncton Coliseum.

The MEET Show will feature two presentations by *ASHRAE Distinguished Lecturer* – M. Dennis Knight PE, LEED AP, CCS, CXA Principal, Whole Building Systems, LLC Charleston, SC



Integrated Building Design

10:00 am – Wednesday, May 7th – Meeting Room “A”

The ASHRAE NB/PEI scholarship for a student from NBCC-Fredericton will be presented to **Colin Murphy**.

Before the seminar, everyone is invited to a coffee break in Legends Restaurant, sponsored by the New Brunswick Community College.

Developing an Integrated Personal Management System to Help Get Things Done

2:20 pm – Thursday, May 8th – Meeting Room “A”

A second ASHRAE NB/PEI scholarship will be presented to **Nick Hooper** from UNBSJ.

There will be a *show special* available in the amount of a \$50 rebate on ASHRAE membership dues for any new member who signs up for an ASHRAE membership during the show. Please encourage your colleagues who are non-members to consider joining at the show.

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Speaker Biography:

M. Dennis Knight has 39 years of experience providing engineering, design and construction related services within the building industry.

An ASHRAE member since 1979, Mr. Knight served as the Chair of Technical Committee (TC) 7.1 "Integrated Building Design" and serves as Vice-chair of ASHRAE's Multidisciplinary Task Group for Building Information Management (BIM).

Mr. Knight utilizes his extensive experience to assist design professionals and project managers in the preparation of construction documents and contracts, prepares LEED Documentation, and prepares design and construction cost estimates.

Before starting Whole Building Systems, LLC in 2010, Dennis was an owner and principal at Liollo Architecture for 6 years and an owner and managing member of an engineering and construction company for 23 years.

He strives to facilitate the integration of each element and discipline required in a project, with consideration for the life-cycle costs and benefits related to those elements, so that all the pieces and parts of a design work together in concert with each other and their surroundings.

Summary of April 2014 Meeting:

April meeting was a presentation by T. David Underwood, P.Eng, ASHRAE on Tips, Tricks & Techniques of Commissioning.

The presentation highlighted:

How to approach commissioning?

- Tips, Tricks and Techniques.

What is commissioning?

ASHRAE definition:

- A quality-focused process for enhancing the delivery of a project.
- Verification & documentation that all systems and assemblies are planned, designed and installed, tested and operated and maintained according to the Owner's Project Requirements.

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Why commission a project?

- Training the operators, Project constructability and owner project requirements (OPR) are met.

What is the outcome of commissioning?

- Commissioning ties together the constructor, designer, owner and building staff.

Who is the appropriate commissioning authority?

- This depends on the project size. The project may require certified commissioning process manager (CPMP).

What are essential documents for getting started?

- To get started on the commissioning process, you will need the owner's project requirements (OPR), basis of design (BOD), issues log and commissioning process report and system manual.

What is the value for owners?

- Detailed operation and maintenance information, reduction of call back/warranty problems, etc.

What should an owner do?

- Use commissioning authority expertise to assist in commissioning.

What causes OPR details to be adjusted?

- OPR is a living document to be adjusted by Owner during the life of a project.

What does CxA bring to the owner for developing OPR?

- Knowledge regarding systems development, Extensive construction experience and Information on skill level required by operations staff.

What affects OPR details?

- Project schedule, training, project requirements, codes, and standards.

How does the owner get started on a commissioning plan?

- Prior to design, develop the commissioning plans and identify what systems are to be commissioned.

What is the documented in the commissioning plan?

- Roles and responsibilities of the CxA, commission process and schedule, project design, verification procedures and addressing OPR deviations.

What is the basis of design (BOD) document?

- Owner's approval of design.

What are the critical elements of the BOD?

- Logs all design change affecting the OPR, provide detail review as the design evolves, define the BOD submittals.

Who verifies that BOD meets OPR?

- CxA authority and owner.

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What does CxA include in submittal review?

- Date of review, Specification reference, Contract drawing reference, Summary of equipment/systems not in compliance with OPR and Compliance with the OPR

What does the CxA do during Construction?

- Participates with project manager or general contractor in developing job scheduling.

What does CxA observe & test?

- Job specific for system and assemblies and long term data collected.

How are test protocols reported?

- Summary report to the owner.

How are issues & resolutions documents prepared?

- CxA and Cx team develop a project specific form, Issues and unresolved issues are noted and Owner reviews and accepts the Issues & Resolution report

What is the value in developing an issues & resolutions report?

- Helps CxA keep track of construction difficulties and reduces call back and warranty issues for contractors, etc.

What is the value of a systems manual?

- This document provides detailed information on how all commissioned systems operate and how to maintain them.

What are objectives of systems manual?

- Provide information and training to the operating staff; assemble all building design in one document.

What is in the systems manual?

- This section explains the different sections that are required in a systems manual.

What is in the section for training operation and maintenance personnel?

- This section explains the training objective for the building staff.

How does one train operation and maintenance personnel?

- Develop a lesson plan, schedule refresher courses, etc.

What occurs post occupancy?

- Conduct seasonal performance activities, assure ongoing training and warranty action.

What occurs at the end of the post occupancy period?

- All CxA documents are submitted to the owner such as OPR, BOD, Issues log, commissioning process report and systems manual.

Who benefits from the commissioning process?

- Owner, designer, constructor, operation and maintenance staff.

What is new in the commissioning process?

- Building Performance Alliance (BPA) and Guideline 0-2013 is now available.



ASHRAE NB/PEI Chapter President Camille Chevarie presenting David Underwood with a token of appreciation following the presentation.

Technical Tour to Cormier Village Sports and Cultural Centre

Date: Tuesday, June 10th, 2014
Agenda: 4:00 pm – Board of Governors meeting
5:00 pm – Tour
6:30 pm – Dinner at the Bel Air Restaurant, Cap Pelé

All spouses and other guests are welcome for the tour and/or the dinner. Please pay for your own dinner, depending on your menu selection.

Description

The centre was officially opened on June 4, 2012. It is the centerpiece of a 12-acre Ecoparc aimed at providing recreational and learning opportunities for residents of Cormier Village, surrounding communities and beyond. The long term aim of the new community centre is to provide a place for community activities while creating the basis for learning how to cope with many environmental issues: energy conservation, water management, the development of practical energy alternatives and the general care and improvement of the local environment.

The 7,000 square-foot building incorporates passive solar design with most windows (double pane low-argon) facing south. The walls of the building are made of insulated concrete with high R-values and a high thermal mass. The floor is a 4-inch (10 cm) floor slab and the ceiling has R-60 insulation. Four ground-source heat pumps and evacuated tube solar collectors use a 100-gallon hot tank and an auxiliary tank. Floors are heated with hydronic radiant floor slab heating and cooling divided into 7 zones. Eight 1.5-ton wall-mounted fan-coil units are used for heating and cooling. The solar heated air is regulated by a fan motor and thermostat using electricity from a photo-voltaic panel. The building uses energy efficient fluorescent lighting and dimmable LED pot lights. An energy monitoring and management system is used to determine what energy source would be most effective at any given time.

Directions from Moncton Coliseum to Cormier Village and then to Bel Air Restaurant

1. Take Rte 15 East.
2. Take Exit 43 onto Upper Aboujagane Road (Rte 933S).
3. Turn left onto Rte 945E. **Destination is at 645 Rte 645** (52.2 km; 40 minutes from Coliseum).
4. **To continue to the Bel Air:** Head east on NB-945 E toward Cormier Village Rd
5. Turn left onto Chemin Saint André
6. Turn right onto Acadie Rd/NB-133 E. **Restaurant is at 2676 Acadie Rd.** (10.8 km; 14 min)

Directions from Moncton Coliseum directly to Bel Air Restaurant

1. Take Rte 15 East
2. Turn left onto Rte 133W

Restaurant is at 2676 Acadie Rd. (56.9 km; 40 min from Coliseum)



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NB/PEI ASHRAE Chapter Meeting Schedule 2013/2014

June 10, 2014

Topic: Tour of Ecoparc Community Centre – Cormier Village, NB

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Chapter President Camille Chevarie presenting the winner of the Emile R. Leblanc Award to Shelby Gallant of NBCC - Moncton

Gary Hoadley
Senior Mechanical Engineer



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