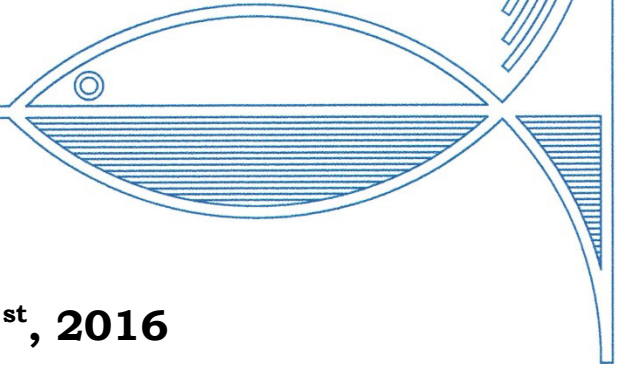




# THE HERRING CHOKER

## ASHRAE

### NB PEI CHAPTER



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**President Elect:**

Sharlene Innes (506) 853-1444

**Vice-President:**

Mike Boudreau (506) 384-3425

**Treasurer:**

Sharlene Innes (506) 853-1444

**Acting Secretary:**

Shelby Gallant (506) 721-9826

**Acting Membership Chair:**

Ken Martin (506) 857-8880

**Research Promotion Chair:**

Mike Boudreau (506) 384-3425

**Student Activities Chair:**

John Willden (506) 856-2215

**Historian:**

Kevin Clannon (506) 382-8625

**CTTC Chair (Programs):**

Robert Hoadley (506) 459-3940

**Newsletter Editor:**

Mark McGinnis (506) 854-2496

**Webmaster:**

Jennifer Chapman (506) 857-8788

**YEA Coordinator:**

Daniel El-Khoury (506) 389-6904

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**Refrigeration**

Frédéric Desjardins (506) 858-5688

**Board of Governors:**

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David Samuel, Yves Savoie,  
Camille Chevarie, Luc Dugas,  
Matthew Peachman, Ryan Gosson,  
Devin Harinarine, Terry Thibodeau

#### **June 2016 Issue**

## **June Social Tuesday June 21<sup>st</sup>, 2016**

**Location: Five Bridges Bar & Grill**  
**121 Pine Glen Rd, Riverview, NB E1B 1V5**

### **Executive Meeting Notice Next Meeting Tuesday June 21<sup>st</sup>, 2016**

All members of the Board of Governors, Committee Chairpersons and the Executive are reminded that the executive meeting begins at 4:30 PM at the Five Bridges Bar & Grill.

### **June 21<sup>st</sup> Meeting Agenda**

**4:30 pm** – Board of Governors Meeting

**5:30 pm** – Social Hour

**6:30 pm** – Supper - We will have a limited menu for you to select from, and then have our plated meals served to us. Dessert will be included, as well as tea and coffee.

**Price for Members - \$25**

**Price for Non-Members - \$35**



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## Dwight George Scott, 1941-2016

Dwight George Scott, age 74, of Riverview, passed away on Tuesday, May 24, 2016, at the Dr. George-L.-Dumont University Hospital Centre.

Born on September 12, 1941, in Shawinigan, Quebec, he was the son of the late George Fraser Scott and Grace Mary (d'Albenas) Scott. Dwight's Interest in Engineering led to a teaching career at the University of New Brunswick from 1964-2001, which, at various times, also included being Director of Undergraduate Studies Within the Faculty of Engineering, and Dean of Residence.



Dwight volunteered for a number of organizations, including Big Brothers/Big Sisters, Canadian Automobile Sports Club, the Canadian Mental Health Association and Forest Dale Nursing Home. Especially since his retirement, Dwight enjoyed being able to expand his activities with ASHRAE NP-PEI Chapter. He enjoyed his music and volunteered at the Riverview Arts Centre as well as attending various musical concerts and festivals. But Most of all, he enjoyed his family and looked forward to the reunions which usually happened every couple of years.

Dwight will be sadly missed by his wife, Val Chongva; his two sons, David (Heather) of Fredericton, and Darrell of Calgary, Alberta; his two precious grandchildren, Tyler and Rachel; sister, Carol Scott of Ottawa, Ontario; brother Peter (Barb) of Windsor, Ontario; plus nieces, nephews, great nices and nephews, aunts uncles and cousins. He will also be missed by his special little brother, Bill Adams, as well as by Val's family.

Dwight will be sadly missed by the ASHRAE NB/PEI Chapter. He held several Chair Positions including President (twice), Membership, CTTC, Student Activities, Newsletter Editor, and Historian. He was a tireless Organizer and devoted a great deal of his time to the Chapter and Region 2.

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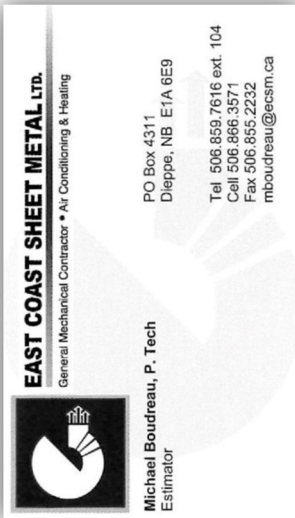
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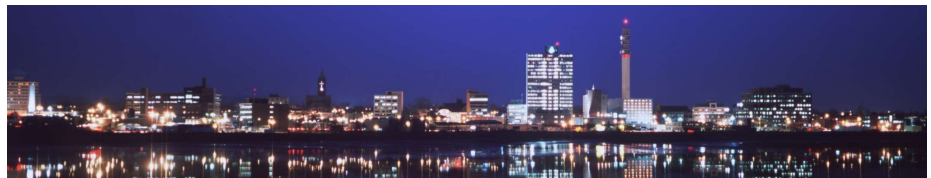
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Cell: (506) 874-6042  
Facsimile: (506) 859-8393  
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## NB/PEI Chapter Hosting the Region II Chapters Regional Conference (CRC) 2016

From August 26th to the 28th, 2016, the NB/PEI Chapter will be hosting the Region II CRC at the Delta Beausejour in Downtown Moncton. For those of you who are not aware of what this conference involves, it is our annual conference where representatives from all nine Chapters within Region II get together to discuss what they have accomplished, and what their plans are for the upcoming year. Meetings are also held where concerns are brought forth and motions are generated to present at the annual ASHRAE Society meetings for voting. Nomination meetings are also held where all positions within ASHRAE Society (including ASHRAE President) are nominated and also presented at the annual ASHRAE Society meetings.



City of Moncton Promotional photo (City of Moncton Image Bank)

Another function of the CRC is to hold Workshops for all incoming Chapter Chairs, including Chapter Operations, Chapter Technology Transfer (CTTC), Membership Promotion (MP), Research Promotion (RP), Young Engineers of ASHRAE (YEA), History, Student Activities (SA), and Grassroot Government Advocacy (GGAC). With our Chapter hosting this event, it provides a unique opportunity for our Members who are interested in certain Chapter Chair positions, to sit in on these Workshops and learn about these positions. If you are interested in attending a Workshop, as well as some of the social events, please advise our YEA Chair Daniel El-Khoury at [delkhour@gmail.com](mailto:delkhour@gmail.com). We look forward to seeing new faces at our conference this summer.



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Mechanical Engineer  
mpeachman@cbcl.ca • 506-631-8937 • C: 506-631-8933

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chantal.daigle-verrier@exp.com  
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Moncton, NB E1E 1E5  
CANADA

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**FRÉDÉRIC R. J. DESJARDINS,**  
P. Eng., LEED® AP  
Department Manager  
Mechanical & Service

71 Loftus Street, Upper Level, Moncton, New Brunswick E1E 2N1  
Tel: (506) 858-5351 Fax: (506) 388-2286 Mobile: (506) 863-9028  
Email: rdesjardins@blackandmcdonald.com www.blackandmcdonald.com

## MEET Show Distinguished Lecturer Ronald E. Jarnagin, Principal Owner RLK Technical Consultants, LLC



### May 18<sup>th</sup>, ASHRAE's Headquarters Renovation "What Happens When the Leaders Try to Do it Right"

ASHRAE recently dedicated a complete renovation of its headquarters building in Atlanta. The renovations targeted achieving LEED™ NC Gold as well as LEED™ EB Gold levels of performance. The renovation project also sought to create a sustainable building that demonstrated various HVAC technologies and also served as a Living Laboratory for the use of its members. The presentation focused on the design and construction process, the systems installed in the building and preliminary building performance results. They reviewed what worked and what were some of the major surprises that occurred.

### May 19<sup>th</sup>, Advanced Energy Design Guides "Going Beyond Minimum Standards"

The Advanced Energy Design Guide (AEDG) series of documents is one of the most popular in ASHRAE's history with well over 500,000 copies in circulation. Focused on providing clear guidance for achieving 30% and 50% energy savings in smaller commercial buildings, the AEDGs meet the need for a large number of projects where project budgets and design professionals might be in short supply. The presenter chaired the initial AEDG for small offices as well as two additional guides and offered perspective on the partnership that contributed to the guides, the intent of the guides and how practitioners can apply the guides.

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**Daniel El-Khoury, P.Eng./Ing.**  
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T: (506) 857-2777  
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F: (506) 857-2753  
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## Kevin's Historical Tidbits

**May 1985**

The NB PEI Chapter Hosted an Energy Seminar at NBCC Moncton consisting of a morning and afternoon speakers.

The morning speaker Mr. Lloyd Algie of Associated Energy Technologies did a presentation on "Sizing for Thermal Storage".

The afternoon speaker Mr. R.A. LaRiviere, President of ESD Industries Inc. spoke on "Heat Recovery Systems on Refrigeration".

Gary Blue was chapter President and Historian.  
(don't get any ideas Sharlene)

The rest of the executive from that year was unknown until now:

President Elect: Robin Craig

Secretary: Steve Tweedie

Treasurer: Dave Cowan

Membership: Gerry Forsythe

Education: Bob Thibeault

RP: Dave Potter

Programs (CTTC): Jean Guy Bernard

Government Affairs: Kirk Bavis

Newsletter: Dave Cowan

"R" in ASHRAE: Alyre Gallant

BOG: Jean Guy Bernard, Grayham McCormick, Gerry Forsythe and Lee MacLeod.

**November 1983**



IES / ASHRAE Showcase (predecessor of the current MEET show) held at the Delta Brunswick Saint John NB promised to be a good one with 60 booths of mechanical and electrical!

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## Service Hot Water Measurements

by Robert Hoadley, P. Eng, and Ben Roundell, EIT

Chapter 50 of the 2015 ASHRAE Handbook – HVAC Applications deals with Service Water Heating. Table 6 of this Chapter provides the following data for service hot water consumption at hotels, of varying size:


Number of Units	Max. Hourly Demand	Max. Daily Demand	Avg. Daily Demand
20 or less	6.0 USGal/unit	35.0 USGal/unit	20.0 USGal/unit
60	5.0 USGal/unit	25.0 USGal/unit	14.0 USGal/unit
100 or more	4.0 USGal/unit	15.0 USGal/unit	10.0 USGal/unit

Chapter members Robert Hoadley & Ben Roundell have been measuring hot water consumption at a large (100+ bed) hotel in Fredericton, NB. The hotel is served by two 750 USGal (2,835 L) storage tanks with common cold water inlet and hot water outlets. A recirculation pump injects domestic hot water return into the common cold water inlet. A magnetic-type water meter was placed upstream of the DHWR inlet to capture the flow of cold water make-up into the tanks.

The flow numbers measured were found to be slightly higher than the rules of thumb published in the HVAC Applications handbook. Daily hot water consumption ranges from 16.0-21.1 USGal/unit. These values were measured with the hotel 70% or more occupied. The days with full occupancy at the hotel measured 20.2 and 21.1 USGal/unit. If we correct our data to reflect gallons per unit occupied at the hotel, the range of measured values becomes 20.2 to 23.3 USGal/occupied bed per day.

Flow was also measured at 5-minute intervals on several mornings to determine the maximum hourly demand. The maximum demand was found to occur between 6:30AM and 7:30AM. The calculated maximum load of 3.1 USGal/hour per unit was lower than the rule of thumb published in HVAC Applications. Table 6 is noted to have been calculated prior to the introduction of low-flow fixtures. We attribute our lower maximum hourly demand to the low flow fixtures installed by the hotel in a previous renovation. Further research by ASHRAE is likely warranted given the prevalence of lower-flow plumbing fixtures in contemporary construction.

Our measurements have been generally consistent with the rules of thumb published in the 2015 ASHRAE Handbook – HVAC Applications. While our maximum hourly demand was lower than the tabulated values, our maximum daily demand was higher. We are recommending ASHRAE update the service hot water data to better account for low flow fixtures. We also believe ASHRAE should modify the values from a per unit basis to an occupancy or per bed basis.



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## ASHRAE Certification

ASHRAE currently offers six certification programs for professionals looking to highlight their skills in specialized areas. The certifications offered are:

BEAP – Building Energy Assessment Professional

BEMP – Building Energy Modeling Professional

CPMP – Commissioning Process Management Professional

HFDP – Healthcare Facility Design Professional

HBDP – High-Performance Building Design Professional

OPMP – Operations and Performance Management Professional

Each certification program consists of a proctored exam following a course of self-study. ASHRAE recommends several texts and standards as knowledge bases for each certification exam. It is also expected that a candidate's career history will provide a large part of their knowledge base for the exam. Certified professionals are required to maintain their certification through professional development and retesting.

Members interested in these certifications should visit [ashrae.org/certification](http://ashrae.org/certification) for more information on the certification, the exam process, and the re-certification process. ASHRAE also maintains a database of all certified professionals on the website.

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## 2015-2016 Schedule

**June 21<sup>st</sup>** : Year End Social at Five Bridges

**June 25-29<sup>th</sup>** : 2016 ASHRAE Annual Conference in St Louis, MO

**July 28<sup>th</sup>** : ASHRAE NB/PEI Golf Tournament

**August 26-28<sup>th</sup>** : 2016 ASHRAE Region II CRC Chapter Regional Conference in Moncton, NB (**Volunteers Needed!**)



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## 2016 Golf Tournament

**Registration Deadline: July 14, 2016**  
**(Space is Limited to 80 Golfers)**

### Where:

Moncton Golf and Country Club, Riverview, NB (Golf)  
Elk's Club, 12 Weldon St - Moncton, NB (Dinner)

### When: *Thursday, July 28, 2016 (rain or shine)*

12:30 Shotgun start - Please arrive one hour early  
BBQ Lunch with all proceeds going to Junior Golf -  
Sponsored by A O Smith

### Format: Team Scramble (4 people)

**One person on each team must be an ASHRAE Member!!**

### Cost:

- Members - Green fees, Cart, Steak, Lobster - \$140.00
- Members - Green fees, Cart - \$90.00
- Members - Meal Only - \$70.00
- Non-Members - Green Fees, Cart, Steak, Lobster \$190.00
- Non-Members - Green fees, Cart, - \$115.00
- Non-Members - Meal Only - \$95.00

**Full amounts must be forwarded prior to the event to:**

**ASHRAE NB/PEI**

**PO BOX 1629**

**Moncton, NB, E1C 9X4**

Make cheque payable to: ASHRAE NB/PEI Chapter.

**Please consider this invitation as a request to donate prizes for the tournament.**

**Please advise Mr. Luc Dugas of planned donations.**  
**(506) 857-8880**

**We extend a special invitation to our neighboring Nova Scotia Chapter and to our members and friends from Prince Edward Island.**





## ASHRAE NB/PEI Crested Polo Shirts for Sale

We now have a supply of men's navy blue polo shirts with our ASHRAE chapter logo embroidered on the left chest (see photo). These shirts are 100% polyester with moisture wicking properties and are anti-microbial.

They are available from Dwight Scott for \$20 (cash please) in M, L, XL and 2XL sizes. Sharlene Innes will be coordinating shirt orders for women's shirts.

