



Chapter History

1972 – 1993 Historian/Editor Rod Collins

Chapter History Committee

Rod Collins, Gary Fahie, Brien Storey

Second Edition 1998 Historian/Editor - Bill Goobie

Third Edition 2008 Historian/Editor - John Willden

Fourth Edition 2011 Historian/Editor - Dwight Scott

Fifth Edition 2013 Historian/Editor - David Samuel

Sixth Edition 2017 Historian/Editor - Kevin Clannon

Seventh Edition 2021 Historian/Editor - John Willden

Eighth Edition 2022 Historian/Editor - John Willden

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ASHRAE® NB/PEI Chapter History

A message from Chapter Historian

We are always on the lookout for any historical information and memorabilia about ASHRAE and especially our chapter. Please call John Willden at 506-962-5508 if you have any artefacts (old Herring Chokers, committee notes, photographs, etc.) and we will be very glad to add them to our historical collection.

1972 – 1973 President Kirk Bavis

In September of 1971 a group of interested individuals organized an initial meeting at the Lions Seniors Citizen Center in Moncton. This was to determine the level of interest locally. The meeting was sponsored by the Halifax chapter, thirty people attended.

As observers Mr. Kirk Bavis and Mr. John MacLean attended the 1971 CRC held in Quebec.

The N.B. chapter operated as a branch of the Halifax chapter during the (1971-1972) year.

The first Board of Governors were: Kirk Bavis, Ken Perry, Gary Clancy, Glen Cowan, Brian Hildreth, and Emille LeBlanc

Chapter night was held at the Brunswick Hotel in Moncton. There were many guests including Mayor Len Jones. Head table guest were Jake Klassen, Mayor Len Jones, Mrs. Jones, Kirk and Judy Bavis.

Special guest toured the city hall the next day and signed the guest book.

The Chapter was presented its charter on 13th, October 1972, by Jake Klassen the region II director.

Mr. Klassen presented a gavel to Kirk Bavis as the Charter President on behalf of the Halifax chapter.

The first monthly meetings were held at the Palace Grill in Moncton.

Membership fees were set at \$10.00

First Annual Golf Tournament held in Chester NS.

Excerpt from ASHRAE Journal, January 1973

New Brunswick Chartered in October

A new ASHRAE Chapter, New Brunswick (Canada), was chartered on October 13 with 80 members and guests as participants and well-wishers. Society members who attended included ASHRAE President Walter F. Spiegel, Executive Director Andrew T. Boggs III, and Director and Regional Chairman of

Region II Jacob Klassen. Also lending their support were President of the Halifax Chapter (sponsoring Chapter) James Scriven, the Major of Moncton (N.B.) Leonard C. Jones and representatives of the Montreal and Ville de Quebec Chapters.





Mr. Klassen gave a history of the events leading up to this Charter night and paid tribute to the individuals involved in the Chapter's organization. He then presented the Charter to New Brunswick Chapter President Kirk Bavis and installed the slate of officers-vice President Robert MacPherson. Secretary Kenneth Perry. Treasurer Brian Hildreth and Governors Glen Cowan. Joseph Slemin and John MacLean. Mr., Boggs presented an ASHRAE banner to the Chapter.

President Spiegel addressed the assembled celebrants regarding the importance of ASHRAE in the HVAC&R industry. He encouraged all members to get personally involved to assure the success of the New Brunswick Chapter, An explanation of ASHRAE research was also given.

1973 – 1974 President Bob MacPherson

Mr. MacPherson has been involved in the controls industry for most of his adult life. He was one of the founding fathers of our chapter and his participation in kicking off the first 20 years is greatly appreciated.

Golf Tournament was held this year in Chester, NS

Point of Interest: Gary Clancy took out a personal loan for the amount of \$400.00 to permit the chapter to start the year. This is a far cry from today's fiscal position. Thanks Gary!!!

1974 - 1975 President Ken Perry

Mr. Perry was born in Torbay, England. He served in the Fleet Air Arm of the Royal Navy prior to moving to Canada. He came to Moncton to work with Moncton Plumbing as a chief estimator. He settled down in Moncton marrying a Moncton girl and raising a family. Mr. Perry has been an active member of ASHRAE since 1954 making him our most senior member. He was also one of our founding members. His past involvement is greatly appreciated and he will continue on in our chapter members' memories. Ken passed away in 1991.

1975 – 1976 President Brian Hildreth

EXECUTIVE:

1st V. President: Richard Gallant

2nd V. President: Robert Wood

Secretary: Terry Steeves

Treasurer: Ken MacDonald

BOARD OF GOVERNORS:

Ken Perry

Derek Palmer

August 1975

This is the first edition of our Chapter newsletter "The Herring Choker". Throughout the upcoming years this newsletter will contain news of chapter activities, society happenings, etc...

September 1975 Golf Tournament

A very successful golf tournament was held this year at the Moncton Golf and Country Club. Congratulations were extended to Wayne Phillips our 1975 Champion.

October 1975 Heat Pumps and Solar Energy

Our last regular meeting featured Professor Vern Ireton who presented an excellent talk on "Heat Pumps and Solar Energy" The response was encouraging with 32 members and guests attending.

Professor Ireton revealed many interesting facts concerning technical problems, evaluation and costs related to solar energy systems for our area. The NB Chapter look forward to having Professor Ireton address our membership once again in the future.

November 1975 National Building Code and HVAC

Meeting to be held at Ho Jo's in Moncton. There was a panel discussion on "The National Building Code and H.V.A.C. Systems".

Panellists included:

Mr. C. Kimball

Mr. R. Griffin

Mr. K. Bavis

December 1975 Christmas Party

Christmas Party on the 18th of this month. A large turnout from Saint John, Fredericton and Halifax was appreciated.

January 1976 Design Approach to Smoke Movement

Meeting Place: Howard Johnson's Motor Lodge (Ho Jo's)

Speaker: Mr. M. Galbraith,

Fire Research Section, National Research Council, Ottawa, ON.

"Design Approach to Smoke Movement in High Buildings"

March 1976 Duct Standardization

Ho Jo's was the location for this month's meeting. We had Mr. Paul Silverthorne, B.Sc., P.Eng. Associate of Engineering Interface Ltd. Toronto, ON speaking on "Duct Standardization".

April 1976 Outlook 2000

Mr. Al Cameron of Carrier Ltd. presented a very interesting talk on "Outlook 2000".

We were also very pleased to have our Regional Director Don Ledgett in attendance. He spoke briefly to the membership about activities within Region II, and stressed the importance of ASHRAE and how the members can become more active.

May 14, 1976 Normandie Wines

Annual meeting was held at Normandie Wines in Scoudouc, NB. Also the election was held for the officers. Everyone enjoyed the plant tour & wine and cheese that followed.

1976 – 1977 President Richard Gallant

Mr. Gallant received his Engineering degree in 1966 from the Nova Scotia Technical College. He moved to Toronto immediately afterwards where he pursued his career as a design engineer. In 1970 he returned to the Maritimes. In 1976 Mr. Gallant became President of Peerless Consulting and remained so until 1987. Mr. Gallant now resides in Cambridge, ON. where he is actively participating in horse racing with his brother on a full time basis.

1977 – 1978 President Terry Steeves**EXECUTIVE:**

Vice President: Gary Hoadley
Secretary: Derrick Palmer
Treasurer: Mike Mann
Past President Richard Gallant

BOARD OF GOVERNORS:

Dave Potter
Gary Clancy
Rick Brown
Richard Gallant

This year's meetings were held at the Ho Jo's Motel. The annual golf tournament was held Sept 7, 1977 at the Moncton Golf & Country Club. A good turnout complemented by fine weather and excellent course conditions contributed to a very successful event.

The now famous boat race (which had to be run in two heats) was won by the Halifax Chapter. Both judges and observers conceded that the Halifax win was a direct result of the three "Ringers" loaned by the N.B. Chapter to complete their term. (In the future, Emile Leblanc will be banned from assisting the visiting team.)

October 12, 1977 Centrifugal Heat Recovery Machines

Region II Chairman, George Menzies, visited chapter and addressed the meeting.

Guest speaker Mr. Don Allan of Trane Co. discussed "Design and Application of Centrifugal Heat Recovery Machines."

November 15, 1977 Energy Conservation

Education Night Richard Gallant gives seminar on energy conservation to members and students.

December 17, 1977

"CHRISTMAS PARTY" – A very successful sleigh ride was enjoyed by all.

January 10, 1978 Tidal Power

Meeting in Moncton. Guest speaker Mr. Doug Hayward from N.B.P.E.C. Topic "Tidal Power in New Brunswick.

February 14, 1978 Going Metric

Meeting in Moncton. Guest speaker from the Federal government; topic "Going Metric and Its Effects on the Construction Industry".

March 14, 1978 The Energy Audit

Meeting in Fredericton. Guest speaker Mr. Jim Hooke of Energy Mines and Resources. Topic "The Energy Audit".

April 11, 1978 Heat Pipe Heat Exchangers

Meeting in Saint John. Guest speaker Mr. Peter Vogel of Keeprite.

Topic: "Heat Pipe Heat Exchangers"

May 9, 1978 Installation of Officers

Annual meeting/ Ladies Night-Wine and Dinner Party held at the "Cosmo"

Guest speakers Mr. Dale MacDonald and Mr. Val Desjardins.

Topic: "New Brunswick's First Solar Heated Residence"

1978 – 1979 President Terry Steeves**EXECUTIVE:**

President Elect: Gary Hoadley
Vice President: Mike Mann
Secretary: Dave Potter
Treasurer: Bill Watson

BOARD OF GOVERNORS:

Vic Boggis
Gerry Forsythe
Dave Hoskins
Richard Gallant

This year's meetings were held at Ho Jo's Motel in Moncton. The annual golf tournament was held September 14, 1978 at the Moncton Golf Club. Once again a major success with the Moncton team taking the "BOAT RACE".

October 17, 1978 Life Cycle Costing

Meeting in Moncton, Guest speaker Mr. Rob Bycraft from the Dept. of Public Works, Ottawa.

Topic: 'Life Cycle Costing'

November 14, 1978 Education Night

This meeting will present three speakers who will talk to the group and invited students on the three main functions of our industry.

Guest speakers:

Mr. P.G. Cowan - Design

Mr. F. Bearisto - Contracting

Mr. J. Slemin - Supply

December 8, 1978 CHRISTMAS PARTY

A GOOD OLD FASHIONED SLEIGH RIDE! This was once again the theme for the Annual Christmas Party.

January 9, 1979 Computerized Central Control System

This meeting was held at the Ho Jo's Motel (Fredericton) Guest speaker: Mr. J.C.McKenna, Market Manager, Automated Building Systems, Honeywell Limited.

Topic: "Computerized Central Control System" as applied to the H.V.A.C. Industry

February 21, 1979 Moncton Campus/tour

Meeting held at the Moncton Community College

Guest Speaker: Mr. Hugh Fullerton, Vice-Principal

Topic: Technology - Moncton Campus/tour of Mechanical Technology Facilities.

March 13, 1979 Energy Management Seminar

Meeting held at the Ho Jo's Motel, Fredericton. This meeting was a combined Energy Management Seminar and Monthly Meeting.

The topics were:

Enersave for Industry - 'The energy Bus Program'

Energy Conservation and Controls "Energy Conservation Techniques Through Proper Use of Controls"

Humidity and Heating in Homes - "Rethinking accepted practices of Heating, Humidifying, and Insulating Residential Buildings".

Planning for the Future - "Goals of the Maritime Energy Corporation

April 10, 1979 Application and Performance of VAV Systems

Meeting held at the Ho Jo's Motel (Moncton)

Guest Speaker: Mr. Norm Clark, Product Engineer - Trane Co.

Topic: Application and Performance of VAV Systems

May 11, 1979 Election

Annual Monthly Meeting/Companion Night/Election and introduction of 1979-1980 Officers. This meeting was held at the Cave à Pape Restaurant (Moncton)

A great time partying was had by all. The 79/80 Officers were announced and everyone was excited about the 1980 CRC being held in Moncton.

1979 – 1980 President Gary Hoadley

EXECUTIVE:

President-Elect: Mike Mann

Vice-President: Dave Potter

Treasurer: John Hanusiak

Secretary: Dave Hoskin

September 19, 1979 Annual Golf Tournament

Annual Golf Tournament was held at the Moncton Golf & Country Club, another resounding success, boat race and all.

October 15, 1979 Thermal Performance of Ductwork

This meeting was held at the Howard Johnson's Motor Lodge. A CRC committee was formed headed up by Robin Craig

Guest speaker: Mr. Claude Turcotte of John's Manville.

November 5, 1979 MEET Ancestor

Meeting place Ho Jo's (Moncton). This meeting consisted of a product show which became the forerunner of the great "MEET" odyssey. The show was headed up by Dave Potter, the attendance was

exceptional and the regional suppliers expressed their appreciation for the opportunity to represent themselves to such a large targeted group in this fashion.

December 3, 1979 Vibron- C.N. Tower

"CHRISTMAS PARTY"

Meeting place: Ho Jo's (Moncton).

Guest Speaker: Don Allen of Vibron. His topic was "On Keeping the World's Tallest Free-Standing Structure Standing Still - C.N. Tower."

January 21, 1980 Pulse Type Gas Furnaces

Meeting place Ho Jo's (Moncton)

Guest Speaker: Mr. Ralph Reiman of Hydrotherm. He discussed the future of 91-94% pulse type gas furnaces.

February 11, 1980 Infrared Seminar

Meeting place Charlottetown Hotel, PEI. An Infrared seminar was held at Holland College, Royalty Campus. Later on that evening a panel discussion was held. The Guest Speaker was Dr. Kirk Brown, Director of Island Energy Corporation his topic PEI's energy future.

March 3, 1980 Micro-Electronics & Energy

Meeting place Ho Jo's, Moncton.

Guest Speaker: Jack Webster, Manager of Marketing Residential Division Honeywell His topic: "Micro-electronics & Energy - The Impact on Your Home".

April 7, 1980 Future of H.V.A.C

Meeting place Ho Jo's, Moncton.

CRC Committee meeting was held as the conference is just around the corner. Preparation for the 1980 product show was also kicked off.

Guest Speaker: Bill Vale Commercial Consultant Lennox Industries.

His topic was "Manufactures Outlook at the Future of H.V.A.C."

May 23, 1980 CRC Hosting

Moncton Chapter Hosts its first CRC with great pride. This meeting was held in conjunction with the 1980 CRC which was held in Moncton.

In addition to excellent speakers, the society President-Mr. Hugh D. McMillan, Jr. was in attendance along with several other society officers from New York. It was a great opportunity to view ASHRAE from a society level and make new friends. In addition to the above event, two others became clear successes for our chapter.

The first was an evening of entertainment at the famous Cy's Restaurant on Thursday night. The second was the "Lobster Extravaganza" fun seekers were bussed to Shediac "The Lobster Capital of the World" where the best homard known to man was enjoyed by all while being entertained by Don Canning.

This event ultimately put the cap the NB/PEI Chapters reputation of being the "Fun" Chapter.

1980 – 1981 President Gary Hoadley

September 1980 The Annual Golf Tournament.

NB Chapter has again beat out the Halifax Chapter in the boat race event.

October 20, 1980 Energy Conserving Lighting and HVAC

This meeting was held at Ho Jo's, Fredericton in conjunction with the fixture showcase. The latest in energy conserving lighting and H.V.A.C. equipment was displayed. The show was jointly sponsored by the NS Chapter of ASHRAE and the Fiddlehead Section of The Illuminating Engineering Society.

November 18, 1980 Humidification

This meeting was held at Papa Joe's Restaurant

Guest Speaker: Zeev Kopel of National Environmental Products.

Topic: Humidification.

December 9, 1980 Christmas Party - Past Presidents Night

This meeting was held at Papa Joe's Restaurant. Hip of Beef \$14.00. Installation of the 1981 officers and Recognition of past-Presidents.

January 13, 1981 Computer Room A.C. Units

Meeting Place: Papa Joe's Restaurant

Guest speaker. John Bentley of Jo-Ad Industries, Montreal.

Topic: Computer Room A.C. Units

February 10, 1981 Pressurization & Air Elimination

Meeting Place: Papa Joe's Restaurant

Guest Speaker: Mr. Nelson LeClerc of Hamlet & Garneau Inc. Montreal.

Topic: Pressurization & Air Elimination of H.V.A.C. Systems & Energy Retrofit Programs.

March 10, 1981 Thermal Storage and the Future

Meeting place: Papa Joe's Restaurant

- Guest Speaker: Mr. Lloyd Algie, Marketing Manager for Acme Engineering Products Ltd. Toronto

April 14, 1981 Pump Energy Conservation and Flow Balancing

Meeting place: Papa Joe's Restaurant

Guest Speaker: Mr. Gil Carson of ITT

Topic: Pump energy conservation and Flow Balancing Analysis.

ASHRAE Research fund raising campaign is underway-goal "\$1800.00"

May 12, 1981 Maritime Natural Gas Pipeline

Meeting Place: Papa Joe's Restaurant, Moncton.

Guest Speaker: Mr. Barry Ritchey V.P., Operations, Trans Québec, Maritime Pipeline, Montreal, Quebec

1981 – 1982 President Jean-Guy Bernard

July 20, 1981 Energy Management

Energy Management 1981 briefing by R. Gallant.

Show in Oct. in Fredericton.

Honeywell - 1 hour seminar

Trane - 1 hour seminar.

September 17, 1981 ANNUAL GOLF TOURNAMENT

Meeting was held at Moncton Golf & Country Club.

October 19, 1981 Trane Equipment

Energy management by R. Gallant, formed a committee to help to promote the ASHRAE/IES show. Also going for award points for all categories except one. Have been asked by EMR to set up a workshop.

The meeting was turned over to Ray Lloyd who introduced Colin Perkins of Trane who put on a mini lecture on Trane Equipment.

November 10, 1981 Service and Professional Businesses Marketing

Bob MacPherson introduced our guest speaker, Mr. Carl Dredericks, the National Service Sales Manager of Johnson Controls.

Mr. Dredericks gave an interesting presentation and discussion on the service oriented business as opposed to the product oriented business. He also spoke on the marketing of service and professional businesses. The presentation was over at 9:00 p.m. and the speaker was thanked by J.G. Bernard.

December 1981 CHRISTMAS PARTY**January 12, 1982 Energy Mines & Resources**

- Dave Potter read a letter received from Andrew Boggs regarding fees for product demonstrations and exposition.

Introduction of guest speaker Mr. John Hutchinson from Energy Mines & Resources by Kirk Bavis.

February 9, 1982 Earthquakes in New Brunswick

- Kirk Bavis introduced the guest speaker, Merrill Edward a UNB physics professor, who gave a very interesting talk on the subject of earthquakes in New Brunswick.

March 9, 1982 Noise and Vibration Control

Mr. Don Allen of Vibron spoke on the topic of noise and vibration control.

April 13, 1982 Residential Heat Pumps

- Letter read by D. Potter concerning events for upcoming Region II 25th Annual C.R.C. Conference at Halifax, NS

Mr. Don Stevenson, P.Eng. Director of marketing, York Division, Borg-Warner (Canada) Ltd. who spoke on the topic of heat pumps applicable for residential usage.

May 11, 1982 N.B. Energy Secretariat

All nominated officers elected by acclamation, for Board of Governors.

- Report on points awarded to Chapter Committees: Total points to date - 1299 Par 1600

Mr. John Williamson, Deputy Minister, N.B. Energy Secretariat, Province of New Brunswick, who gave an interesting talk on the various functions his department is involved with.

1982 – 1983 President Gerry Forsythe

September 1982 Annual Golf Tournament

November 9, 1982 Ice Thermal Storage

Robin Craig introduced the ten guests present for this evening. Steve Tweedie introduced Jean Claude Charlebois as the guest speaker. Mr. Charlebois, of Baltimore Air Coil Aquavap Division in Montreal, spoke of ice thermal storage. The subject was of great interest to the audience, a fact evident by the good turnout.

December 1, 1982 Scholarship

Len MacDonald, Education Committee Chairman, presented a scholarship to Ken Vessard of the N.B.C.C

Bob MacPherson suggested organizing a history group to be composed of Jean Guy Bernard and Brian Hildreth.

January 11, 1983 Variable Pitch Fans

Richard Gallant stated that a product show is planned for October 1983 at the Delta Inn in Saint John as part of the ASHRAE/TES joint venture. He also mentioned that Terry Thompson would be the guest speaker at the March meeting which is to be held jointly with the APENB.

Mr. Vic Afanasieu, National Sales Manager of Woods Fans gave a very good presentation on variable pitch in motion fans.

February 8, 1983 City of Moncton and ASHRAE

In absence of a speaker, Bob MacPherson spoke on the positive aspects of the City of Moncton and the ASHRAE organization.

March 8, 1983 Pt. Lepreau Nuclear Generating Station

Steve Tweedie introduced the guest speaker, Dr. Terry Thompson, who gave a very informative presentation on the operation of the Pt. Lepreau nuclear generating station.

April 15, 1983 Chateau Gai Wines

The April meeting was held at Chateau Gai Wines in Scoudouc as it was held during an industrial visit.

A tour of the plant followed the general meeting and was conducted by A. Bourque, the manager of the plant. All aspects of the process of fermentation of wines was explained by Mr. Bourque.

Once the tour of the production, laboratory warehouse and offices was complete the members were given a sample of wine in the plant hospitality room.

May 10, 1983 Energy Recovery with Heat Wheels

Terry Steeves moved that we appoint Dave Potter to represent the New Brunswick Chapter of ASHRAE on the committee for the Revitalization of the Moncton Downtown Area.

Steve Tweedie introduced the guest speaker, Jim Potter, Manager of Wing Coil of Canada.

1983 – 1984 President Jean-Guy Bernard

September 22, 1983 Annual Golf Tournament

The first meeting of 83/84 was held following the Annual Golf Tournament at Moncton Golf Club, Riverview, NB.

Prizes were presented to the Golf Tournament winners. Trophies were presented by C & E, Johnson Controls, and Scan Air Balance.

October 11, 1983 Water Source Heat Pumps

Graham MacCormick introduced the guest speaker, Mr. Bud Pirrelo of Budco, who spoke on the subject of water source heat pumps

November 1, 1983 Bylaws

This month's meeting was held in the Manchester Room at the Delta Brunswick in Saint John, NB

The ASHRAE/IES showcase for 1983 will produce an approximate \$2,100 of a prorated \$5,000 for the NB Chapter.

Bylaws were signed, dated and forwarded to Atlanta.

December 13, 1983 Air Leakage and Infiltration

Richard Holt presented "Air Leakage and Infiltration", which was followed by an interesting discussion -

January 10, 1984 Fire Protection In Kitchen Exhaust Systems

Mr. Ross MacLeod was introduced and gave a very interesting talk on Fire Protection in kitchen exhaust systems.

February 14, 1984 New Type Of Ice Making System

Jean-Guy Bernard introduced the guest speaker, Vladimir Goldstein who gave an instructive and interesting presentation on a new type of ice making system which has practical applications in the Atlantic Provinces.

March 13, 1984 EMR Programs

Graham McCormick introduced Allan Miller of EMR who gave an interesting presentation of the various programs available from EMR.

April 10, 1984 Control & Filtration of Welding Fumes

This month's meeting was held at Cy's Restaurant in Moncton. Attendance was low due to a heavy snow storm.

Guest Speaker: Mr. Larson of TORIT Corp. was introduced by Les Reese he spoke on the topic of Control & Filtration of Welding Fumes

May 8, 1984 Nomination Committee

The Annual general meeting was held at Cy's Restaurant in Moncton.

Terry Steeves, of the nomination committee, read the nominations for the 84/85 executives.

1984 – 1985 President Gary Blue

Executive:

President Elect:	Robin Craig
Treasurer:	Dave Cowan
Secretary:	Steve Tweedie
Research:	Dave Potter
Membership:	Gerry Forsythe
Education:	Bob Thibeault
Programs:	Jean-Guy Bernard
Gov't Affairs:	Kirk Bavis
Historian:	Gary Blue
Newsletter:	Dave Cowan
Refrigeration:	Alyre Gallant

Board of Governors:

Jean-Guy Bernard
Graham McCormick
Gerry Forsythe
Lee MacLeod

August 15, 1984 Annual Chapter Golf Tournament

It was resolved that all committees should have a Vice Chairman as well as a Chairman to ensure continuity in the committees from year to year.

Committee Chairman to provide written reports, regardless of brevity or lack of new developments to report, to the president prior to each monthly meeting.

September 20, 1984

Meeting called to order by Gary Blue at the Moncton Golf & Country Club.

No speaker was present since the meeting was held in conjunction with the Annual Chapter Golf Tournament.

Prizes donated by local mechanical suppliers and contractors, were awarded to golfers.

October 9, 1984 Screw Compressors

J.G. Bernard introduced the guest speaker, Mr. John Andrews from Intercool Ltd. of Toronto, Ontario, who gave a presentation on screw compressors.

November 13, 1984 Flow Measurement

Robin Craig announced the guest speaker, Mr. Frank Delucca of Dretech Standard Annubar who spoke on the topic of Flow Measurement.

December 11, 1984 R-2000 Homes

Gary Blue read a letter of thanks from the New Brunswick Community College, Moncton Campus, with regard to the scholarship recently presented by the local chapter to a student at that institution.

Gary Blue introduced the guest speaker, Mr. Ken MacPhee of Atlantic Co-Op Housing, who spoke on the topic of R-2000 Homes.

Santa arrived with small gifts for all the wives in attendance.

January 15, 1985 No Speaker

Matter of the Golf Tournament was discussed and a motion was made by Jean Guy Bernard to retain the golf tournament in September as well as having a regular monthly meeting in September and in June, as well as adding a guest speaker to the agenda for the Annual meeting in May. Motion was seconded by Terry Steeves and passed by a vote of the general membership in attendance.

The guest speaker was unable to attend the meeting due to inclement weather.

February 12, 1985 Pulse Combustion

Gary Blue introduced the guest speaker, Mr. Dominic Leraci of Lennox Industries who spoke on the topic of "Pulse Combustion".

March 12, 1985 Variable Speed Drives

Kirk Bavis introduced the guest speaker, Mr. Steve Fecica of Rumble Equipment who gave a presentation on variable speed drives

May 7, 1985 Successful Thermal Storage Systems

Gary Blue asked for a response for the idea of having a June Golf Tournament. Members were urged to attend the Halifax Golf Tournament.

Gary Blue introduced the guest speaker Mr. Lloyd Algie who spoke on successful Thermal Storage Systems.

June 11, 1985 Chair Reports

Robin Craig presented past president's pin and certificate of appreciation to Gary Blue. He also presented past president pins to Dave Potter (81-82) and Gerry Forsythe (82-83) since no such award was made in those years due to lack of funds.

1985 – 1986 President Robin Craig

Executive:

President Elect: Steve Tweedie
Treasurer: Irwin MacDonald
Secretary: Dave Cowan

Board of Governors:

Frank Akerley
Len LeClair
Graham McCormick
Gary Blue

September 17, 1985 Computer Aided Design

Robin Craig introduced John Hanusiak, NBCC Moncton, who presented the "Computer Aided Design" (CAD) facilities of the NBCC Manufacturing Technology Center

For future reference it was noted that the following individuals have in their possession the following trophies related to the Golf Tournament:

Boat Race - Gary Clancy

Best Out Of Town Golfer - Gerry Forsythe

Low Gross - Malcolm MacLellan

Low Net - Brien Storey

October 8, 1985 Specifications of Valves & Their Acceptance

All members in attendance viewed a message from the Society President via video.

Steve Tweedie introduced guest speaker, Mr. Cullen Delory of Jenkins Canada. He discussed the changes in specifications of valves & their acceptance under MSS/ASME/ASMI and the NB Dept. of Labour.

November 12, 1985 Chairmen's Visit, The Intelligent Building

Robin Craig introduced George Buckler, Region II Chairman, who commented on general activities of ASHRAE Society and also congratulated the NB Chapter on their efforts & accomplishments. He introduced Dalton McIntyre, Program Chairman for Region II, who commented on general activities of the Education Committee & congratulated Peter Biggar & Reno Levesque on their recent appointments. George Buckler then introduced Gary Brown, Region II Program Chairman, who welcomed input from the Chapters regarding interests in guest speaker prospects.

Dave Cowan introduced the guest speaker, Bill Braun, Program Manager, Honeywell Ltd, who presented an interesting & objective discussion on Computers in the workplace and The Intelligent Building.

December 1986 CHRISTMAS PARTY

January 15, 1986 Discussion On Refrigeration

It was reported that MEET '86 had sold over 100 booths (past "break-even point). Projected total booth sales are between 130 & 150 booths. More promotional material is being sent out - 30,000 PR mailings will be sent out shortly

Alyre Gallant introduced out guest speaker, Mr. Duncan Harvey, REFAC, who presented a well-rounded discussion on refrigeration.

February 4, 1986 Low Intensity Infra-Red Heating Systems

Gerry Waselynychuck introduced Ross Smith, President of Roberts Gordon, who discussed "Low Intensity Infra-Red Heating Systems"

March 11, 1986 How To Increase After Tax Income

Reno Levesque reported that the Education Committee gave a presentation at NBCC, resulting in seven students paying membership with indications that the whole class may join.

Gary Blue reported that 17 new members have paid so far this year.

Gerry Waselynychuck introduced our guest speaker, Mr. Mike Schofield of Levesque Beaubien, who discussed ways of how to increase after tax income, RRSP's and other investments

April 8, 1986 Downtown Redevelopment

Robin Craig introduced guest speaker, Mr. Bill O'Toole, Resurgo Group, who revealed overall plans for continued downtown redevelopment in Moncton.

May 6, 1986 MEET '86

Robin Craig reported on the success of MEET '86. There were 2,000 visitors and NB Chapter anticipates between \$5000 and \$8000 in revenues. General comments were received by members.

1986 – 1987 President Dave Cowan

Executive:

President Elect:	Irwin MacDonald
Treasurer:	Rino Levesque
Secretary:	Gerry Waselynychuk
Membership:	Gary Blue
Education:	Peter Biggar
Energy:	Brien Storey
Research:	Andrew Lavoie
Programs:	Gary Fahie
Nominating:	Gary Blue

1987 – 1988 President Irwin MacDonald

Executive:

Vice President:	Gerry Waselynychuk
Secretary:	Rino Levesque
Treasurer:	Peter Biggar
Membership:	Gary Blue
TEGA:	Jean-Guy Bernard
Research:	Andrew Lavoie
Energy:	Brien Storey
Programs:	Gary Fahie
Education:	Peter Biggar

Board of Governors:

Bob Smith
Alan Miller
Gary Fahie
Mike Ring
Alyre Gallant
Frank Akerley
Brien Storey

September 3, 1987

Meeting was held at Eastcan Consultants Board room.

September 17, 1987

A.S.H.R.A.E Annual Golf Tournament will be at the Moncton Golf & Country Club in Riverview, NB

Events: Boat Race, Bottle Draw, Putting Contest (19th hole) and Prizes for Best Golfer, Low Gross, Low Net, etc...

October 14, 1987 Third Party Financing of Energy Retrofit Projects

This month's meeting was held at Cy's Seafood Restaurant, Moncton.

Guest Speaker: Mr. Kirk A. Bavis, President of Enerplan Consultants Ltd

Topic: "Third Party Financing of Energy Retrofit Projects"

November 10, 1987 Sound and Vibration Control

Meeting was at CY's Restaurant, Moncton

Guest Speakers: Dr. Don Allen Ph. D., P. Eng., President of Vibron Ltd. will be talking on various aspects of sound and vibration control and trouble shooting.

Special Guest: Mr. George Buckler, Director & Regional Chairman for Region II

December 1987 Past President Roast

HO HO HO...TIS THE SEASON FOR A CHRISTMAS PARTY.

Place: Sneakers.

Main Event: Past President Roast

January 12, 1988 Odyssey 86, South America to Alaska

Meeting at Cy's Restaurant, Moncton

Guest Speaker: Garry Sowerby,

Topic: Odyssey 86, South America to Alaska.

February 9, 1988 Underground Storage Tanks

Meeting at Cy's Seafood Restaurant, Moncton.

The guest speaker Dr. James Shatner gave us an interesting talk on underground storage tanks.

March 8, 1988 Underground Fuel Storage Tanks

Meeting held at Cy's Seafood Restaurant, Moncton.

Guest Speaker: Mr. James Shatner Provincial Government Petroleum Management Section.

Topic: New Regulations with Regards to Underground Fuel Storage Tanks.

April 12, 1988 Custom Built HVAC System

The meeting for this month was held at Cy's Seafood Restaurant in Moncton.

Guest Speaker: Jim Moer

Topic: Custom Built HVAC System

May 10, 1988 Election and Installation of Officers

Meeting place was at Cy's Restaurant

This month's Guest Speakers slot was used for election and installation of officers.

1988 – 1989 President Gerry Waselynychuck

Executive:

President Elect:	Rino Levesque
Secretary:	Peter Biggar
Treasurer:	Gary Fahie
Past President:	Irwin MacDonald
Membership:	Gary Blue
Historian:	Gary Blue
Programs:	Gary Hoadley
TEGA:	Alan Miller
Newsletter:	Jean-Guy Bernard
Refrigeration:	Alyre Gallant
Reception:	Emile LeBlanc
Education:	Graham Fawcett
Energy:	Irwin MacDonald
CRC 89:	Robin Craig

BOARD OF GOVERNORS:

Bob Smith
Prank Akerley
Alan Miller
Alyre Gallant
Brien Storey
Derrick Palmer
Irwin MacDonald

September 15, 1988 ASHRAE Golf Tournament

.Meeting place Cy's Restaurant in Moncton, NB.

October 11, 1989 Duct Borne Noises

Cy's Restaurant, Moncton. The guest speaker was Dr. Don Allen, President of Vibron. He spoke on Engineering Solutions to Duct Borne Noises.

Winners of the Golf Tournament were:

Low Gross: Gary Clancy

Low Net: Rino Levesque

Putting Contest: Don Johnson

Boat Race (NB again): Bob Smith, Gerry Waselynychuck, Rod Collins, and Emile LeBlanc

November 1988 Investment Opportunities

The meeting place for this month was held at Cy's Seafood Restaurant in Moncton. The guest speaker was Mike Schofield, Manager of Levesque Beaubien Inc. in Moncton, NB. His topic was about Investment Opportunities.

December 19, 1988 CHRISTMAS PARTY

This year it was held at the Riverboat Restaurant, Magnetic Hill, Moncton

January 11, 1989 Trends in Laboratory HVAC Systems

Cy's Seafood Restaurant was the meeting place this month. Our guest speaker was Stephen Campbell speaking on the proposed Moncton Arts Center. In addition, we will feature a video on "Trends in Laboratory HVAC Systems" which will include:

Space Pressurization of Laboratories Air Flow Control.

A User's Perspective of Laboratory HVAC Systems.

The Performance Characteristics of a Working Facility.

February, 1989 Energy Efficient Crustacean Cooker

Meeting place was at Cy's Restaurant in Moncton. The guest speaker was Jean-Guy Bernard from the Moncton office of Energy Mines and Resources Canada. He spoke on The Energy Efficient Crustacean (Lobster, Crab) Cooker.

March 21, 1989 CFC's and New Refrigerants

This month's meeting was held at Cy's Restaurant in Moncton. The guest speaker was John Smale from Dupont Canada. His topic was CFC's and New Refrigerants.

April 11, 1989 Energy and Technical Affairs

This month's meeting was at Cy's Seafood Restaurant in Moncton, NB.

Norman Johnson gave a talk on the overall regional activities.

Jean-Guy Lahie (Regional Vice-chairman) spoke on energy and technical affairs.

May 9, 1989 Election and Installation of Officers

The meeting place was at Cy's Restaurant in Moncton.

This month's guest speaker slot was used for the election and installation of officers.

Peter Boyd-Brown of the NS Chapter has challenged the "NB Wimps" to participate in their NS ASHRAE Golf Tournament to prove superiority over the boat race.

1989 – 1990 President Rino Levesque

Executive:

President Elect: Gary Fahie
 Treasurer: Brien Storey
 Secretary: Gary Fahie
 Vice President:
 Newsletter Editor: Brien Storey
 Historian: Gary Blue
 Membership: Gary Blue
 Programs: Gary Hoadley
 TEGA: Irwin MacDonald
 Student Activities: Brien Storey
 Refrigeration: Alyre Gallant
 Resource: Gerry Waselynychuk
 MEET Chairman: Gary Fahie
 Education: Graham Fawcett
 Reception: Emile Leblanc

Board of Governors

Alyre Gallant
 Gerry Waselynychuk
 Derrick Palmer
 Rod Collins
 Andy Cowan

Bill Goobie

September 1989 ANNUAL GOLF TOURNAMENT

October 10, 1989 Peticodiac River System

This month the meeting was held at Judson's Restaurant in Moncton.

The guest speaker was Gary Griffen of the New Brunswick Wildlife Federation. He spoke on the Socio-Economic Impact of a Restored

Peticodiac River System in the Moncton Area.

November 14, 1989 Research Center for Energy, U de M

Meeting place this month was at Judson's Restaurant in Moncton.

Our General Meeting will consist of a tour of the Research Center for Energy Conversion at the University of Moncton. The tour will be conducted by Dr. Samuel Sami.

November 25, 1989 CHRISTMAS PARTY

Riverboat Restaurant, Magnetic Hill, Moncton, NB

January 9, 1990 Integrated Comfort Systems

Meeting place was at Judson's Restaurant in Moncton.

The guest speaker was Bob Clements of the Trane Company of Canada. He gave a presentation on Integrated Comfort Systems for the Modern Building.

February 13, 1990 Industrial Ventilation

Judson's Restaurant was the location for this month's meeting.

Our guest speaker was Keith Murfin of Flakt Ross Inc. He will be giving a presentation on Industrial Ventilation.

March 13, 1990 Insulation Types

Judson's Restaurant was the location for this month's meeting.

The guest speaker was A.S. Piggin, P.Eng. of Manson Insulation Inc.

His topics were:

- Insulation Types
- General Thermal & Physical Properties
- Selection and Limitations
- Specifications and Standards

March 24, 1990 ASHRAE CURLING DAY

Moncton Curlers Association Ltd. Moncton, NB

April 10, 1990 ASHRAE Sponsored Trip to China

This month's meeting was held at Judson's Restaurant in Moncton.

The guest speaker was Bob Morris of Madok Manufacturing Ltd, He and his wife will give a slide presentation on their ASHRAE Sponsored Trip to China in 1986.

Bob Morris of Region II spoke on local members becoming more involved in Society and the possibility of nominating local members to Region II positions.

MEET '90 Chairman Gary Fahie asked for volunteers to man the ASHRAE Booth at MEET '90 May 23 & 24/90. Gary advised members that at this point the show appears to be a tremendous success with approximately 230 booths rented.

May 8, 1990 Resource Promotion

This month's meeting was held at Judson's Restaurant in Moncton. Gary Scott, the Vice Chairman of Resource Promotion of Region II attended.

May 26, 1990 LOBSTER PARTY & DANCE

Cocagne Marina. Boat ride and dance with D.J.

1990 – 1991 President Gary Fahie

Executive:

- President Elect: Brien Storey
- Treasurer: Rod Collins
- Secretary: Alyre Gallant
- Vice President: Derek Palmer
- Newsletter Editor:
- Historian: Rod Collins

Membership: Irwin MacDonald
 Programs: Gary Hoadley
 TEGA: Gerry Waselynychuk
 Student Activities
 Refrigeration Alyre Gallant
 Resource Rino Levesque
 Education: Graham Fawcett
 Reception

Board of Governors

Rino Levesque
 Alex Coles
 Don Johnson
 Paul Stockton
 Bill Goobie
 Andy Cowan
 Kevin Wynn
 Graham Fawcett

September 5, 1990 ANNUAL ASHRAE GOLF TOURNAMENT

Maplewood Golf & Country Club

October 9, 1990 GEO Thermal Energy

The meeting this month was held at Judson's Restaurant in Moncton.

Mr. Ralph Ross, Director of all Saints Hospital in Springhill NS was the speaker for this month's meeting. He spoke on GEO Thermal Energy from old coal mines in Springhill.

November 20, 1990 Air Filtration

The meeting was held at Judson's Restaurant.

The speaker Mr. Bill Fraser of Snyder General Corp. gave a slide presentation on Air Filtration.

Mr. John Bisset Regional Vice-Chairman of Education Chapter Program ASHRAE Region II and Mr. Norm Johnson Regional Chairman of Region II were the special guests.

December 1, 1990 CHRISTMAS PARTY

CHRISTMAS PARTY at Judson's Restaurant.

January 8, 1991 The World of Energy and Alternate Fuels

The meeting was at Judson's Restaurant in Moncton.

The speaker for this night was Energy committee chairman Gerry Waselynychuk. He gave a video presentation on The World of Energy and Alternate Fuels.

President Gary Fahie presented past president pin to Rino Levesque.

February 12, 1991 Mini Split Air Conditioners

Meeting was held at Judson's Restaurant.

The guest speaker Mr. Louis St. Laurent, Vice President of Master Air Conditioning spoke on "Mini Split Air Conditioners" -

This month's meeting was also "member get a member" night.

March 12, 1991 Changing Environmental and Plumbing Market

Meeting was held at Judson's Restaurant.

The guest speaker Mr. John Emberson, President of Enpoco Plumbing Products topic was, Innovations, Applications and New Products Available for the Changing Environmental and Plumbing Drainage Market.

April 9, 1991 Moosehead Breweries

Meeting was held at Moosehead Breweries in "The Alpine Room" in

Saint John, NB.

May 1991 Scholarships

NOTE: Scholarship to U de M for \$700.00 and UNB for \$11,000.00 were issued.

June 1, 1991 ASHRAE LOBSTER PARTY

Location: Cocagne Marina.

Activities included Boat Ride, Lobster supper and dance with a D.J.



REGIONAL EXECUTIVE ELECTED — Members of the American Society of Heating, Refrigerating, and Air-Conditioning Engineers Inc. recently elected a new regional executive. From left are: (back): Andrew Cowan, treasurer; Alyre Gallant, vice-president; Derrick Palmer, president elect; and Rod Collins, secretary; (front) Gary Fahie, past president and Brien Storey, president.

**June 1991
Officers for 91-92**

1991 – 1992 President Brien Storey

Executive:

President Elect: Derek Palmer
 Treasurer: Andy Cowan
 Secretary: Rod Collins
 Vice President: Alyre Gallant
 Newsletter Editor: Lee MacLeod
 Historian: Rod Collins
 Membership: Irwin MacDonald
 Programs: Gary Hoadley
 TEGA: Gerry Waselynychuk
 Student Activities

Refrigeration: Alyre Gallant
Resource: Gary Fahie
MEET Chairman: Gary Fahie
Education: Graham Fawcett
Reception: Emile Leblanc

Board of Governors

Gary Fahie
Bruce Slein
Lee MacLeod
Paul Stockton
Claude Gallant
Graham Fawcett

UPCOMING DATES

OCT.13/92 Educational Activities (Student night)

NOV.10/92 Membership Promotion Night

FEB. 9/93 Resource Promotion Night

MAR.9/93 Refrigeration Night

APR. 13/93 Technical, Energy & Gov. Affairs

JUN. 8/93 Installation of Officers/Companion Night

October 8, 1991 Industrial Area Humidification Applications

The meeting was held at Judson's Restaurant.

The guest speaker Andy Olcott of The Herrmidifier Co. Ltd. Spoke on the following topics:

Microprocessor control

Industrial Area Humidification Applications

HVAC duct atomizing systems advantages and Disadvantages

Steam Humidifiers

November 12, 1991 Advanced Microprocessor Control

The meeting this month was held at Judson's Restaurant.

The guest speaker James Marquette, Sales Manager of M & M Refrigeration, Inc. spoke on "Advanced Microprocessor Control for Industrial Refrigeration Systems".

January 14, 1992 Resource Promotion Night:

Judson's Restaurant was the location for this month's meeting. Our January meeting has been designated "Chapter Resource Promotion Night" & is the Kick-Off to our Chapters '91-'92 Campaign.

It is also intended to be a night of recognition and appreciation for all those contributors, both personal and corporate.

The guest speaker Roy Bourque, Operations Manager of Environment Air Ltd. spoke on "Residential and Light Commercial Ventilation Systems Relating to Heat Exchangers over the Past 15 Years.

February 11, 1992 Petroleum Tanks

This month's meeting was held at Judson's Restaurant in Moncton.

The guest speaker Mr. John K. Lockwood from MFM Industries spoke about Petroleum Tanks.

March 10, 1992 Centrifugal Chillers and New Refrigerants

The meeting this month was held at Judson's Restaurant. The speaker Bill Dietrich of Snyder General Corporation spoke about Centrifugal Chillers and New Refrigerants.

April 14, 1992 Fan Powered Terminal Units

Judson's Restaurant was the location for this month's meeting.

Mr. Alf Dyck from E.H. Price spoke on Fan Powered Terminals.

May 12, 1992 New Refrigerants

This month's meeting was held at The House of Chan in Saint John, NB. The guest speaker Mr. Laurence White from CMS spoke on New Refrigerants, Implications on Existing Refrigeration Equipment, and what can be expected in the Future

June 9, 1992 Life in Singapore

This month's meeting was held at Judson's Restaurant in Moncton.

The speaker Mr. Crawford Brewer spoke about life in Singapore.

1992 – 1993 President Brien Storey

Executive:

President Elect: Alyre Gallant
Treasurer: Andy Cowan
Secretary: Paul Stockton
Vice President: Rod Collins
Newsletter Editor: Gary Fahie
Historian: Rod Collins
Membership: Gerry Waselynychuk
Programs: Gary Hoadley
TEGA: Steve Mailman
Student Activities:
Refrigeration: Dennis Sears
Resource: Derek Palmer
Education: Graham Fawcett
Reception: Emile Leblanc

Board of Governors

Gary Fahie
Gerry Waselynychuk
Bill Goobie
Paul Stockton
Claude Gallant
Lee MacLeod

THE EAGLE HAS LANDED!

The 1992 edition of the NE/PEI Chapter ASHRAE Golf Tournament at Pine Needles was very successful. The "best ball" format was chosen by this year's participants, and judging from the response, this format could very well become the "new technology" in NB/PEI ASHRAE golf history.

The fearless foursome of Andy Cowan, Peter Storey, John Touesnard and Roger Leger emerged the victors with a 1-under-par performance highlighted by an eagle on Number 17. Congratulations guys, for a great game!

After so much fresh air and exercise, some 28 members gratefully retired to Vito's for food and libation, and to swap lies about the great shots they almost made!

October 13, 1992 Student Night

The 1992-93 ASHRAE year has begun, members met at Fisherman's Paradise. The October meeting was designated as "Student Night".

November 24, 1992 NB/PEI Fixed Linked Project

Meeting place: Fisherman's Paradise, Dieppe

Guest Speaker: Jim Feltham, Public Works Canada

This night was also Membership Promotion Night. Mr. John Dugan, Membership Promotion Chairman, Region II, joined us from Ontario.

December 11, 1992 CHRISTMAS PARTY

CHRISTMAS PARTY Crystal Palace Hotel, Dieppe

Hip of Beef Seafood Casserole

Cold Meats Salads

Hot Vegetables Dessert \$30 / person

February 9, 1993 NE/PEI ASHRAE Scholarship

This month's meeting was held at Fisherman's Paradise, Dieppe.

We are pleased to congratulate the recipient of the NE/PEI ASHRAE Scholarship Fund for 1992/93:

Alain Guellet

316 Shediak Road

Moncton, NB

March 9, 1993 New Non-CFC Refrigerants

Meeting place: Fisherman's Paradise, Dieppe

Guest Speaker: Dr. Samuel Sami, P. Eng.

His presentation included his research on new non-CFC refrigerants, enhanced heat exchangers and a discussion on prototype heat pumps using new refrigerant blends.

April 13 1993 Technical, Energy & Governmental Affairs

Meeting place: Fisherman's Paradise

Guest Speaker: Lawrence White 3 Degree Refrigeration

Topic: Technical, Energy & Governmental Affairs

Mr. White made a presentation on the new refrigerants for the 90's and associated lubricants.

May 11, 1993 Greystone Energy Systems

Fisherman's Paradise was the location for this month's meeting.

Our program this month is a tour of Greystone Energy Systems' manufacturing facility. Greystone manufactures and supplies electronic components for the HVAC industry, and Bill Robblee and his staff are a Moncton success story!

Our visit included explanation and discussion of the ISO 9000 standards, types of products manufactured and the various production methods and equipment used in the manufacturing process!

June 26, 1993 Chapters 20th Anniversary Party

Annual Meeting / Historian Night / Chapters 20th Anniversary Party.

Surf n' Turf - Dancing - Live Band

40 people participated in the revelry with the majority of the past presidents who were in attendance. Photos were taken and gifts were given to our beloved companions. It was one hell of a night. We are all looking forward to another successful 20 years.

1993 – 1994 President Alyre Gallant

Executive

President Elect:	Rod Collins
Treasurer:	Stephen Tweedie
Secretary:	Bob Thibault
Vice President:	Paul Stockton
Newsletter Editor:	Bob Thibault
Historian:	Rod Collins
Membership:	Gerry Waselynychuk
Programs:	Jean-Guy Hebert
TEGA:	Paul Stockton
Student Activities:	Graham Fawcett
Refrigeration:	Basil Kiley
Resource:	Brien Storey
Education:	Graham Fawcett
Reception:	Emile Leblanc

Board of Governors

Andy Cowan
Basil Kiley
Jean-Guy Hebert

Peter Storey
Claude Gallant

Passing Robert McPherson

Robert McPherson passed away on September 5, 1993. Robert was a past chapter president and devoted many years to the HVAC industry in the Maritimes. He was president of Digicon Technologies Ltd. He was active in minor hockey and many other community groups. His presence is missed.

September 10, 1993 Annual Golf Tournament

Held at Pine Needles Golf Club. Supper at Fat Tuesdays. Winning team of 70 was Bill Oakes, Andy Cowan, Mike Gillis, and Irwin MacDonald. In second place with 71 was Team Honeywell.

September 10, 1993 Region II CRC - Ville de Quebec

The chapter was represented by:

Alyre Gallant	Delegate
Rod Collins	Alternate
Brien Storey	Resource Promotion
Paul Stockton	T.E.G.A.
Stephen Tweedie	Education
Gerry Waselynychuk	Membership
Basil Kiley	Refrigeration
Gary Fahie	Historian

October 12, 1993 Education Night - Bill Stroud, NBCC Saint John

Held at Fisherman's Paradise Dieppe. The guest speaker was Bill Stroud, an instructor with NBCC Saint John.

November 9, 1993 Membership Promotion - Radiant Heating

Held at Fisherman's Paradise Dieppe. The guest speaker was Geoff Adair of Engineered Air in Vancouver. He spoke about radiant heating.

December 6, 1993 Annual Christmas Party

Held at the Leisure World Banquet Room and catered by Super Chef. It was organized by Jackie Fahie and attended by 46 members and spouses.

January 11, 1994 Past Presidents/Historical Night - Sewage Treatment Facility

Held at Fisherman's Paradise Dieppe. There was short presentation by Historian Rod Collins. Norm Johnson, the Region II Membership Chairman discussed membership activities. The technical

presentation was the new Greater Moncton Sewage Treatment Facility by Bruce Buchanan of Touchie Engineering.

February 8, 1994 Resource Promotion - Sick Building Syndrome

Held at Fisherman's Paradise Dieppe. There was a short presentation by Brien Storey on Resource Promotion. Dalton McIntyre, Region II Chairman was in attendance. Tony Chase of AAF/Snyder General Canada spoke on recent developments in air filtration that help combat sick building syndrome.

March 8, 1994 Refrigeration Night - Floating Head for Energy Savings

Held at Fisherman's Paradise Dieppe. Guy Dolbec of The Master Group Ltd gave the technical presentation. Guy spoke about "Floating Head in Refrigeration Systems for Energy Savings."

April 12, 1994 TEGA - Belledune Generating Station

A tour of the Belledune Generating Station was held for at least 10 members. There was a thorough tour of the coal fired generating plant followed by dinner in Bathurst.

May 11, 1994 - MEET and Student Branch Charter

The MEET '94 trade show (Mechanical Electrical Electronic Technology) was held May 11-12 at the Moncton Coliseum. It was co-sponsored by the NB-PEI Chapter of ASHRAE. ASHRAE Region II Chair Mr. T.W. McDonald, from the University of Windsor, attended the chapter meeting. Mr. McDonald presented New Brunswick Community College - Saint John with their ASHRAE Student Branch Chapter.

June 14, 1994 Companions Night, Installation of Officers

1994 – 1995 President Rod Collins

Executive

President Elect: Paul Stockton
Treasurer: John Allison
Secretary: Bob Thibault
Vice President: Stephen Tweedie
Newsletter Editor:
Historian:
Membership:
Programs:
TEGA:
Student Activities:

Refrigeration:

Resource: Alyre Gallant

MEET Chairman:

Education:

Reception:

Board of Governors

Andy Cowan

Bill Goobie

Bruce Slemmin

Peter Storey

Don Johnson

September 1994

October 1994

November 1994

December 1994

January 1995

February 1995

March 1995

April 1995

May 1995

June 1995

1995 – 1996 President Paul Stockton

Executive

President Elect: Stephen Tweedie

Treasurer: Andy Cowan

Secretary: Bill Goobie

Vice President: John Ellison

Newsletter Editor:

Historian: Rod Collins

Membership: Gerry Waselynychuk

Programs: Jean-Guy Bernard

TEGA: Bill Hooper

Student Activities:

Refrigeration: Alyre Gallant

Resource: Rod Collins

MEET Chairman:

Education:

Reception:

WebSite:

Board of Governors

Gary Fahie

Terry Steeves

Brien Storey

September 1995

October 1995

November 1995

December 1995

January 1996

February 1996

March 1996

April 1996

May 1996

June 1996

1996 – 1997 President Stephen Tweedie

Executive

President Elect: Bill Goobie
Treasurer: Andy Cowan
Secretary: Jean Guy Hebert
Vice President: Terry Steeves
Newsletter Editor: Carman Travis
Historian: Dave Cowan, Richard Gallant
Membership: Gerry Waselynychuk
Programs: Jeff Hayward
TEGA: William Hooper
Student Activities: Philip Allison
Refrigeration: Alyre Gallant
Resource: Paul Stockton
MEET Chairman:
Education:
Reception:

Board of Governors

Bill Hooper
Derek Weldon
Paul Stockton
Carman Travis

September 1996

October 1996

November 1996

December 1996

January 1997

February 1997

March 1997

April 1997

May 1997

June 1997

1997 – 1998 President Bill Goobie

Executive

President Elect: Bill Hooper
Treasurer: Derek Weldon
Secretary: Jeff Hayward
Vice President: Andy Cowan
Newsletter Editor: Luc Dugas
Historian: Dave Cowan
Membership: Gerry Waselynychuk
Programs: Carman Travis
TEGA: Bill Hooper
Student Activities: Phil Allison
Refrigeration: Duncan Harvey
Resource: Steve Tweedie
MEET Chairman:
Education:
Reception:
WebSite:

Board of Governors

Grant Bourque
Luc Dugas
Gary LeBlanc
Travis Lutes
Steve Tweedie
Carman Travis

September 9, 1997 Chapter 25th Anniversary Party

Party at Cocagne Marina

October 14, 1997 Energy Night

November 4, 1997 Radiant Floor Heating

Resource promotion night. Topic: Radiant Floor Heating, Speaker: Hydro-Mechanical

December 1997 Christmas Party

Boomerangs Steak House. Guest Santa Claus

January 13, 1998 Specifying EMCS Systems

Past Presidents Night

Topic: ASHRAE Standard for specifying EMCS systems by standard committee member.

February 10, 1998 Advanced Pumping Applications

TEGA Night. Topic: Advanced Pumping Applications

Speaker: ITT Fluid Products Canada

March 10, 1998 Chilled Water Plant Controls

Topic: Chilled Water Plant Controls, Speaker: Trane

April 14, 1998 Absorption Refrigeration

Refrigeration night. Topic: Absorption Refrigeration

Speaker: York International

May 12, 1998 Education Night

Technical tour in Saint John NB.

Host: Student Chapter

June 1998 Installation of Officers

1998 – 1999 President William Hooper

Executive

President Elect:	Jeff Hayward
Treasurer:	Derek Weldon
Secretary:	Luc Dugas
Vice President:	Gerry Waselynychuk
Newsletter Editor:	Luc Dugas
Historian:	Bill Goobie
Membership:	Gerry Waselynychuk

Programs: Carman Travis
TEGA: William Hooper
Student Activities: Philip Allison
Refrigeration:
Resource: Stephen Tweedie
MEET Chairman:
Education:

Board of Governors

Grant Bourque
Gary Leblanc
Travis Lutes
Philip Allison
Carman Travis
Bill Goobie

September 1998 CRC Moncton

October 1998 Energy Night “Electricity Restructuring- Options and Issues” speaker NB Power.

November 1998 RP Night “Steam System Component Application” speaker Maynard Reece

December 1998 Christmas

January 1999 Past Presidents Night “Precision Air Conditioning” speaker Canatal International.

February 1999 TEGA Night “Boiler Level Controls” Speaker ITT Fluids Canada

March 1999 Membership Night “Humidification” Speaker Nortec

April 1999 Refrigeration Night “Future of HCFC’s” Distinguished Lecturer James E Wolfe American Standards Inc.

May 1999 Education Night Technical Tour NBCC SJ & Wirsbo Plant hosted by NBCC SJ Student chapter.

June 1999 Installation of Officers.

1999 – 2000 President Jeff Hayward

Executive

President Elect: Luc Dugas
Treasurer: Derek Weldon
Secretary: Gary Leblanc
Vice President: Bill Goobie
Newsletter Editor: Luc Dugas
Historian: Bill Goobie
Membership: Ken Martin
Programs: Carman Travis
TEGA: Carman Travis
Student Activities: Philip Allison
Refrigeration: Gary LeBlanc
Resource: William Hooper
MEET Chairman:
Education:

Board of Governors

William Hooper
Grant Bourque
Ken Martin
Carman Travis

September 30, 1999 Annual Golf Tournament

Annual Golf Tournament. Maplewood Golf and Country Club. Meal at Elks Club.

October 19, 1999 Hydronic Component Operation

Resource Promotion night. Hydronic System Components and Their Proper Operation. Speaker Phil Searle, ITT Fluid Products Canada.

November 9, 1999 Gas Phase Filtration

Past presidents night. Gas Phase Filtration, speaker: Circulaire

December 1999 Christmas

Christmas. Speaker: Santa Claus

January 11, 2000 TEGA Night

February 8, 2000 TEGA Night “Bayside Power- Combining old & new for clean power generation”

February 26, 2000 Curling Funspiel

March 14, 2000 Membership Night

April 11, 2000 Refrigeration Night

Speaker: ITT Fluid Products Canada.

May 11, 2000 Education Night

Technical tour. Host Saint John Student Chapter.

June 2000 Installation of Officers

Installation of Officers. Social and History Night

2000 – 2001 President Luc Dugas

Executive

President Elect: Derek Weldon
Treasurer: Derek Weldon
Secretary: Gary LeBlanc
Vice President: Jeff Hayward
Newsletter Editor: Luc Dugas
Historian: Bill Goobie
Membership: Ken Martin
Programs: Grant Bourque
TEGA: Carman Travis
Student Activities: Phil Allison
Refrigeration:
Resource: Jeff Hayward
MEET Chairman:
Education:

Board of Governors

Grant Bourque
Jeff Hayward
Bill Goobie
Bill Hooper

2001 – 2002 President Derek Weldon

Executive

President Elect: Grant Bourque
Treasurer: Grant Bourque
Secretary: Mike Gillis
Vice President: Luc Dugas
Newsletter Editor: Corey Hayes
Historian:
Membership: Ken Martin
Programs: Scott Donnelly
TEGA: Carman Travis
Student Activities: Doug Scott
Refrigeration:
Resource: Luc Dugas
MEET Chairman:
Education:
Reception:
WebSite:

Board of Governors

Chuck Edwards
Jeff Hayward
Bill Goobie
William Hooper

September 13, 2001 Golf Tournament

Golf Tournament. Meal at Elk's Club

October 2001 Backflow Prevention

Backflow Prevention. Speaker: Reg Leblanc, City of Moncton

November 2001 Sewage Treatment

Donor recognition night. Tour of Greater Moncton Sewage Treatment Facility.

December 2001

Executive meeting only.

January 2002 Enercan

Refrigeration night. Speaker Michelle Lamangue from Enercan.

February 12, 2002 Energy Policy

TEGA night. Speaker: Don Burnett on energy policy.

March 2, 2002 Curling Funspiel

April 16, 2002 Deregulation

Past presidents night. Speaker Carol Marriot on deregulation.

May 14, 2002 Student Night

Tour and meeting hosted by student chapter in Saint John.

June 2002

Executive meeting only.

Meeting attendance was low this year, possibly due to Holiday Inn Express as a venue. Next year's meetings will be held at Boomerangs.

2002 – 2003 President Grant Bourque

Executive

President Elect:	Luc Dugas
Treasurer:	Chuck Edwards
Secretary:	Mike Gillis
Vice President:	Derek Weldon
Newsletter Editor:	Corey Hayes
Historian:	Camille Chevarie
Membership:	Ken Martin
Programs:	Scott Donnelly
TEGA:	Carman Travis
Student Activities:	Doug Scott
Refrigeration:	
Resource:	Derek Weldon
MEET Chairman:	
Education:	
Reception:	
WebSite:	Bill Hooper

Board of Governors

Camille Chevarie
Doug Briggs
Wally Reardon

September 2002 Golf Tournament

Maplewood Golf and Country Club, Elks Club

October 8, 2002 High Velocity Systems

Resource Promotion night. High Velocity Systems

November 12, 2002 Security Chimney

Membership night. Speaker Selkirk on Security Chimney. On November 1st, 2002, a scholarship was awarded to Jeffery Shaw. Jeffery is a student in Mechanical Technology, Buildings, Environment and Energy Option at NBCC Saint John.

December 10, 2002 Moncton Airport

Speaker: SGE Group hosts tour of the new Moncton International Airport.

January 14, 2003 Infloor Heating

Past president's night. Speaker: Hydromechanical sales on Infloor Heating.

February 11, 2003 BACNet

Speaker: Alerton on BACNet Controls

March 11, 2003 Natural Gas

TEGA night. Natural Gas / Safety Code Services presented by Enbridge Gas.

April 15, 2003 Membership Night

Distinguished speaker.

May 13, 2003 NBCC Saint John

Technical tour hosted by Saint John Student Chapter

June 10, 2003 Pumping Strategies

Installation of officers. Topic: Pumping Strategies presented by ITT Fluid Products.

2003 – 2004 President Luc Dugas

Executive

President Elect: Chuck Edwards
Treasurer: Camille Chevarie
Secretary: Mike Gillis
Vice President: Grant Bourque
Newsletter Editor: Frédéric Desjardins
Historian: Ryan McAleer
Membership: Ken Martin
Programs: Dwight Scott
TEGA: Carman Travis
Student Activities: Doug Scott
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Resource: Wally Reardon
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Reception:
WebSite: Bill Hooper

Board of Governors

Scott Donnelly
Dwayne Acton
Frédéric Desjardins

September 2003 Golf Tournament

Location: Prince Edward Island

October 14, 2003 ASRAE Research Project

Dr Reddy (ASHRAE Research Project) and Jim Moar from Enertrak.

November 18, 2003 Condensing Boilers

Speaker: Daron Thomas from Thomas Industrial Sales presented

December 8, 2003 Pump House Brewery

There was a brewery tour followed by a past presidents night at the Pump House Brewery restaurant.

January 13, 2004 Fiberglas HVAC Insulation

Glenn A. Brower, Vice President of R & D at Knauf Insulation presented *Fiberglas HVAC Insulation – One of the Keys to a "Well Building"*

February 10, 2004 Green Buildings

Richard Williams from HOK Architects presented on green buildings. The discussion reviewed the concepts of sustainable design in the building industry. The discussion reviewed Green Buildings and the LEED program.

March 9, 2004 Tim Horton's 4-Ice Center

Bill Schurman guided a tour of the new Tim Horton's 4-Ice center. We toured the ammonia refrigeration plant and the HVAC system as well as the gas powered snow melting pit.

April 13, 2004 Water Treatment in HVAC

Speaker: Patrick Dollimore from Ashland, Drew Division presented Water Treatment in HVAC systems.

May 11, 2004 Student Chapter Meeting

Meeting held in Saint John.

June 8, 2004 Asbestos Removal

Asbestos Removal presented by Dave Williamson of Donalco Atlantic.

Scholarship

The 2004 Emile R. Leblanc Memorial Scholarship of \$1000 was awarded to Scott Mallais, son of chapter member Bill Mallais.

2004 – 2005 President Charles Edwards

Executive

President Elect: Ken Martin
 Treasurer: Camille Chevarie
 Secretary: Carman Travis
 Vice President: Luc Dugas
 Newsletter Editor: Frédéric Desjardins
 Historian: Grant Bourque
 Membership: Ken Martin
 Programs: Dwight Scott
 TEGA: Ken Martin
 Student Activities: Doug Scott
 Refrigeration:
 Resource: Luc Dugas
 MEET Chairman:
 Education:

Reception:

WebSite: Frédéric Desjardins

Board of Governors

Michael Gillis

Andy Cowan

Damien Monk

Daniel Goulet

Dwayne Acton

September 9, 2004 Annual Golf Tournament

Maplewood Golf and Country Club hosted this event.

October 19, 2004 Wireless Controls

Hosted by Saint John student chapter. Tour of Harbour Station and presentation of ASHRAE Life Member to Ken Elliot.

November 9, 2004 Fan Testing and System Effect

Resource promotion night. Fan Testing and System Effect presented by Loren Cook and Ron Michael.

December 14, 2004 Past Presidents and Donor Recognition

Tour of Majesta personal care plant.

January 11, 2005 YMCA Tour

Membership Night and tour of the new YMCA facilities by Mike Gillis and the facilities manager.

February 8, 2005 Technology Transfer Night

Commissioning and Troubleshooting of Building Systems by Bill MacGowan from Delta Controls

February 26, 2005 Curling Funspiel

Joint social activity with APEGNB Moncton Branch.

March 8, 2005 Refrigeration Night

Tour of UNB Central Heating Plant with new natural gas-fired boiler. The tour was conducted by Gary Hoadley, designer and Mike Bujold UNBs Energy Coordinator. The burner design selected for this boiler allows a large turndown ratio (1:15) and low NOx emissions. The Heating plant has extensive automation and remote access.

There was a presentation by student Ryan Munro of HVAC lab apparatus that was financed by an ASHRAE Research Grant.

April 5, 2005 Membership Night

Mr. Julian de Bullet, Director of Industry Operations for McQuay International made a presentation on current state of air conditioning systems,

May 10, 2005 Resource Promotion Night

Tom Paige, Applications Engineer for Kinetics Noise Control, Inc from their Vibron Products Group, presented *Sound and Vibration Attenuation*.

The presentation traced the steps needed to successfully complete the HVAC and noise control parts of a typical building project.

Scholarship

The 2005 Emile R. Leblanc Memorial Scholarship of \$1000 was awarded to Scott Mallais. He is attending the Université de Moncton and is enrolled in the physics program.

June 14, 2005 District Heating

Brian W. Thomas from Delta Piping Products Canada Inc. presented District Heating and various piping products that are available to

2005 – 2006 President Ken Martin

Executive

President Elect: Frédéric Desjardins
 Treasurer: Dan Boudreau
 Secretary: Daniel Goulet
 Vice President: Charles Edwards
 Newsletter Editor: Dan Boudreau
 Historian: John Willden
 Membership: Grant Bourque
 Programs: Dwight Scott
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 MEET Chairman:
 WebSite: Kevin Clannon

Board of Governors

Michael Gillis
Andy Cowan
Damien Monk
Scott Wade

September 12, 2005 Power Generation Future in New Brunswick

The Honourable Bruce Fitch, MLA and Minister of Energy presented *The future of Power Generation Future in New Brunswick*. He discussed the impact of rising oil prices and the governments new Energy Efficiency Corporation.

October 18, 2005 Integrated HVAC/Refrigeration

Roger Taliotis of Ice Kube Systems presented *Integrated HVAC/Refrigeration Systems in Ice Arenas*. He outlined important contributors to energy efficiency in ice rinks and how an earth energy system can integrate the various systems.

November 8, 2005 Student Night – Wind Power

Hosted by the student branch at NBCC Saint John.

The meeting was attended by two members of the ASHRAE executive, plus two others from Moncton; Scott Mowery, a consultant from Saint John; Doug Scott, an NBCC mechanical technology instructor, and several students. Following the tour and a visit to the NBCC Power Lab, the group was hosted for supper by the Chapter.

The purpose of the tour was to learn about the college's alternate energy labs, including wind and solar energy. A 360 Watt wind powered generator, the Windbugger®, is rated at 12-volt DC and 20A, and is used to charge battery banks. The Windbugger® was designed for live-aboard sailors, and finds applications in boats as well as fixed dwellings in remote locations.

Scholarship ASHRAE Student Member Mathew Skerry

This year's NBCC Saint John Mechanical Engineering Technology Scholarship Award of \$1000 goes to Mr. Mathew Skerry. Mr Skerry is an ASHRAE student member in his second year of the Building Energy Options at NBCC Saint John.

The scholarship is being presented by Doug Scott, a mechanical instructor from NBCC Saint John.

December 13, 2005 Solar Heating



This was Past Presidents night and Donor Recognition Night.

Dr. Peter Allen, P.Eng, President of Thermo Dynamics Ltd. made a comprehensive presentation on the current reserve of fossil fuels. He then presented the manufacturing techniques for flat plate liquid cooled collectors and a photovoltaic powered circulating pump.

January 2006 Fire Stopping in Mechanical Systems

Eric Salvas, P.Eng. of 3M Canada presented *Fire Stopping Products: How and Why They Work*. He outlined what to look for in a fire stopping system and what to avoid.

February 7, 2006 BACnet Control Systems

Raymond Rae, VP Delta Controls Inc., presented an overview of BACNet control systems. He reviewed what was new in building automation control systems, the BACNet Manufacturers Association (BMA), the BACNet Interest Group North America (BIG-NA) and the newly formed BACNet International.

Ray also gave a history and status of the BACNet Testing Laboratories (BTL) and a short tutorial on specifying BACNet.

March 14, 2006 Fantech Plant Tour

Daniel Goulet hosted four NBCC Moncton students, their instructor and other chapter members for a tour of the Fantech plant.

The tour covered their entire process from receiving raw materials to shipping finished products. Of particular interest was the heat exchanger cores that they were manufacturing in a fully automated work cell. This work cell was built with the help of Gautreau's, a local machine shop.

April 1, 2006 Curling Funspiel

Curling Funspiel with the Mechanical Contractor's Association

April 11, 2006 Achieving Design Quality – ASHRAE Distinguished Lecturer

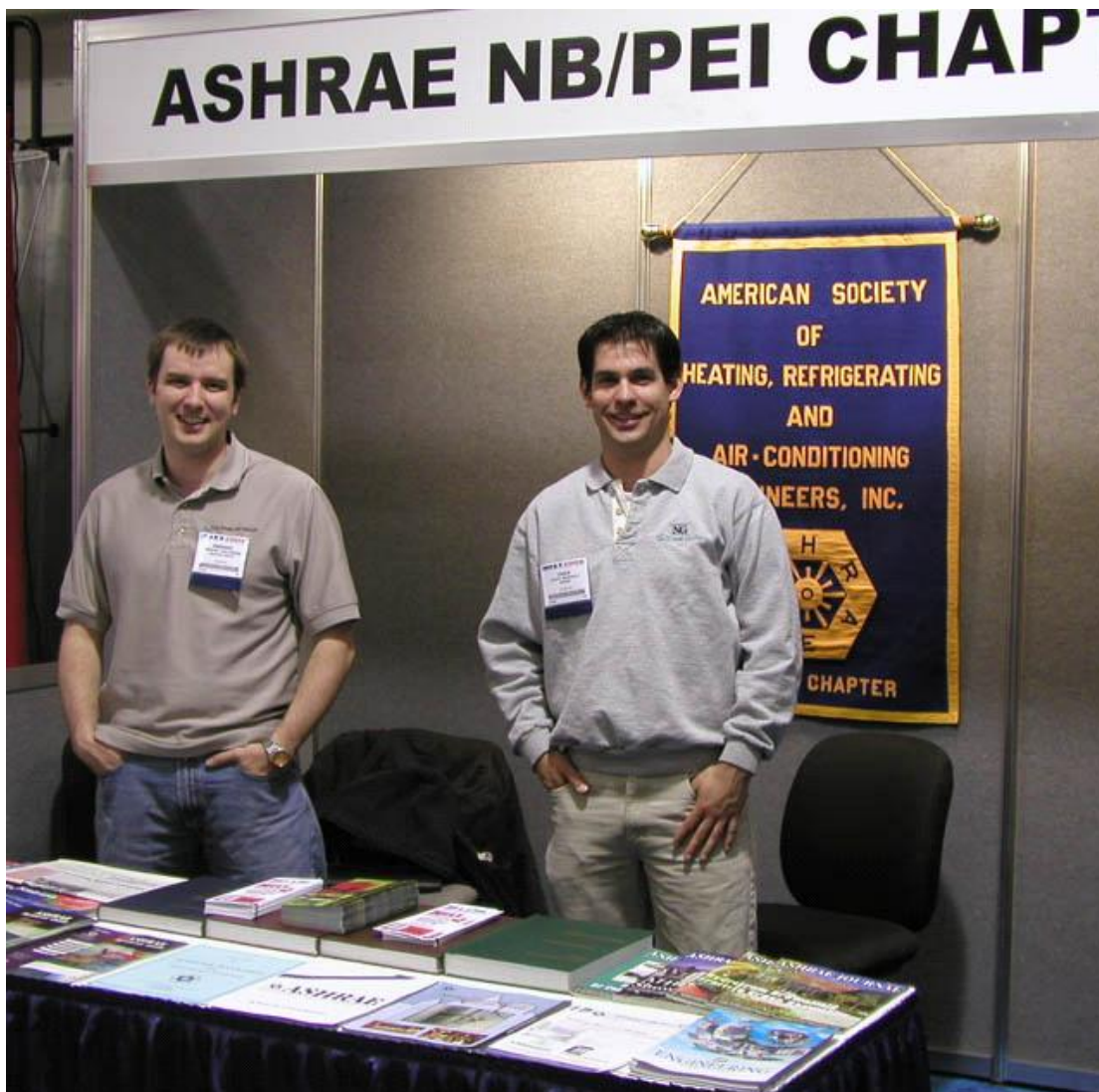
Society President Elect Kent Peterson, P.Eng. of P2S Engineering Inc. presented a more customer centered view of the design and construction business.

"Quality is not the absence of defects, but the presence of value, as defined by the client."

April 19, 2006 Building for Sustainability Webcast

NBCC Moncton hosted the Building for Sustainability Webcast and had a waiting audience of about 90 students and 10 instructors. Unfortunately, the actual transmission was unable to penetrate the campuses firewall and the show had to be cancelled after everyone arrived. The test available from *connectlive.com* did not test the same way the webcast was going to be transmitted.

May 3, 4 2006 MEET Show



Ron Vallort PE spoke twice on the future of Refrigeration. He made particular emphasis on how it could benefit the developing world. His audience at the show was a large cross section of mechanical, electrical, consultants, contractors and students. Ron spoke on “Direct Expansion Refrigeration and HVAC – Technology for Survival.” He reviewed the importance of all aspects of refrigeration and stated that when using any refrigerant, increasing the energy efficiency of refrigeration systems is the most effective way to battle global warming. Refrigerants must be chosen wisely to protect the earth for future generations. The next day, he spoke on “The Future of Refrigeration and HVAC.”

June 2006 Lobster Plant Tour and Scholarship Presentation

The last technical tour of the year was hosted by The Barry Group at the previously Paturel's lobster processing plant in Cab Bimet. The end of the year dinner and installation of new officers was held across the road at Paturel's Restaurant. The \$500 NB/PEI ASHRAE Chapter Scholarship winner, Scott Mallais received the scholarship at the June meeting. Scott is the son of member Bill Mallais. He is attending the Université de Moncton and enrolled in the physics program.

August 10 ASHRAE NB-PEI Annual Golf Tournament

There was a good turnout, 74 golfers, including our associates from the Nova Scotia Chapter and guests from around the region. The low score for the tournament was by the AEM Team (Marc Pelletier, Rino Levesque, Scott LeBlanc, and Doug Briggs) with a score of –8, but everyone walked away a winner as the Surf and Turf meal was a repeat of our previous experience and was superb!

2006 CRC in Niagara Falls

In August 25 Chapter representatives attended the CRC hosted by the Hamilton Chapter.

Frédéric Desjardins	Delegate
Camille Chevarie	Alternate
Gerry Waselynychuk	Historian and CRC Liaison
Dwight Scott	Programs
John Willden	Student Activities
Damien Monk	Membership

2006 – 2007 President Frédéric Desjardins

Executive

President Elect: Camille Chevarie

Treasurer: Dan Boudreau
Secretary: Patti Crouse
Vice President: Ken Martin
Newsletter Editor: Craig Brown
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Membership: Damien Monk
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Resource: Charles Edwards
MEET Chairman: Gerry Waselynychuk
WebSite: Kevin Clannon

Board of Governors

Michael Gillis
Andy Cowan
Grant Bourque
Chuck Edwards

September 12, 2006 Student Night and Pumphouse Brewery Tour

A detailed technical tour of the brewery and bottling plant on Mill Road was followed by supper. The tour was given by the president Shaun Fraser. One new student member attended. In 2005 Pumphouse Brewery won the coveted title of "Canadian Brewery of the Year".

October 11, 2006 Past Presidents Night - Firestopping

Location was Boomerangs Steakhouse. Mr. Illya Kornobis, Sales Manager for Royal Quickstop Fireprotection Systems Company, discussed the advantages of a ULC listed fire insulation wrap system designed to meet NFPA 96 requirements for ventilation air duct fire protection and grease duct systems tested to zero clearance from combustibles.

Prior to the meeting, ASHRAE Society awards were presented to Chuck Edwards for his leadership in Resource Promotion last year. Ken Martin, past president, received Society awards for being the best chapter of our size

(100-200 members) in five of the six categories last year.

November 14, 2006 Resource Promotion - Venting Gas Equipment

Location was Boomerangs Steakhouse. Chris Snow, Manager of Service and Inspection for Enbridge Gas New Brunswick, discussed the various venting requirements for natural gas equipment with reference

to the B149 Code. Jim Morris of MacLeod and Grant also spoke briefly about new developments in the commercial and industrial aspects of natural gas equipment.

NB/PEI ASHRAE Chapter Scholarship NBCC for \$1000 was awarded to Andrew Gordon. Andrew is a senior year student at NBCC Saint John. He is enrolled in the Energy and Environment option of the Mechanical Engineering Technology program.

December 12, 2006 Refrigeration Night - VS Drives in Chillers

Location was Boomerangs Steakhouse. Mr. Joseph Tarascio, Regional Equipment Director with Johnson Controls Canada, gave a very interesting illustrated talk on Variable Speed Drives in Chillers. He compared characteristics of constant speed machines with throttling devices, and variable speed machines without throttling.

York sponsored a tabletop display of variable speed drive literature.

January 2007 Resource Promotion - Alternate Energy

Location was Boomerangs Steakhouse. Dr. Yves Gagnon, holder of the K.C. Irving Chair in Sustainable Development at the Université de Moncton, gave a very entertaining and educational presentation on Alternate (Wind) Energy in NB and PEI. Using "Wind Resource Maps of NB and PEI, he indicated those areas where the development of wind energy is feasible.

Scholarship

The Emile R. Leblanc Memorial Scholarship for \$1000 was awarded to Mitchell Stockdale, a senior year BSET student at NBCC Moncton.

The award is being presented to Mitchell by John Willden, Student Activities for the chapter.



February 13, 2007 Student Night - Geothermal Heat Pumps

Location was Boomerangs Steakhouse. Mr. Glenn Kaye, president of Maritime Geothermal Ltd., gave a thorough overview of Geothermal Heat Pumps.

March 13, 2007 Membership Promotion - Kitchen HVAC

Location was Boomerangs Steakhouse. Mr. George McGrath, president of Melink Canada described the benefits of on-demand kitchen ventilation. The principle of the control system is to reduce exhaust and make-up airflows when kitchen appliances are not cooking at design outputs. A system of in-hood temperature sensors, VFD fan drives, and an optic smoke/vapour sensor are integrated with an I/O processor and operator keypad station.

April 11, 2007 Webcast on Indoor Air Quality - NBCC Moncton

Student attendance was nil due to students being on a work attachment.

May 8, 2007 Building Commissioning Course - NBCC Moncton

The seminar was led by Rick Casault, P.E., CDT, President of Casault Engineering. The course, based on ASHRAE's Guideline 0-2005, "The Commissioning Process," explored the application of the commissioning process to new construction and to existing facilities. Attendees also learned about the benefits of commissioning, documentation requirements, issues in specifying commissioning, and the economics of commissioning. The course was well attended ~ 60 attendees.

May 15, 2007 History Night - Commercial Heat Pump Failures

Location: Maverick's Steak House, Future Inn. ASHRAE Distinguished Lecturer, Bill Lotz regaled the audience with tales of failed geothermal heating and cooling systems. Bill travelled from Maine to give the informative and entertaining presentation.

June 12, 2007 Tour of Bonté Foods

The tour followed three distinct areas of food production at Bonté. These were meat preparation, baked goods and ready to eat. The tour also included a visit to their refrigeration plant and free pepperoni samples.

2007 – 2008 President Dwight Scott

Executive

President Elect: Dan Boudreau
Treasurer: Patti Crouse
Secretary: Nicole Bourgeois
Vice President: Ken Martin
Newsletter Editor: Robert McEwen
Historian: John Willden

Membership: Craig Brown
Programs: Gerry Waselynychuk
TEGA: Dwight Scott
Student Activities: John Willden
Refrigeration: Frédéric Desjardins
Resource: Frédéric Desjardins
MEET Chairmen: Gary Hoadley and Gary Fahie
WebSite: Kevin Clannon

Board of Governors

Luc Dugas
Tyson Silliker
Camille Chevarie
Damien Monk
Charles Edwards
Kenneth Martin

August 9, 2007 ASHRAE NB / PEI - 2007 - GOLF TOURNAMENT

Once again we had an excellent NB/PEI Chapter golf tournament with 71 golfers attending the event at the Moncton Golf & Country Club on August 9th. Again we had a good turnout from our associates from the Nova Scotia Chapter and guests from around the region. The weather cooperated and the course was in fine shape. The low score for the tournament of minus 5 was a tie between Andy Cowan's Controls and Equipment team and Gary Fahie's Global Mechanical Team.

Everyone walked away a winner as the Surf and Turf meal was a repeat of our previous experience and was superb! Once again we thank Gary and Jackie Fahie and their crew (Jim and Gord) as well as the Elks Club for a fine dining experience.

Don Webster won the ASHRAE Research longest drive contest and Ron McGee won the closest to the pin contest. ASHRAE Research was the benefit again from our efforts and over \$300 was raised for this cause.

The annual Boat Race was also held toward the end of the evening under the watchful eye of Gary Hoadley with prize donations by Global Mechanical. The Herring Choker New Brunswick Team retained their title with a strong showing and good work at the oars.

Junior Golf at MGCC also benefited from the sponsorship of MacLeod and Grant for the BBQ food and refreshments on # 2 from Global Mechanical. They raised over \$300 for the young golfer program at MGCC.

ASHRAE members Luc Dugas, Craig Brown, Chuck Edwards, Dan Boudreau, Patti Crouse, Gary Fahie, Grant Bourque and Jim Morris deserve our thanks for their volunteer efforts.

August 14, 2007 CRC Preparation Meeting

Location: Moncton Construction Association on Collishaw Street. The executive and volunteers reviewed any last minute changes at the CRC and reviewed minutes from the last meeting. Gerry Waselynychuk was the CRC chair organizing the event.

August 24, 2007 CRC – Moncton Chapter

The CRC was well attended.

The first technical sessions was on Seismic Restraint by Derek Johnson of Tecoustics Limited.

The second and third technical presentations were by



ASHRAE Distinguished Lecturer, Victor

Goldschmidt. The first was on global warming and the second was on the future of air conditioning.

After hours activities included a cruise called Lobster Tales which included yet another technical presentation, this one about lobsters and the lobster business hosted by Eric LeBlanc. The boat was

chartered from Shediak Bay Cruises and included a lobster feast aboard a lobster boat modified to be a dining room.

President Elect Bill Harrison attended the Region 2 CRC in Moncton.

September 11, 2007 Student Night – Radiant Cooling

Boomerangs Steak House was the location. Jean-Marie Breault of Uponor gave a presentation on commercial applications of radiant cooling. Mr. Breault is an applications engineer with the Regina office of Uponor Ltd. He was accompanied by Mark Kenny a Moncton representative from Hydro-Mechanical Sales.

The principles of radiant heating and cooling were reviewed. A number of case studies of cooling systems were discussed, including several Scandinavian buildings and a new airport in Thailand. The new head office building of Manitoba Hydro, and the new Winnipeg airport were also presented.

We have 31 Student members signed up this year between Université de Moncton and NBCC Moncton.

The NB/PEI Chapter presents a \$500 scholarship to a son or daughter of an ASHRAE member. This year, the winner is Bethany Marie Chaisson of Charlottetown, who has entered a first year BSc program at UPEI. Bethany is the daughter of Frank Chaisson.

October 9, 2007 Past Presidents Night - Topic: VS Pumping

Farid Bahiou of Wilo Pumps made a Power Point presentation on the advantage of variable speed pumping. A brief review of the similarity laws (power is proportional to speed ratio cubed) means that power requirements can be reduced by almost 90% if the operating speed (and thus, flow rate) is halved. Most pumps are oversized, due to multiple safety margins.

Scholarship

On November 2, 2007 a \$1000 scholarship was presented to Robert Haynes, a 2nd year student in the Mechanical Engineering Technology Program (Buildings -- Energy and Environment Option) at the New Brunswick Community College Saint John Campus. The award was presented by ASHRAE member, Douglas Scott, an instructor at NBCC, and the faculty advisor for the ASHRAE NB/PEI Chapter Student Branch in Saint John. Robert is a student member of ASHRAE.

November 13, 2007 Resource Promotion - Technical Tour Polycello

Patti Crouse, Treasurer, arranged the technical tour of Polycello in Amherst. Polycello is a 200,000 sq. ft. plant that manufactures flexographic packaging for the food industry internationally.

Our guides, Louise, Pius, Frank and Stephen toured us through the converting room, extruder machines, the extrusion system, ink presses, ink room, graphics area and plate room. The ink presses receive specified inks that are pumped by pneumatic pressure. Polycello creates the film on site utilizing polyethylene pellets.

Polycello is a very waste conscious company. All excess cut film is vacuumed back into the extruder system where it is melted down and made back into a pellet form. All glycol and solvents used to operate and clean the presses are pumped back into a waste management system where it is refined for reuse.

December 11, 2007 History Night - BACnet

Wondy Tamene, P.Eng, Systems Sales Consultant for Honeywell Building Solutions (HBS) presented the BACNet protocol for building automation.

The major points of his presentation were related to inter-connectivity:

Fundamentals – standards, SSPC 135, BI & BTL, Plugfest

Current – Status, BACnet conference report, membership levels and benefits

Future – roadmap, Working Groups, application in work

Value and Benefit

Challenges – when does it fail?

January 8, 2008 Student Night – Energy Efficiency Programs

Mike Bujold, Director, Commercial Sector Programs for Efficiency NB gave a presentation about some of the initiatives currently underway in the residential, commercial and industrial sectors.

The NB Climate Change Action Plan was officially launched in June 2007. The technical challenges at this time are:

- the need for a NB energy code
- selling the business case for life-cycle cost projects vs first cost projects
- reducing resistive heating loads
- creating a culture that “everybody’s a winner!”
- overcoming barriers with respect to small commercial buildings

In the commercial sector, three new programs are underway:

- a subsidy for energy efficient lighting at electrical distributors in the province
- up to \$2000 grants for energy audits and \$50,000 grants for retrofit projects
- Smart Start for New Commercial Buildings provides grants of up to \$60,000 to offset the cost of designing sustainable high-efficiency buildings

The industrial sector program objectives include:

- establishing a strategy for sustainable energy and GHG reductions.
- address key barriers (research, financial, risk)
- promoting technology and best practices.
- supporting productivity improvement and increased competitiveness.
- building capacity and a culture of efficiency.

The presentation was posted to the chapter website.

2008 Scholarship

The Emile R. LeBlanc scholarship for \$1000 was presented to Charline Godin. Charline is a second year NBCC student taking the Building Services Engineering Technology (BSET) program at NBCC Moncton. Charline and three of her colleagues are on the Deans List at the college and Charline spoke at the graduation ceremonies in June. The award was presented by chapter Student Activities Chair John Willden.



ASHRAE
NB PEI CHAPTER



New Brunswick
Community Colleges
Collèges communautaires
du Nouveau-Brunswick



February 12, 2008 Resource Promotion Night - Air/Air Heat Recovery

Eric Van Uytvanck of Venmar CES gave a most interesting talk on Energy Recovery Technologies. We shared the speaker with the Halifax Chapter.

Eric made a strong case for energy recovery on the basis of rising energy costs, IAQ, liability issues and new standards and codes. He briefly discussed ASHRAE Proposed Standard 189.1P, a Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings. It uses ASHRAE Standard 90.1-2007 as a baseline. He also reviewed the LEED green building rating system.

He stated that future efficiency requirements would mean that almost all buildings would need some form of heat recovery.

- Air-to-Air Plate Heat Exchangers: sensible efficiencies of 50%-70%; can also provide latent heat recovery if a polymeric membrane is used.
- Heat Pipe Exchangers: sensible efficiencies of 45%-50%. Mostly used in process applications where 0% contamination is required.
- Energy Wheels: 65%-80% efficient (sensible plus latent). Desiccants are used for latent transfer, either with molecular sieves or silica gel. Contamination between air streams may be combated through use of a purge section, and by paying attention to the fan(s) location.

February 22, 2008 Moncton Wildcats Family Outing

A Sunday afternoon game provided some great entertainment for ASHRAE members and guests. The QMJHL Cats lost to the Lewiston Maineiacs 3-2 in an exciting shootout.

March 11, 2008 Membership Night – Humidification

Serge Landry, of Vapac, made a presentation on humidification technologies. In general, humidifiers may be classified as adiabatic, in which there is no heat transfer into the air- water vapour mixture, and isothermal, where sufficient heat energy is added to the air to maintain the air-water vapour mixture at a constant temperature.

There are four major reasons why humidification is important:

- Health and comfort of people
- Provide a controlled environment for a process
- Maintain physical quality/integrity of materials
- Eliminate static electricity shocks

Serge then reviewed the features of common types of humidifiers, including:

- Electrode Type Humidifiers
- Resistance Type Humidifiers
- Gas-Fired Type Humidifiers
- Heat Exchanger Type Humidifiers
- Steam Distributors
- Short absorption manifold
- Humidifier Controls

April 8, 2008 Student Night - Distinguished Lecturer

Karen Rollins, of Canmore Alberta, one of ASHRAE's Distinguished Lecturers, presented a most interesting overview of some of her work, using the provocative title, "Confessions of an Air Quality Consultant." Karen discussed some actual case studies from her own experience, including:

- damage of a relatively new home used as a marijuana grow-op
- damage of a new home resulting from improperly applied building wrap
- mold contamination of a dialysis unit in a large hospital
- severe mold damage in a large school, due to improper roof maintenance

With many photographs of the above case studies, and at times a humorous commentary, Karen introduced such important factors as the need for interdisciplinary approach, ethical responsibilities, the role and limitations of air testing, political elements, and environmental management.

We were also pleased to welcome Joel Primeau from Ottawa, ASHRAE's Region II Regional Vice Chair for Student Affairs, who spoke briefly about some changes in support for student members. Both Karen and Joel had visited the Halifax Chapter the previous evening, and on the way to Moncton, took a detour to see the Confederation Bridge and briefly visit PEI.

April 6, 2008 Web cast: Integrated Building Design

Unfortunately this web cast hosted at the local community college (NBCC Moncton) was poorly attended since the students were on their work attachment. There was also a power failure so the web cast was only visible for the last 1.5 hours. Six members attended.

May 7-8, 2008 MEET Show – Distinguished Lecturer: Lawrence

The BSET (Building Services students from NBCC were released from classes so that they could attend all the presentations and as much show as possible. The MEET 2008 Show on May 7 & 8 drew record crowds.



Tom

of the

Once again, our Chapter brought in an ASHRAE Distinguished Lecturer for two seminars. Dr. Tom Lawrence, PhD, P.E., LEED-AP from the University of Georgia spoke on Wednesday morning on the topic, The ASHRAE Green Guide. Thursday morning, his topic was, "Mechanical Design for Green Buildings." Both seminars were packed, and extra chairs had to be brought in.

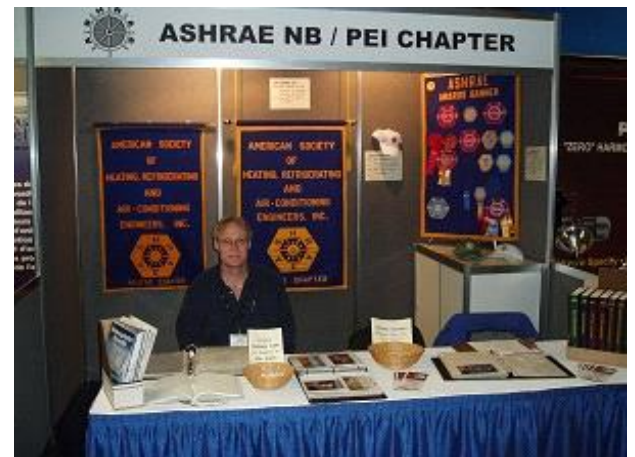
The Green Guide is designed to assist designers using easy-to-understand language and many useful diagrams and charts; it includes 37 Green Tips and stresses the importance of planning for continuous commissioning.

The seminar on “Mechanical Design for Green Buildings” covered the following:

- What is “green” and why do it?
- How HVAC systems affect being green
- Example technology areas for focus and current trends
- The proposed ASHRAE Standard 189.1

NB/PEI Chapter Booth at MEET 2008

Ken Martin presiding.



June 10, 2008 Installation of Officers

The meeting was held at The Creek and spouses were welcome. No technical presentation was made but a gift of appreciation was made to Dwight Scott, Outgoing President for his exceptional work these past years.

2008 – 2009 President Dan Boudreau

Executive

President Elect:	John Willden
Treasurer:	Nicole Bourgeois
Secretary:	Jennifer Chapman
Vice President:	Dwight Scott
Newsletter:	Bob McEwen
Webmaster:	Bob McEwen
Historian:	Nicole Bourgeois
Membership:	Kevin Clannon
Programs:	Gerry Waselynychuk

CTTC: Craig Brown
Student Activities: Patti Crouse
Refrigeration: Frédéric Desjardins
Resource: Frédéric Desjardins
MEET Chairmen: Gary Hoadley and Gary Fahie

Board of Governors

Luc Dugas
Patricia LeBlanc
John Sparks
Gerry Waselynychuk

August 7, 2008 ASHRAE Golf Tournament

Hosted at the Moncton Golf and Country Club, Riverview, New Brunswick - (Supper – Elks Club – Moncton) sold out as usual.

September 9, 2008 Student Night:

Tour of Moncton Hospital's New Ambulatory Care Unit

Past Chapter president, Bill Goobie, and three colleagues conducted a tour for 21 people. The project was designed by another chapter member, John MacLean. Bill, as the hospital's facilities manager, is one of the project managers for the project, together with representatives of the general contractor and the provincial government.

October 14, 2009 Refrigeration Night: Tour of Molson's Brewery

Thirty-three people had a tour of the complete brewing operation, including the boiler plant and refrigeration systems. The bottle filling and packaging section was very interesting. Following the tour, product was sampled in the Eric Molson Room.

November 18, 2008 Membership Night: Seismic Restraints

Derek Johnston of Tecoustics Ltd. spoke on protecting mechanical equipment from earthquake damage. He was a repeat guest, on the basis of his seminar at the 2007 CRC.

December 9, 2008 PAST Presidents Night: Christmas Party

Past Presidents were honoured as chapter members and their guests enjoyed a social evening.

January 13, 2009 Student Night: Solar Water Heating

Rob Waters of Viessmann Manufacturing Company Inc. presented an overview of the solar thermal heating market, solar heating systems and applications. And some basic design criteria.

January 14, 2009 Solar Heating Technical Workshop

Thomas Industrial Sales sponsored a thorough six-hour technical seminar on the topic. Lunch was provided. The event was open to ASHRAE members and other professional engineers and technologists.

February 10, 2009 Resource Promotion Night:**Copper Fin Boilers**

An overview of copper fin boilers preceded a discussion of the advantages of condensing boilers, and explained the potential for using multiple fuels. MacLeod & Grant sponsored the meeting and provided a table-top display.

February 22, 2009 Afternoon Out with the Wildcats

Fifty-two people attended a Quebec Major Junior Hockey League game which saw the Cats defeat the Shawinigan Cataractes by a score of 3-2.

March 10, 2009 Refrigeration Night: Refrigerant Update

Jim Thomas of Refrigerant Services Inc. discussed some of the newer refrigerants on the market, and described a refrigerant recovery system to collect and incinerate used refrigerants which are no longer marketable.

April 13, 2009 Resource Promotion Night:**ASHRAE Distinguished Lecturer – Robert Bean**

Robert Bean of Calgary gave a very interesting talk on The Human Factor in HVAC. He stressed the need to integrate engineering, architectural and biological/medical input to achieve a well-designed building. His animated presentation depicting the physiology of the human body was very effective.

May 12, 2009 Variable Frequency Drives and Motors in the HVAC Industry

Steve Fecica of MGI Technologies Inc. presented an overview of 25 years of VFD history, and showed how applying the affinity laws to variable flow systems lead to greater energy efficiency.

June 9, 2009 Indoor Natatorium Design and Energy Recycling

Tony DeSantis of Dectron Internationale discussed design of indoor swimming pools, and how to cope with the humidity in such locations.

2009 – 2010 President John Willden

Executive

President Elect	Robert McEwen
Treasurer	Nicole Bourgeois
Secretary	Jennifer Chapman
Vice President	Dan Boudreau
Newsletter Editor	Yves Savoie
Webmaster	Yves Savoie
Historian	Dwight Scott
Membership Chair	Kevin Clannon
CTTC Chair	Dwight Scott
Student Activities Chair	Patti Crouse
Resource Promotion Chair	Frédéric Desjardins
MEET Chairmen	Gary Hoadley and Gary Fahie

Board of Governors

Mathieu Breau
 Craig Brown
 Fred Desjardins
 Luc Dugas
 Richard MacArthur
 Gerry Waselynychuk

August 6, 2009 Chapter Golf Tournament

Seventy-three participants enjoyed fine weather, a non-hour BBQ at the club, and a steak and lobster banquet at the Elks Club to wind up the day. The hole sponsorship garnered \$1800 for ASHRAE Research Canada.

A trio of swingers



Surf and Turf

September 8, 2009 YEA Night / Student Night: Moncton VISION Home Project

Paul Arsenault of AlternaHome Solutions described the sustainable home being built in Moncton, as one of three demonstration homes in Canada under CMHC's "Equilibrium Initiative". Over 30 people attended, including a good number of NBCC students.

**Fred Desjardins (r)
received RP award from
John Willden**

**October 13, 2009
Refrigeration Night:
Hybrid Heat Pump Systems**

Raoul Gautreau of the CGC

Group described a water-source

heat pump system for hydronic heating or cooling. The key feature of hybrid systems is the lack of a refrigerant reversing valve. Rather, in the heating mode, water is diverted to a secondary heating coil in the fan coil units. This eliminates the need to run compressors in the heating mode.

Also, Mathieu Breau and Yves Savoie described their positive experience at ASHRAE's first YEA Weekend at the new ASHRAE headquarters in Atlanta.

Certificates of appreciation were presented to last year's ASHRAE Research Canada campaign.



November 10, 2009 Refrigeration Night: Current and Future Trends

Back by popular demand, Jim Thomas of Refrigerant Services Inc. discussed some of the newer refrigerants on the market. Jim discussed global warming potential (GWP) and ozone depletion potential (ODP) of various refrigerants. He mentioned a new hydrofluoroolefin (HFO) refrigerant under development, and a new Wal-Mart store using a CO₂ refrigeration system in the USA.

December 8, 2009 History Night: The Chris Rock Tavern

Chapter Historian, Dwight Scott, gave a two-part Power Point slide presentation on the oldest continuously operating tavern in New Brunswick. The history and evolution of the tavern was first described, followed by a biographical sketch of the career of S.H. “Spud” Perry (1908-1968), the man who designed and installed the refrigeration systems in 1963. Three of Spud’s four children and two of his grandsons (both Chapter members) were guests of the chapter. The event was also our Chapter’s Christmas party, with some 35 people in attendance.

George Menzies, Region II History RVC, was another special guest. He gave an interesting review of ASHRAE’s development from the 1880s onward.

Oldest tavern in New Brunswick

**January 12, 2010 Membership Promotion Night:**

Liability by Design – Part I

Gregory A. MacLean, LLB, provided an overview of the legal problems professionals can unwittingly encounter by not being careful when entering into contracts. His risk management checklist was a very useful tool.

February 9, 2010 Resource Promotion Night / Refrigeration Night: Piping Systems

John and Donna McGuire gave an interesting presentation and interactive demonstration of fusion welded polypropylene pipe. Twenty-six people attended, including a few Université de Moncton students.

February 28, 2010 Wildcats Game Family Outing (3rd Annual)

Moncton’s QMJHL team defeated the Halifax Mooseheads by a score of 7-1. This annual mid-winter family event has continued to be popular.

March 9, 2010 Student Night: Tankless Water Heaters

Mike Matheney and Mihai Mihai of Navien discussed the various advantages of using gas-fired tankless water heaters in certain applications.

Guy Perreault, DRC for Region II described the dual roles of a DRC (ASHRAE Director and Regional Chair. Attendance was 34.

April 13 2010 Refrigeration Night:

ASHRAE Distinguished Lecturer – William J. Coad

Bill Coad of St. Louis, MO, gave a very well-prepared and thought-provoking presentation on A Fundamental Perspective on Chilled Water Systems. For optimum performance, cooling coils should operate with constant T_s and T_r , while chillers are best operated at constant flow. Several ways to achieve these conditions using throttling valves or bypass loops on coils, and bypass loops on chillers were discussed.

May 5&6, 2010 MEET SHOW

ASHRAE Distinguished Lecturer: E. Mitchell Swann

During the show, Mitchell Swann gave two seminars. “Design Build – Executing the Project,” and “Design Build for Green Buildings”. A total of 73 people attended these presentations.

June 19, 2010 Past Presidents’ Night at the Cocagne Marina

The evening began with an hour cruise on Cocagne Bay, during which time steamed mussels were served. Following a return to the Marina, 44 people enjoyed a dinner of lobster or steak with all the trimmings.

Mussels on the Bay



Brian Hildreth, President, 1975-76



History Display – the year in review

Twelve Past Presidents



2009-2010 Scholarships from NB/PEI Chapter

Emile R. LeBlanc (NBCC-
Moncton)

Tanya Steeves

Chapter Scholarship – NBCC-
Saint John

University of New Brunswick
Phillippe
Couturier



Chapter Scholarship to a child of a chapter member Jonathan Stevens



Université de Moncton Scholarship

presented to Pierre Arsenault by Region II DRC, Guy Perreault

Holland College Scholarship presented to Jason McKinnon by Frank Chaisson of Charlottetown, PEI



CCNB – Edmundston Scholarship presented to Robert Goral by ASHRAE DL, E. Mitchell Swann at MEET 2010

2010 – 2011 President Robert McEwen

Executive

President Elect	Kevin Clannon
Treasurer	Jennifer Chapman
Secretary	Mathieu Breau
Vice President	John Willden
Newsletter Editor	Robert Hoadley
Webmaster	Robert Hoadley
Historian	Dwight Scott
Membership Chair	Yves Savoie
CTTC Chair	Mathieu Breau
Student Activities Chair	Amanda Wood
Resource Promotion Chair	John Willden
MEET Chairmen	Gary Hoadley and Gary Fahie

Board of Governors

Eugene Bilodeau
Dan Boudreau
Fred Desjardins
Luc Dugas
Jason Nelson
Jeannot Thibodeau
Gerry Waselynychuk

August 5, 2010 ASHRAE NB/PEI Golf Tournament

Seventeen teams competed for the many prizes. Once again, the lobster and steak dinner topped off a fine day.

2010 CRC

A large delegation of NB/PEI Chapter members and their companions attended the 2010 CRC in Halifax.



Society President, Ron Jarnigan,
presenting awards to John Willden at CRC in Halifax

September 14, 2010 Refrigeration Night: Trans-Critical Heat Pumps

Quinn Vo of Mycom North America presented the thermodynamics and engineering challenges of trans-critical heat pumps. Using CO₂, and operating above the critical point, these systems have very high Coefficients of Performance. The EcoCute heat pump system won the ASHRAE Innovation Award at MEET 2010.

October 12, 2010 History Night: Filtration Systems for Diesel Generators

Chris Curtis of ReFuel described the problems which can occur when low-sulphur fuel is stored for use in standby diesel generator sets. Water contamination, sludge and microbial growth are dangers when fuel is not used promptly (as in transportation). Continuous closed loop filtration can avoid these problems.

November 9, 2010 Student Night / YEA Night:

Liability by Design – Part II

Greg MacLean, LLB, returned to continue the presentation he began in January. He gave expanded emphasis on risks one might face in contract law. Due to the popularity of the topic, members of the Moncton Branch of APEGNB were invited. A total of 27 people attended.

December 14, 2010 Resource Promotion Night:

LEED New Construction Rating System

Kate Butler of the Canadian Green Building Council discussed some important updates in LEED Canada NC 2008. Attendance was 32.



Resource Promotion Display

January 11, 2011 Membership Night / Governmental Affairs Night: Efficiency New Brunswick

Thirty-two people heard Scott Garinther of ENB describe the latest incentive programs for commercial projects. Four case studies were presented. He also discussed the *Core Performance Guide* developed by the Province of New Brunswick, the first province to do so.

February 8, 2011 History Night: Biomass Boilers

Simon Koeb of Viessmann Manufacturing in Vancouver discussed the principles of using biomass for fuel. Several interesting case studies were presented, including La Cité Verte in Quebec City, a district heating system serving 840 residential units, plus commercial space.

February 9, 2011 Biomass Boiler Seminar

Simon Koeb presented a day-long seminar on designing applications of biomass boilers. Thanks to Thomas Industrial Sales for sponsoring Mr. Koeb's presentations.

February 20, 2011 Fourth Annual Wildcats Family Day

The Moncton Wildcats beat the Val-d'Or Foreurs by a score of 5-2 in another popular event for chapter members and guests.

March 8, 2011 Student Night / YEA Night:**The Normand-Maurice Building**

Region II CTTC RVC, Jean-Gabriel Joannette of Pageau Morel and Associates in Montreal presented a case study of a multi-purpose government project in an industrial area of Old Montreal. Some of the original buildings dated from 1851, and the site required much remediation. Much of the material was reclaimed for later re-use, which required a process of deconstruction, rather than demolition. The project was awarded a 2009 ASHRAE Technology Award and earned LEED certification.

Twenty-five people attended, including Francis Lacharité, Region II RVC for Student affairs, and Michel Lacompte, vice-president of the ASHRAE Montreal Chapter.

Jean-Gabriel Joannette receiving a souvenir clock from Kevin Clannon

April 12 & 13, 2011 Resource Promotion Night:

ASHRAE Distinguished Lecturer – Victor W. Goldschmidt

Twenty-five people attended Tuesday evening's lecture on "Sustainability in the Context of Power Plants". By presenting the three sectors of *stability – environment, social and economic*, Victor showed that sustainability is only possible when these three sectors overlap. He also showed data on capacity factors and \$/MWh for several so-called "green" energy sources. On this basis, he demonstrated why electric and hybrid cars are not really practical.

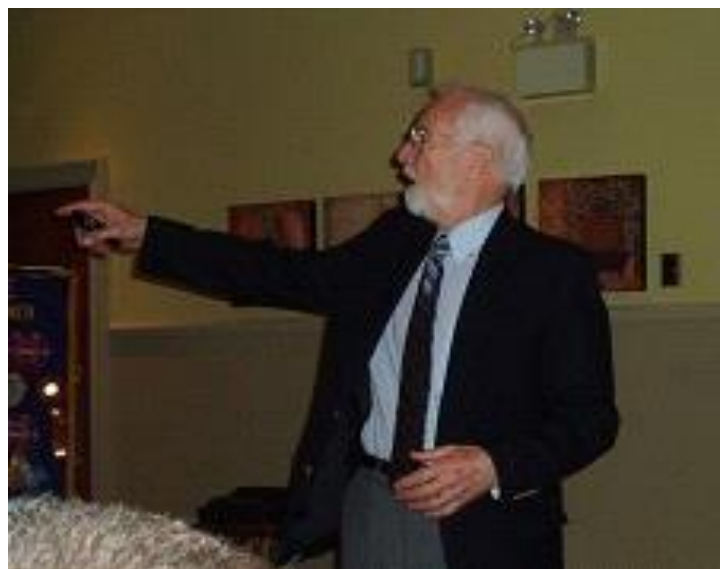


Region II RVC for Research Promotion was in attendance and presented Dan Boudreau with the Howard Murray Award for leadership and fundraising ability, having raised \$10,052 for ASHRAE Research Canada.

Dan Boudreau received the Hayward Murray Award from RP RVC, Dave Rasmussen

The next afternoon, Victor led a lively interactive workshop on "Problem Solving and Creativity" for students at NBCC. Members of the APEGNB Moncton Branch were also invited to both sessions.

ASHRAE DL, Victor Goldschmidt





Problem Solving and Creativity Workshop at NBCC-Moncton Campus



May 10, 2011 Technical Tour of New York Thermal Inc.

Some 20 people NTI in Saint John. Following a slide presentation of some technical details of the boiler lines, the assembly plant, training room and development lab were toured. After reconvening in the conference room for a question and answer session, the group moved on to the NBCC campus for pizza.

June 18, 2011 Past President's Night at the Cocagne Marina

Following the success of last June's outing, we once again invited Past Presidents to join chapter members and guests for an afternoon and evening of boat ride, mussels, and a lobster dinner. Twenty-nine people enjoyed the day, including eight past presidents.



Irwin MacDonald (1978)
Shirley Waselynychuk
David Potter (1981)



Chuck Edwards (2004)
Eric LeBlanc
John Willden (2009)



Dwight Scott (2007)
Val Chongva
Chantale McEwen
Bob McEwen (2010)



Dinner is served



Judy Bavis Kirk Bavis (1972)



Kevin Clannon Bob McEwen



Past Presidents

2010-1011 Scholarships

Chapter Scholarship to a child of a chapter member: Breannah Tweedie

University of New Brunswick: Timothy Wilson

Université de Moncton:



Heather Ginson receiving the
Emile R. LeBlanc Scholarship from John Willden

Chapter Scholarship – NBCC-Saint John

Instructor, Doug Scott presenting award to
Jonathan Adamson



Holland College Scholarship

presented by Program Manager, Kent Sheen
to Jeff MacDonald

CCNB – Edmundston Scholarship

L-R: Maurice Chiasson, Gas Instructor; Justin Beaulieu, ASHRAE member; Richard Martin, recipient; Luc Bouchard, Oil Burner Instructor



2011 – 2012 President Kevin Clannon

Executive

President Elect	Dwight Scott
Treasurer	Jennifer Chapman
Secretary	Eugene Bilodeau
Vice President	Bob McEwen
Newsletter Editor	Rob Hoadley
Webmaster	Rob Hoadley
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Board of Governors

Frédéric Bernard
Michael Boudreau
Mathieu Breau
Camille Chevarie
Pierre Comeau
Frederic Desjardins
Luc Dugas
Eric Leblanc

Kevin Leger
Kenneth Martin
Jason Nelson
Gerry Waselynychuk

August 5, 2011 ASHRAE NB/PEI Golf Tournament

The 2011 Golf Tournament was held at the Moncton Golf & Country club. Twenty teams competed for the many prizes. Once again, the lobster and steak dinner topped off a fine day. The hole sponsors contribution went to the ASHRAE Research Canada.

2011 CRC AUG 26th to AUG 28th

A large delegation of NB/PEI Chapter members and their companions attended the 2011 CRC in Quebec City from Aug 26th to Aug 28th...

Society President Elect, Tom Watson

Making his presentation at CRC in Quebec City.



Our Chapter members receiving their awards at the CRC

Our Chapter Historian 2010-11, Dwight Scott receiving his Golden Ribbon Award from RVC George Menzies at the CRC



September 13, 2011 Refrigeration Night:

Variable Refrigerant Flow Technology

Roger Nasrallah of Enertrak presented the present day practises and advantages of using Variable Refrigerant Flow Systems for various applications. He discussed the types of systems available and their relative merits and limitations. He also highlighted the various benefits of VRF Systems over conventional systems.

October 11, 2011 Students Night: Chilled Beams

Daniel Harris of Dadanco Inc., spoke about Active Chilled Beam Systems. He explained as to how the cost savings in Fan Energy is achieved by circulating only the fresh air requirement as per ASHRAE Standard 62.1 in duct work which induces about 4 times additional flow through the chilled beams to which the fresh air is delivered. Chilled beams have the specially designed nozzles to induce the additional flow of recirculated air. The coils in the Chilled Beams operate with a higher chilled water temperature than the dew point. Thus there is no condensation and no need for drain piping.

November 8, 2011 Membership Promotion / YEA Night: 100% Outside Air & Dehumidification Management Systems

Danny Suansing of Addison LLC of Orlando, FL spoke about Make Up Air Systems and the various Control Options that are available to control the dew point and RH at which the makeup air is delivered. These include Hot gas Reheat , Digital Scroll Compressors, Dual Compressor Systems with and without H G bypass control etc. Additional improvement of EER is possible by incorporating an Energy Conservation Wheel.

December 13, 2011 Research Promotion Night:

Christmas Party & Past Presidents Night

There was no technical presentation but it was a Party Night. It started with a wine tasting session hosted by sommelier Lisa Gautreau accompanied by hors d'oeuvres by the City Grill. A total of 43 participants, including 13 Past Presidents attended this delightful function.

The highlight of the evening was a special toast to our Chapter's First President Kirk Beavis who was present.

Our 13 Past Presidents in attendance



Two of our Past Presidents with their spouses

Brian Hildreth and Kirk Bavis

January 10, 2012 CRN Numbers for Natural gas Installations

Twenty two people attended the presentation by Eben Creaser, Chief Boiler Inspector and Chairman of the PE Board of Examiners for the Province of New Brunswick. His primary focus was the importance of Canadian Registration Number which is required for any boiler, pressure vessel or pressure piping including refrigeration piping.

February 14, 2012 Investments and Tax Free Savings

This was a joint presentation by Steve Morrison, Regional Director of National Bank Securities and David Schofield of national Bank. It was on Global Economic review and investing in 2012. They also explained the Tax Free Savings Account, its provisions and advantages.

March 13, 2012 Membership Promotion Night - Construction Bonding

Gilles LeBlanc of Assurance Goguen Champlain Insurance Inc., provided a deep insight in to the Construction Security Bond, why it is needed, what it is, how to apply and obtain a bond, why some owners will accept only a bond and not certified cheques or other instruments.

March 18, 2012 Social Afternoon Out With the Cats:

An enjoyable afternoon watching a hockey game of Wild Cats versus Acadie Bathurst Titans at the Moncton Coliseum

April 10, 2012 Research Promotion Night:

Improving Energy Efficiency in K12 Schools

The presenter was an ASHRAE Distinguished Lecturer, Verle Williams. He is also a Registered Professional Engineer and a certified Energy Manager. He is the owner and president of Utility Services Unlimited. Thirty three people were in attendance and the speaker explained how to achieve sustainability with a successful K12 District-wide Energy Conservation Program. A case study of San Diego Unified School District's Energy Efficiency Program/Facilities Improvement Project was explained from conception to completion.



Chapter President Kevin Clannon presenting a gift to the Distinguished Lecturer Verle Williams who was the speaker at the April meeting.

1 Chapter President Kevin Clannon presenting a gift to the Distinguished Lecturer Verle Williams who was the speaker at the April meeting.

May 2-3, 2012 MEET SHOW:

On May 2nd about 100 people attended the presentation on transforming an older facility into a High Performance Building. Jim stressed the importance of Energy Audits and Retro-Commissioning in bringing a facility up to specification in HVAC Efficiency, service water and lighting systems.

On May 3rd about 55 people attended the presentation entitled Green Practices and ASHRAE Standards 90.1 and 62.1 – How to have a Healthier, More Profitable Building with Better Mechanical/Electrical Design (and More Thought to the Building Envelope). Mr Newman described how to surpass the ASHRAE Energy and Ventilation Standards to refine and better maintain mechanical and electrical/lighting systems.



3 Dwight Scott, Chapter President Elect with D L James L Newman & David Samuel, Chapter Historian at the ASHRAE NB/PEI Chapter Booth.



2 Dwight Scott, Chapter President Elect presenting a gift to Distinguished Lecturer James L Newman following the seminars at the MEET Show 2012.

June 12, 2012: Alternate Energy – Panel Discussion on Geothermal Technologies.

Twenty-five people attended Tuesday evening's panel discussion. The panel consisted of Steven Tweedie of TACE, Mark Belanger of Master Montreal and John Conroy of Conroy Refrigeration.



John

Steve Tweedie, John Conroy and Marc Belanger with Kevin Clannon

Before the meeting, at the BoG, Dwight Scott thanked all the outgoing Executive for the year 2011-12 as pictured below and presented certificates of appreciation.



He then welcomed the incoming executives that were present as pictured below.



2011-2012 Scholarships

Chapter Scholarship to a child/spouse a chapter member: Chantal LeBlanc



University of New Brunswick: Michelle Duffield (Fredericton Campus)

Université de Moncton:

Emille R Leblanc Scholarship:

NBCC, Saint John: Daniel Arsenault

2012 – 2013 President Dwight Scott

Executive

President Elect	Camille Chevarie
Treasurer	Frederic Bernard
Secretary	Sharlene Innes
Vice President	Kevin Clannon
Newsletter Editor	Jennifer Chapman
Website	Jennifer Chapman
Historian	David Samuel
Membership Chair	Dan Boudreau
CTTC Chair	Yves Savoie
Student Activities Chair	John Willden
Research Promotion Chair	Robert Hoadley
YEA Coordinator	Kevin Leger

Board of Governors

Michael Boudreau
 Mathieu Breau
 Luc Dugas
 Devin Harinarine
 Frederic Desjardins
 Robert McEwen
 Eric Leblanc
 Christopher Sanderson
 Kenneth Martin

August 2, 2012 Golf Tournament

80 golfers teamed up to compete for the many prizes. A BBQ sponsored by MacLeod & Grant Ltd raised \$ 362.00 for the junior golfers at the Moncton Golf and Country Club. Following the game, the participants and guests adjourned to Elks Club for a surf and turf meal 2-1/2 pound Bay of Fundy Lobsters and ½ pound steaks. Door prize raffle of \$ 417.00 as well as hole sponsorship amount of \$ 1,800.00 will go to ASHRAE Research Canada.



One of the teams that participated.



Taking a BBQ break at the Golf Tournament

2012 CRC AUG 24th to AUG 26th

A large delegation of NB/PEI Chapter members and their companions attended the 2012 CRC in Ottawa from Aug 24th to Aug 26th.



Dwight Scott, Chapter President receiving Chapter awards at the CRC.



Participants at the Social in the evening.



September 11, 2012 - Challenges of Climate Change:

Twenty four people attended a lively presentation by Carl Duivenvoorden of Northern New Brunswick, a Climate Change Expert and a Professional Speaker. The topic was Climate Change, a hot topic with cool solutions. He showed proof of the changes that are happening, why they are happening and what each of us can do in our corner to pause, rethink, reduce energy usage and look to renewable sources.

October 23, 2012 Past President's Night & 40th Anniversary of the Chapter:

Close to 100 people attended the 40th Anniversary Gala of the NB/PEI Chapter of ASHRAE. Society President Tom Watson of Staunton Virginia, was the guest speaker. He delivered his motivational presidential address, "Broadening ASHRAE's Horizons".

Special guests included Merrill Henderson, Deputy Mayor of Moncton, Lana Hansen, Deputy Mayor of Riverview, Isabelle Lavoie, Director and Regional Chair of Region II of ASHRAE, Doug Cochrane of Toronto, member of ASHRAE's nominating Committee, Michael Lecompte, President of Montreal's Chapter and Mark Lawrence, President of Halifax Chapter.

2012 Emille R Leblanc Memorial Scholarship to a student of NBCC Building Systems Class.

Brandon Drake presented by John Willden Student Branch Advisor and Student Activities Chair



At the meeting, three of the original 35 charter members from 1972 attended and were honoured: Kirk Bavis of St Eduard-de-Kent, NB, Gary Clancy of Barachois, NB and Jack Clark of Tatamagouche, NS.



ASHRAE NB/PEI Charter Members with ASHRAE President: L-R: Jack Clark, Tom Watson, President of ASHRAE and Kirk Bavis.



Past Presidents at 40th Anniversary Gala (L-R): John Willden (2009), Ken Martin (2005), Terry Steeves (1977-1978), Dwight Scott (2007, 2012), Gary Hoadley (1978-1979), Gary Fahie (1990), Gerry

Waselynychuk (1988), Dave Cowen (1986), Tom Watson (ASHRAE President), Dave Potter (1981), Kirk Bavis (1972), Jean-Guy Bernard (1982), Steve Tweedy (1996), Fred Desjardins (2006), Kevin Clannon (2011), Grant Bourque (1984), Gary Blue (1984), Chuck Edwards (2004), Dan Boudreau (2008), Luc Dugas (2000,2003), Bob McEwen(2010), Alyre Gallant(1998), Missing from Photo is Rod Collins(1994).

November 13, 2012 Students Activities Night:

NBCC Saint John Tour

This technical tour was attended by 31 members which included 8 BoG members, 18 NBCC Moncton/Fredericton students and faculty and 5 members from Saint John area. NBCC's E Building which is designed to meet Leadership in Energy and Environmental Design (LEED) was the facility toured.

Dwight Scott thanking Bill Stroud for the tour.



November 18, 2012: Social – Moncton Miracles Basketball Game

It was an entertaining Sunday afternoon watching a game between Moncton Miracles & Oshawa Power. All proceed were donated to ASHRAE Research.

December 11, 2012 Research Promotion Night:

This was a technical presentation on Selection & Specifying Control Valves & Dampers by Clark Campbell of Belimo Americas sponsored by Controls & Equipment. This useful presentation was attended by 24 participants.

At this meeting 5 new Chapter members were recognized.

January 8, 2013: Shale Gas Exploration:

Twenty six people attended the presentation by Marc Belliveau, Director of Communications, Department of Energy & Mines. The topic was “Responsible Environmental Management of Oil and Gas activities in New Brunswick”. It started with an overview of the drilling activities in New Brunswick, pilot drilling activities, pilot production activities, regulatory framework that are in place, environmental impact assessment, how the public is informed at every stage, revenue possibilities etc.

February 12, 2013: Displacement Ventilation

This was a presentation by Samuel Frenette of Price HVAC Industries of Winnipeg. 28 people attended this presentation. Theory and considerations of Displacement ventilation, Design procedures, Benefits and Application and some case studies were presented.

March 10, 2013: Afternoon with the Cats:

An interesting afternoon watching a game of Hockey between Moncton Wildcats and Halifax Mooseheads.

March 12, 2013: UNB Head Hall Renovation Tour:

The Technical Tour was attended by over 70 participants comprising ASHRAE members, APEGNB Fredericton Branch members, NBCC Fredericton Building Systems Technology students and instructors, UNB students and staff, NBCC Moncton students and members from CFB Gagetown.

An overview of the ongoing UNB’s Energy Management program was shown with areas of success by UNB in leveraging incentive programs with an overview of Head Hall Retrofit and savings realized were shown. It also included a tour of Chiller Plant, Server Room AHU/multi-zone VAV, Roof level Energy Recovery System etc.



(L-R) Tom Gilmore, UNB Energy Manager, Carman Travis, MCW Maricor Consultants, Tim Cross, UNB Energy Management, Brent Godbout, Efficiency New Brunswick, Dwight Scott, President ASHRAE NB/PEI Chapter, Bruce Good, UNB HVAC Supervisor.

April 18, 2013: ASHRAE CTTC Webcast – 9th Annual

This was a webcast on Assessing Building Energy Performance at NBCC.

April 23, 2013: Commissioning, Operating and Maintaining Air to Air Energy Recovery Equipment:

The presenter was an ASHRAE Distinguished Lecturer, Hoy Bohanon P.E., Director of the Carolinas region of Working Buildings, a Professional Service organization for commissioning services.

24 participants attended this presentation which explained the types of Air to Air Energy Recovery Systems in the field, various commissioning issues, operating and maintaining guidelines and re-commissioning recommendations.

Dwight Scott presenting a gift to ASHRAE Distinguished Lecturer Hoy Bohanon on April 23 2013.

**May 14, 2013: High Induction Diffusers:**

18 Participants attended this presentation by Daniel Lauzon, President of NAD Clima of Montreal. He explained its principles, construction, advantages and limitations of this very popular European concept. Using these type of diffusers also qualifies for LEED points.

June 11, 2013: Dumont Energy Centre Tour

30 people turned up for this Technical Tour conducted by David McAlister and Frederick Bernard from MCW who were the consultants for this project. The project received 2013 Award for Recognition of Engineering Excellence in the Buildings category from the Association of Consulting Engineering Companies, NB. The 3 x 700 BHP Steam Boilers(2 run by natural Gas and one as back up by Oil), 400 TR Heat Recovery Chiller, 500 TR & 100TR Chillers for seasonal loads, 3 Diesel Generating sets for standby power for essential loads were inspected, including a walk around tour of the Service Tunnel that carries all piping/ducting work.



Dwight Scott presenting a gift to one of the tour guides, Frederick Bernard of MCW.

June 14, 2013: History Publication

Chapter Historian, David Samuel P.Eng., and Chapter President, Dwight Scott P.Eng., visited the High Field Pumping Station in Moncton along with Ensor Nicholson P.Eng., Director of Water Systems, City of Moncton. The Pumping Station has completed a 100 years in operation. Based on the information collected at the site a History Article written by David Samuel has been published in the Herring Choker June Supplement. This is available at the Chapter website.

June 22, 2013: Kitchen and Lobster Party

An enjoyable evening of fun, food and fellowship at the Captain Dan's Bar & Grill at Point-du-Chene Wharf.





Dwight Scott, Chapter President presented some gifts to Brett Judson, Owner of Captain Dan's and City Grill for his association with the ASHRAE NB/PEI chapter for over 20 years.



2012-2013 Scholarships

Glen Cowan Memorial chapter scholarship to a child/spouse a chapter member.

Kevin Clannon presenting the Scholarship Cheque to Katelyn.



University of New Brunswick:

Université de Moncton: Frederic Renald Dulcos of Campbellton Campus.



Dwight Scott, Chapter President handing over the Scholarship to Cara Bostwick at NBCC Fredericton.

NBCC Saint John: Mark Watson

Mark Watson receiving his scholarship cheque from Doug Scott, Instructor at NBCC Fredericton.



2013 – 2014 President Camille Chevarie

Executive

President Elect: Mike Boudreau
Vice-President: Dwight Scott
Treasurer: Frédérick Bernard
Secretary: Sharlene Innes
Membership: Dan Boudreau
Research Promotion: Rob Hoadley
Student Activities: Dwight Scott
Historian: Devin Harinarine
CTTC Chair (Programs): Kevin Clannon
Newsletter/Website: Jennifer Chapman
YEA Coordinator: Kevin Leger
Grassroots Government Activities: Luc Dugas
Refrigeration: Frederic Desjardins

Board of Governors:

Pierre Comeau, Eric LeBlanc, Ken Martin, Robert McEwen, David Samuel, Yves Savoie,
Chris Thompson, John Willden

September 10, 2013 Topic: Data Centre Cooling

Our challenge according to Marc Naccache, P.Eng. is to meet the growing cooling demand without increasing the energy footprint. In the past decade, we have seen a few key HVAC innovations that have helped reduce energy requirements of data centres. The presentation highlighted the various factors that contribute to the ECM motors in a data center application, how to measure efficiency in



Marc Naccache, P.Eng.

data center applications, the technology of EC motors and applying the technology in different environments.

Native from Montreal, Marc Naccache graduated in Mechanical Engineering at the University of Sherbrooke in 1997 and made his first internship at Enertrak. Marc is a member of the Order of Engineers of Quebec and ASHRAE. After working at Nortel he worked in Dubai for telcos in wireless services and software security, server farms and returning to Enertrak as Business Development.

October 8, 2013 - Energy Recovery from Waste Water

The presentation was by Rick Lawlor P. Eng. LEED® AP of International Wastewater Systems. The presentation highlighted the various factors that contribute to the research and implementation of new and sustainable energy sources. In recent years this research had discovered that society injects billions of BTUs /Joules /KW-HRS into water that is ultimately discarded.



1. Sewage is a reliable and ever-increasing “free” energy resource.
2. Sewage energy-exchange technology is available to leverage the energy opportunity of sewage-wastewater.
3. Sewage energy-exchange technology can provide a cost-effective and environmentally-friendly means to augment building heating, cooling, and domestic hot water systems.

November 12, 2013 - New Generation of Water Source Heat Pumps

Lonnie Minarich from Climatedmaster on Hybrid Geothermal System and Single Pipe.

The presentation explained the ground- loop heat pump system, Surface- water heat pump system and geothermal hybrid system and design tools.

The hybrid system combine traditional loop design, combine with fluid coolers/cooling towers in cooling load dominant situations and combine with condensing boiler/solar heating technologies in heating load dominant situations. The single pipe system was compared to the hybrid system.



December 10, 2013 - Real Estate

Jan Keirstead of Century 21. Presented the various factors that contribute to the trends in Greater Moncton Real Estate and Housing Market.

Changes in the Industry which included Technology, Financing, Home Inspections, Mold, Asbestos and failing well water tests.

There are changes in the financing rules where home buyers must have a down payment of at least five percent of the home purchase price and Canadians can now borrow a maximum of 80 percent of the value of their homes when refinancing.

The RRSP Plan allows homebuyers to borrow up to \$25,000 from their RRSP for a down payment. Home Inspections are highly recommended. Housing market drivers and outlook were also discussed

**January 7, 2014 - Mechanic's Lien Act**

Jeffrey R.F, Delaney spoke on the Mechanic's Lien Act.

He also had a very informative handout.



February 11, 2014 - Investing

Shawn Connors of Scotia Macleod spoke about retirement. When we retire, we will have multiple sources of income. Instead of the one income we are accustomed to, we will be withdrawing from our savings, and living within a budget.



He discussed the 5 key risks to retirement income: Longevity, Inflation, Health Care, Asset Allocation.

Shawn also mentioned the Rule of 72. Rule 72 is where you can calculate based on your interest rate how long it takes for your money to double.

March 11, 2014 - Dehumidification for Natatoriums and Ice Rinks



Roger Nasrallah from Enertrak presented the various factors that contribute to indoor pool designs, such as heating and dehumidifiers.

When designing a pool our design goals must be to protect the building, save energy, provide comfort such as temperature, humidity and IAQ (Indoor air quality).

Moisture through the wall, condensate on windows and heat loss can damage buildings.

The IAQ has a large impact on human health parameters such as bacteria, viruses, fungi etc. When designing the system it must have the optimum ventilation, temperature and relative humidity. Water temperature, treatment and area must also be considered.

A pool cover can save 20% on building heating, 30% on pool chemicals and 40% on water heat.

For more details consult the March 2014 Herring Choker on the NB/PEI Chapter website.

April 8, 2014 - Commissioning Tips, Tricks and Techniques

ASHRAE Distinguished Lecturer T. David Underwood made a comprehensive presentation on Commissioning. The presentation answered these questions:

What is commissioning?

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 (OPR).

Why commission a project?

What is the outcome of commissioning?

Who is the appropriate commissioning authority?

What are essential documents for getting started?

What is the value for owners?



May 7-8, 2014 - MEET Show

Distinguished Lecturer, Dennis Knight, gave two seminars. Wednesday morning's presentation on Integrated Building Design drew a record 72 people, including NBCC students from Fredericton and Moncton. Thursday afternoon, Dennis offered a very useful seminar on an Integrated Personal Management System. Both these presentations, complete with slides and speaker's notes are posted on our chapter website. The ISPM presentation is generic, and can be useful for anyone who needs help in getting things done efficiently.

At the Industry Dinner Wednesday evening, Innovation Awards were presented on behalf of each of the four sponsoring groups. Congratulations to Neptronic for the SKD Direct Multi-Steam Injection Humidifier with Integrated Re-Evaporator, winner of the ASHRAE NB/PEI Innovation Award.

Scholarships

Our chapter funds seven scholarships each year. At Wednesday's seminar, the NBCC-F scholarship was presented to Colin Murphy.

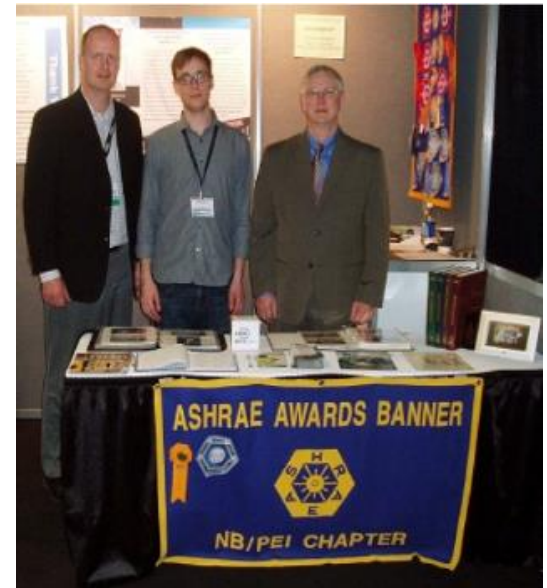


Shelby Gallant, who had received the Emile R. Leblanc scholarship earlier at NBCC-M was also introduced. Errol Persaud, Dean of Technology at NBCC, sponsored a coffee break before the seminar.

Colin Murphy, Shelby Gallant, Dennis Knight, Errol Persaud

Just prior to Thursday's seminar, Nick Hooper received the NB/PEI Chapter Scholarship. Nick graduated from UNB-SJ this year and is continuing to the Dalhousie Law School in the fall. Nick's dad, Bill Hooper, our chapter president in 1988-89, was also present.

Bill Hooper, Nick Hooper, Dennis Knight



June 10, 2014 - Technical Tour of Cormier Village Sports and Cultural Centre.

Report on Technical Tour to Cormier Village Cultural Centre

Eleven people visited the Cultural Centre in the Cormier Village EcoParc, about an hour east of Moncton. The centre, which was opened in June 2012, is a wonderful gem of clever design which takes good advantage of some sustainability energy strategies. Laurie McGraw from Cormier Village, who has been on the local committee from the beginning, gave us a tour, and Paul Arsenault of energiea.inc, the consultant on the project, provided some useful technical information. Among the integrated design strategies and systems examined were the following:

Passive Solar

Building Construction -- ICF blocks (Insulated Concrete Forms

Ground source heat pumps with twelve wells

In-Floor Heating and Cooling

Fan-Coil Units --which can react quickly to heating/cooling demands.

A solar-wall air-heating collector is mounted on the south wall.

A flat plate collector and an evacuated tube collector are roof-mounted

Mini-Split -- A wall-mounted mini-split heat

Lighting - Fluorescent and dimmable LED pot lights.

This new 7000 ft² centre replaced an older structure which burned some three years earlier. Previously, the cost for heating oil alone for the former center was approximately \$17,000 per year, with electricity being a separate amount. Today's building has total year-round operating costs of approximately \$4500 per year – all of this electricity.



Flat-plate on left Evacuated tube on right

Solar wall air-heating collector on right side of photo.

2014 – 2015 President: Mike Boudreau

Executive

President Elect: Eric LeBlanc

Vice-President: Camille Chevarie

Treasurer: Sharlene Innes

Secretary: Dominique Allard

Membership Chair: Kevin Leger

Research Promotion Chair: Robert Hoadley

Student Activities Chair: Dwight Scott

Historian: Devin Harinarine

CTTC Chair (Programs): Kevin Clannon

Newsletter Editor: Dwight Scott

Webmaster: Jennifer Chapman

YEA Coordinator: TBD Grassroots Government Activities Chair: Luc Dugas

Refrigeration: Frédéric Desjardins

Board of Governors:

Frédéric Bernard, Pierre Comeau, Dan Boudreau, Eric LeBlanc, Ken Martin, David Samuel, Chris Thompson, Yves Savoie, John Willden

2014 Chapters Regional Conference (CRC)

This year's conference was organized by the London Chapter, and was held August 22-24 in Grand Bend, ON.

Our delegation: Mike Boudreau, Delegate and President, Sharlene Innes, Alternate and Treasurer Eric LeBlanc, President-Elect, Devin Harinarine, Historian, Dwight Scott, Student Affairs Committee Chair, Dan Boudreau, 2016 CRC General Chair

Unfortunately the picture available was not good quality and has not been published here.

2014 Golf Tournament July 31 Moncton Golf and Country Club

There was a full field of 18 teams on the course at the Moncton Golf and Country Club. The pre-game BBQ sponsored by MacLeod and Grant and A.O. Smith, raised \$289 for Junior Golf. Thanks to Jim Morris and Terry Weir who grilled honey garlic and Italian sausages and burgers to perfection. Jim and Terry also were busy later in the kitchen of the Moncton Elks Club, where a delicious steak and lobster supper with all the trimmings was provided.



If anyone can provide a better picture please send it to me, johnwillden@gmail.com

POKER CHALLENGE FOR STUDENTS

This is intended to be a fun exercise to help newcomers meet a few chapter members.

When chapter members sign in for the meeting, they will each receive a few playing cards. The students and other newcomers are encouraged to introduce themselves to as many members as possible before 5:50 pm. After each introduction, they are to randomly take a card from that member and print the person's name and occupation on the face of the card.

At 5:50 pm, the poker round is ended, and the person with the best natural poker hand (no wild cards) will get a free meal at the next meeting. If there is a tie, duplicate prizes will be awarded.

September 9th, 2014 - Deliver Excellence in Facilities Management with a Limited Budget

Membership Promotion Night, Robyn Ellis, RVC for Student Affairs, Region II.

Currently, Robyn is an ASHRAE Regional Vice Chair for Student Activities for Region II and member of Technical Committee 7.3 on Operations & Maintenance for ASHRAE.

The presentation highlighted the various factors that contribute to Facilities Management such as Facilities Portfolio, Strategic Planning Cycle for FM, IFMA Competencies, and Emerging Trends in FM.



The Facilities Portfolio describes the limited resources such as capital budget, infrastructure and operational cost of the facilities and how they can be managed. The strategic planning cycle explain the various steps to accomplish the mission which included the strategies, measures & targets, results, goals and desired outcomes to deliver excellence in facilities management with limited resources.

October 14th, 2014 – Control Valve Applications

Clark Campbell, CET, is Belimo's District Sales Manager for Eastern Ontario & Atlantic Canada. The presentation was at the Sirocco Restaurant.

Clark has worked in the valve industry for forty years, sizing and specifying control valves for all types of process applications.

Four types of control valves were discussed.

Manual Circuit Balancing Valves only work at maximum flow. As valves close in the system the excess flow is directed to other valves with lower pressure drops.

Pressure Independent Valves provide dynamic balancing by maintaining constant flow regardless of differential pressure drop.

Electronic Pressure Independent Valves (Flow Feedback Only) provide:

- no need for balancing valves
- no need for balancing labour or rebalancing of the system
- better control of VFD speed with one pressure sensor

- increased efficiency at the boiler and chiller plant level

Energy Valves (BACnet read/write capability) provide:

- energy metering and control valve in one while maintaining dT
- power control, which directly controls the desired parameter (power)
- setting power output to a specific value in a linear response. Coil and valve characteristics become irrelevant. Coil control is now both pressure and temperature independent (i.e., 30% increase in signal = 30% increase in power. We can measure BTU's; therefore, control by BTU's.

Presentation topics included:

- Problems Caused By Control Valve Overflow
- Effects of Valve Authority
- Pressure Independent Valves
- BTU Monitoring and Control

November 18th, 2014 - Oil Free Magnetic Bearing Compressors for Chillers

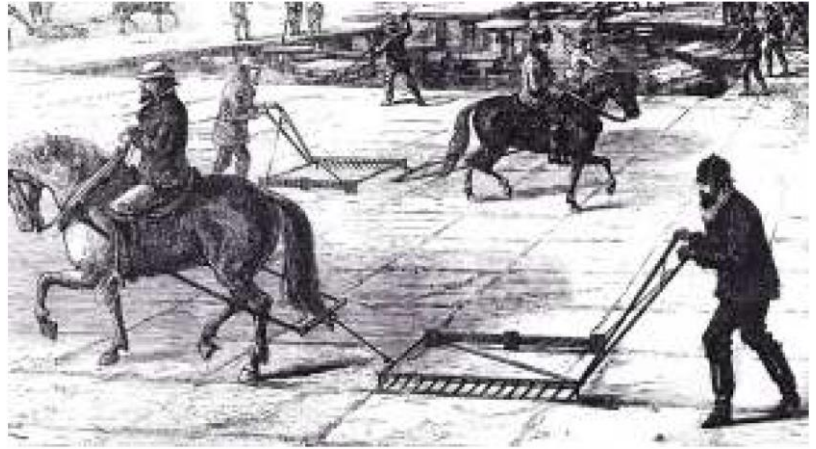
Jose Alvares currently holds the position of Director of Sales for North, Central, and South Americas for Danfoss Turbocor Compressors. He has over 19 years of experience in the global HVAC and refrigeration industry. The presentation was at the Sirocco Restaurant.

The advantages of the oil free magnetic bearing compressors is higher efficiency and long life. The world's first oil-free magnetic bearing compressor for the HVAC industry delivers high efficiency and low sound levels in a compact footprint. Industry leading performance is achieved by using oil free, magnetic bearings that provide world class efficiency and zero performance degradation over the life of the compressor. Permanent magnet motors and variable speed drives provide unmatched full and part load efficiency. The motor is integrated into the compressor and uses the refrigerant for motor cooling.

ASHRAE Guest Speaker at University of New Brunswick

The Chapter Research Promotion Chair, Rob Hoadley, was invited as a guest speaker at the 10th Mechanical Engineering Graduate Student Conference at the University of New Brunswick. The presentation took place on November 12 at Head Hall, on the Fredericton campus of UNB.

The presentation began with a description of the history of ASHRAE and the origins of the HVAC industry in North America. The role of ASHVE and ASRE (the founding societies of ASHRAE) in conducting research regarding HVAC topics was integral in developing the rules of thumb and standards we used today. Many of the students were not aware of the origins of air conditioning and refrigeration, early forms of building heating, or even the effects of the energy crisis of the 1970s on building design.



An image, showing lake ice harvesting, an early form of refrigeration.

December 9th - Annual Christmas Social

Past Presidents
Night / Research
Promotion Night

Rogues Gallery of
Chapter Past-
Presidents in
attendance at the
2014 Christmas
social. Held at the
Sirocco Restaurant



Chapter President Mike Boudreau (right) presents Systemair with a certificate recognizing the company as the Top Donor to the chapter's 2013-14 Research Promotion campaign. The NB/PEI Chapter raised over \$13,000 for the ASHRAE Research Promotion campaign, an all-time high for our chapter.



January 13th, 2015 - High Induction Diffusers/Student Night

Andrew Nader from a Master Groups line made a presentation on high induction diffusers (HID).

To improve thermal comfort, a European technology of high induction diffusers is introduced. These diffusers not only achieve ultimate comfort but also provide energy savings and helps buildings achieve LEED certification.

February 10th, 2015 – Dedicated Outdoor Air Systems

Membership Night

Approximately 30 members attended the meeting on February 10 at the Sirocco Restaurant. Brad Matheson, Commercial Sales Manager for Atlantic Canada with Enertrak, provided an hour-long presentation on Dedicated Outdoor Air Systems. The presentation sparked a lively discussion on the various forms of dedicated outdoor air systems, the applicability of American-designed codes in Canada's cold climate, and the best situations for each given form of energy recovery.

Anthony Jonkov, the Region II Regional Vice-Chair (RVC) for Research Promotion also provided a short presentation on ASHRAE's research program. Our chapter was shown to be above-average with regards to research fundraising.

March 10th, 2015 Fan System Effects

What are system effects? How do they affect system design and fan selection? How can we mitigate system effects? This presentation was given by Grant Wolters. Grant graduated from the University of

Minnesota with a degree in Mechanical Engineering. He has worked with Twin City Fan and Blower as a Commercial Sales Application Engineer since 2012.

April 14th, 2015 - Construction Features of Refrigerated Spaces including Load Calculations

Ron Vallort, Distinguished Lecturer and Presidential Member made a comprehensive presentation that addressed the need for refrigerated buildings throughout the world for preserving food and pharmaceutical products. Ron explained the various stages of project development of a refrigerated warehouse including the dialogue between designer, owner, and operator. He also described the unique design details of a refrigerated warehouse and presented a brief load calculation for a refrigerated space.

Ronald P, Vallort, P.E., is President of Ron Vallort and Associates, Ltd., a consulting engineering company. He is a graduate of the University of Illinois with more than 40 years of worldwide experience in mechanical and overall building design and is a recognized expert in refrigeration systems and refrigerated buildings.

May 12th, 2015 BOMA and ASHRAE Joint Meeting

Grassroots Government Activities Night

This night at the Crowne Plaza was Refrigeration Night / Research Promotion Night was a joint meeting with the local BOMA chapter.

The Future of Electricity in New Brunswick and the Upcoming Transformation"

Speaker Michel Losier, P.Eng. Program Director PowerShift Atlantic

Michel is the Program Director of Powershift Atlantic; a Natural Resource's Canada, clean Energy Fund project, led by NB Power. New Brunswick Power is focused on a Reduce and Shift Demand Strategy working with Siemens on Smart Grid.

A Smart Grid is an intelligent, self-monitoring, highly automated power supply network that can be better controlled than a conventional system.

Smart communicating thermostats; energy smart appliances; self-serve options for energy shifting or payment; information dashboards Backgrounder and modern energy thermal storage devices will all be part of the customer experience once Smart Grid enhancements are made to the system.

June 9th, 2015 Cleaning Up

The final meeting of the 2014-2015 year was a technical tour of the Greater Moncton Sewerage Commission in Riverview. The buildings are interconnected by service tunnels which link underground equipment rooms and allow access to all parts of the facility.

The sanitary sewage is initially collected from Moncton, Dieppe and Riverview, with a large tunnel passing under the river.

Then a pumping station, located some 30 metres below ground, pumps the collected sewage to the inlet building where it passes through bar screens and then to aerated grit chambers.

Finally it flows to three settling tanks (clarifiers) which allow suspended particles to settle to the bottom and the outfall is discharged to an outfall located downstream in the Petitcodiac River.

Meanwhile, liquid sludge from the clarifiers is dewatered in centrifuges and after lime stabilization, the bio solids are suitable for use as a soil additive.

Scouts Canada Tree Planting

ASHRAE NB/PEI sponsored Riverview Scouts to plant apple trees as part of Scouts



Canada's sustainable communities' initiative. These two apple trees were planted in Riverview's Riverfront Park on 21 June 2015.



R. Glendon (Glen) Cowan, P.Eng., was one of the chapter's Board of Governors when the NB/PEI Chapter of ASHRAE was chartered on October 13th, 1973. A retired consulting engineer, his career spanned over 50 years. He passed away on July 19, 2015. Two of his sons, Andrew and David, have also held executive positions within the chapter at various times.

2015 – 2016 President: Eric LeBlanc

Executive

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Newsletter Editor: Mark McGinnis
Webmaster: Jennifer Chapman
YEA Coordinator: Dominique Allard
CRC 2016 General Chair: Dan Boudreau
Grassroots Government
Activities Chair: Ken Martin
Refrigeration Frédéric Desjardins

Board of Governors:

Pierre Comeau, Dan Boudreau, David Samuel, Yves Savoie, Camille Chevarie, Luc Dugas, Matthew Peachman, Ryan Gosson, Daniel El-Khoury, Terry Thibodeau

July 31, 2015 - ASHRAE GOLF TOURNAMENT

We fielded 15 teams of golfers (60 golfers) who played at the world renowned Moncton Golf & Country Club At a balmy 30°C.

Jim Morris and Terry Weir from McLeod & Grant ran the lunch barbeque which was sponsored by A. O. Smith. The barbeque raised \$326.00 for Junior Golf.



Two teams tied for an amazing – 11 score but without the use of computers or calculators.

NB Low Team – Glen Close, Dave Cowan, Neil Black, Ryan Reid

NS Low Team – Victor Belliveau, Josh Bushie, Peter Melnyk, Scott Moore

The Longest Drive was by Josh Bushie

Closest to the pin was Victor Belliveau

The dinner featured a 2 lb. lobster and a 1 lb. steak with all the trimming. Jim Morris ran the kitchen.

Special thanks to the following members who volunteered their time before, during and after the golf tournament:

Jim Morris – McLeod and Grant

Terry Weir – McLeod and Grant

Luc Dugas – MCW Maricor

Jennifer Chapman – Aquavap Indotec

August 21, 2015 - Hamilton CRC

Attending from the NB/PEI Chapter were:

Eric Leblanc (President)

Sharlene Innes (President Elect)

Mike Boudreau (Vice President/Research
Promotion Chair)

Dwight Scott (Past President, Membership
Chair)

Matthew Peachman (Board of Governors)

Daniel El-Khoury (Board of Governors)



Matthew Peachman (BOG), Sharlene Innes (PE), Dan El-Khoury (BOG), Eric Leblanc (President), Mike Boudreau (VP, RP), CRC 2015, Hamilton, ON attending the CRC Friday night welcome party & network.

At the Presidential Working Lunch James Vallort stood in for Society President David Underwood (Canadian) delivering the Presidential Theme, “Making Connections”. Dave's address can be found at: <https://www.ashrae.org/society-groups/meet-the-board/2015-2016-bod>

The Awards Luncheon on Saturday saw the NB/PEI Chapter bringing home awards for Research Promotion, thanks to Robert Hoadley's efforts during 2014-15 as Research Promotion Chair for our Chapter. Congrats Rob!

September 10th, 2015 – Equipment Noise Commercial Noise Control

Presented by: David Aquilina, P.Eng. Products Manager and Acoustician for Kinetics Noise Control, Inc.

Unwanted noise emanating from HVAC systems is becoming a greater factor in achieving occupant comfort and satisfaction.

Properties of noise and sound

Sound power and sound pressure

Logarithmic addition

Subjective reaction to changes in L_p

The sound spectrum and A-Weighting (dBA)

Condensing the spectrum: NC level

Silencer Parameters, Insertion Loss, etc.

Performance testing: ASTM E477

Sound Source Paths

Acoustic calculation indoor and outdoor

Plenums, Sound barriers



Case Studies – Evaporative Cooling Towers – Rooftop Condensers

October 13th, 2015 - Building Information Modeling

Mark explained what Building Information Modeling (BIM) is and showed us specific examples of how this new process is transforming design & construction. He elaborated on the benefits of 'data-rich' 3D models and how they can be leveraged over the lifecycle of a project. The various benefits to building owners, architects, engineers, contractors and facility managers were highlighted and we were treated to a virtual reality demonstration using a VR headset & gaming controller to navigate the rooms and corridors of a building model he had developed himself. (Very cool!)



Mark Doyle is a BIM Specialist at CBCL Limited responsible for BIM coordination & development throughout the company. Using software such as Revit and Navisworks, Mark provides 3D coordination models to design teams to aid in the design process.

Mark offered to stay another day in Moncton and presented to the Building Systems class at NBCC Moncton.

November 17th, 2015 CSA B52, ASHRAE 15, and Refrigerant Safety

Presented by: Shawn Slaunwhite currently in the role of Commercial Sales Manager in Atlantic Canada for Daikin North America LLC, he is directly responsible for the products in Daikin's Light Commercial Portfolio, including Rooftops and VRV equipment. Shawn has extensive training around design, application and installation of VRV (VRF) Systems, as well as compliance to ASHRAE 15 and CSA B52.

How to Design Code Compliant VRV/VRF System:

Preliminary layout of system

Determine amount of refrigerant

Verify that the VRV system layout complies with CSA B52 requirements

Actions if room is too small

If Compliance is not achieved in the first 3 steps there are four Actions that make up the fourth step for Compliance:

Review Refrigerant Piping Design

Increase Room Volume

Relocate, Remove/Combine IDU's

Reduce Refrigerant Charge by Splitting Systems

When implemented correctly the steps taken to design a code compliant VRV/VRF systems results in additional benefits:

Equipment Cost Savings

Reduced Installation Materials

Reduced Installation Labor

Increased Comfort and Efficiency



December 8th, 2015 - Christmas Social Meeting - Ellen Tucker on Travel Trends

Past Presidents, Research & Promotion and History Night at the Elk's club on Main Street.

Ellen Tucker, President of Freedom Travel, shared her love of travel for over 30 years. Fifteen years of which she has hosted the television program "All About Travel" on CBC-CHSJ GLOBAL.

**January 12th, 2016 – Students Night**

Specifying BACNet Systems with guest speaker Andrew Lavoie, Energy Analyst at MCW

Location: Five Bridges Bar & Grill

Riverview

This presentation was primarily focussed on specifying BACnet requirements and the issues encountered, especially with networking and third party interfaces.

We also talked about specifying BACnet for a few types of equipment such as Diesel generators, lighting and humidifiers, along with issues encountered during implementation & commissioning.

We discussed where BACnet was headed and future security considerations.

There was a record turnout of students due to the “free first meal deal”.

NBCC Moncton Student Chapter 'Tours the Tunnels' - January 29th 2016



The student chapter of NBCC Moncton arranged the tour, filled out the forms and took lots of pictures.

The host was Perry Eldridge of Mount Allison University Technical Services. Perry is an Alumni of NBCC Moncton who has an encyclopedic memory of all things Building Systems.

The tour started at the campus map mural, following on to a main control screen, then to the boiler plant and the tunnels. We also toured the ultramodern fine arts building and the pool service area. The tour showed the students how much effort was needed behind the scenes to operate a 47 building campus.

February 9th, 2016 Climate Change Regulation and the Next Generation of Refrigerants



Presented By: Mike Thompson Global Leader of Refrigerant Strategy, Ingersoll Rand

Mike talked about the Global HFC regulatory status October 2015 and the timeline of HFC phasedown regulations and proposals.

He also listed considerations for a new refrigerant and presented new definitions for “slightly flammable” refrigerants.

What about natural refrigerants like CO₂?

February 19-21, 2016 - YEA Leadership Weekend

The ASHRAE NB-PEI Chapter was represented at the spring 2016 YEA Leadership Weekend in Austin, Texas, by Daniel El-Khoury & Shelby Gallant.

YEA Leadership Weekend is an opportunity for the future leaders of ASHRAE to learn more about Society, develop soft skills and network with other young professionals. This event included segments on understanding your own personality, leadership development, communication techniques and ASHRAE leadership opportunities.

February 25, 2016 - Resurgo Place Tour

YEA and Student Members took a free guided social tour of the Moncton Museum and Transportation Discovery Centre compliments of ASHRAE NB/PEI Chapter.

Attendees (left to right):

Maryse (tour guide), Daniel El-Khoury (YEA Chair), Jordan McKinley (NBCC), Zach Spike (NBCC), Nick Vienneau (NBCC)



March 9th 2016 - Technical Tour of Grimross Brewing Co. Fredericton

Grimross is a craft brewery founded in 2013. The brewery opened a new production facility in Fredericton in 2015. Brewer Martin Henderson opened the doors of the brewery production facility, and explained the beer-making process from sacks of malt and hops to samples of the finished product. Mr. Henderson focused the tour on the production process and pointed out the specific plant components of interest to mechanical engineers. The evening concluded with a meal and a social hour with plenty of opportunity to continue sampling the finished Grimross product." Our chapter was well represented by these svelte gents: Rob Hoadley, Zack Spike, Ben Rondell, Denis Melanson, Kevin Watson, Trevor Mason, Andy Brown, John White, and Daron Thomas, A second guest from Thomas Industrial Sales, Barry Marchand, Pat Deluca, James Handrahan and Jarret Steele

Grimross Brewer Martin Henderson explains the brewing procedure.



April 14th, 2016 - The ASHRAE Building Energy Labeling Program presented by Distinguished Lecturer: WILLIAM P. BAHNFLETH, PH.D., P.E.

The presentation provided an overview of the bEQ program and compared it to other building certification programs. It also outlined the benefits of certification, and summarized the current status of the bEQ program and plans for the future.

In 2009, ASHRAE introduced its own "Building Energy Quotient" (bEQ) labeling program for new and existing buildings. It is a comprehensive and rigorous program comprising an energy use performance scale and tools for performing ratings and certifications for the qualified energy modellers' who will use them.



Dwight George Scott**Sept 12, 1941- May 24, 2016**

The ASHRAE NB/PEI Chapter remember Dwight as the unofficial welcoming committee, the tireless organizer, always the committee chair to ensure a seat at the CRC, the first to volunteer to help with any task that needed doing.



Dwight would greet and network with those present and was usually the first contact with ASHRAE they had. He would beeline across the room to introduce himself and welcome the new people.

Always the planner, he was responsible for multiple June Lobster excursions out of Cocagne, the Chapter's 40th anniversary celebration with a visit from the ASHRAE president, Christmas socials and almost all of the Past President's nights for the past 12+ years.

Never a loud man Dwight would try to command attention at the monthly meetings or social gatherings by clinking a knife against a water glass, and more than once breaking the glass!

To his credit Dwight was not a well man by most people's standards, on kidney dialysis daily and I will quote the Rev. Dr. James MacDonald who said during the celebration of Dwight's life "he made living with dialysis look easy."

Dwight was Past President of the chapter twice, Historian, CTTC Chair, Membership Chair, Student Activities, Newsletter Editor, unofficial welcoming committee and countless other subcommittees. Dwight even picked the hymns for his own celebration of life and also requested the menu for the lunch afterwards.

How many times was it said and by different people over the years "What would we do without Dwight?" We all have fond memories of our time with Dwight at various events, CRC's and social gatherings. Fondly remembered!

President Kevin Clannon, CET
Chapter Past President 2011-2012
Chapter Historian 2015-2016

MEET Show Distinguished Lecturer Ronald E. Jarnagin, Principal Owner

RLK Technical Consultants, LLC



May 18th, 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 LEEDTM NC Gold as well as LEEDTM 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. Ron Jarnagin's presentation focused on the

design and construction process, the systems installed in the building and preliminary building performance results. The team reviewed what worked and what were major surprises.

May 19th, 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. Ron Jarnagin chaired the initial AEDG for small offices as well as two additional guides. He also offered perspective on the partnership that contributed to the guides, the intent of the guides and how practitioners can apply the guides.

June 21st - Year End Social at Five Bridges, Riverview

June 24 – 30, 2016 LeaDRS Summer Conference Experience Report - St. Louis, Missouri - Sharlene Innes

Attending the leaDRS program at the Summer Conference 2016 in St. Louis Missouri helped Sharlene place our Chapter operations into context of the inner workings of a worldwide society. The positive and energetic vibe of the conference was contagious, and inspired her upcoming year as Chapter President. See her report in the September 2016 issue of the Herring Choker.

June 25-29th 2016 ASHRAE Annual Conference in St Louis, MO

July 28th, 2016 ASHRAE NB/PEI Golf Tournament(rain or shine)

The tournament was held at the Moncton Golf and Country Club rain or shine, in Riverview.

The Dinner was held at the Elk's Club, in Moncton.

There was a 12:30 Shotgun start and this year there was a BBQ lunch, sponsored by A O Smith, with all proceeds going to junior golf.

August 26-28th : 2016 ASHRAE Region II CRC Chapter Regional Conference in Moncton, NB

The conference was held in Moncton this year and sponsored by the NB/PEI chapter. Dan Boudreau was the CRC organizer and used his wide ranging skills to pull off this major event.



2016 – 2017 President Sharlene Innes

President Elect: Robert Hoadley
Vice-President: Eric LeBlanc
Treasurer: Camille Chevarie
Secretary: Yves Savoie
Membership Promotion Chair: Ryan Gosson
Research Promotion Chair: Eric LeBlanc
Student Activities Chair: John Willden
Historian: Kevin Clannon
CTTC Chair (Programs): Matthew Peachman
Newsletter Editor: Mark McGinnis
Electronic Communication: Mike Boudreau
YEA Coordinator: Daniel El-Khoury
CRC 2016 General Chair: Dan Boudreau
Grassroots Government Activities Chair: Terry Thibodeau
Golf Tournament: Gerry Waselynychuk



Board of Governors:

Jennifer Chapman, Pierre Comeau,
David Samuel, Devin Harinarine,
Shelby Gallant

September 8th 2016 Energy Labels for Homes

President Elect Rob Hoadley appeared before the legislature's select committee on climate change in Fredericton on September 8th to make recommendations on establishing regulations for the energy efficiency of homes in New Brunswick and on adopting the latest National Energy Code. Please follow this link to read a summery posted by CBC:

<http://www.cbc.ca/news/canada/new-brunswick/climate-change-committee-fredericton-1.3752844>



September 13th, 2016 Student Night

Air Curtains: Energy Savings & Occupant Comfort

Stephen J. Benes has been regional sales manager with Berner International for 20 years and in the HVAC industry for over 30. He currently oversees the Commercial / Industrial, Material Handling, Dock / Door and Food service distribution channels, and manages several OEM accounts.

Stephen's presentation provided an overview of how air curtains contribute to occupant comfort, energy efficiency, and indoor air quality when the door is open. He explained how air curtains work, applications, controls, and how to select and install. He also reviewed how air curtains improve whole building energy efficiency versus conventional methods.



October 18th, 2016 Geothermal



Sustainability Night

Marc Belanger is a Product Specialist for geothermal products & accessories, responsible for sales, marketing & training for both residential & commercial applications. Marc graduated with honors from John Abbott College in Energy Management Technology. He is a certified geothermal designer and has held board positions with the International Ground Source Heat Pump Association, the Earth Energy Society of Canada and the Canadian Geo-exchange Coalition.



November 8th, 2016 Refrigeration Night, Water Sourced VRF Systems

Jocelyn Léger, P.Eng., CEM, LEED® AP Commercial Sales Manager – HVAC

Division, at MITSUBISHI ELECTRIC SALES CANADA INC.,

Jocelyn has an experience of 7 years in the field on the Mechanical Contracting side and 17 years as an equipment specialist on the HVAC Design & Manufacturing side. He is passionate about efficient HVAC designs & equipment, Green and Net Zero Energy Buildings, Sustainable development and Energy Modeling.

The presentation offered an overview of the Water-cooled VRF concept, components, heat pump and heat recovery systems as integrated with a range of heat sink formats including geothermal. The overview also describes how to ensure optimal annual performance and comfort levels through strategies based on maximizing heat recovery.

December 13th, 2016 Finances / Taxes - Past Presidents Night / Research Promotion Night

Julie Comeau , CPA, CGA - Financial Analyst Maritime Door & Window Julie is a passionate Chartered Professional Accountant with over 15 years of progressive experience helping individuals and businesses of all sizes better understand and manage their financial activities. Julie's presentation covered three components of personal finance:

Learning the ten healthy habits of financial management
Self-assessing your level of financial fitness
Obtaining resources to help get your financial house in order



January 10th, 2017 Cooling Tower Technology

Kevin Clannon, CET, ASHRAE NB/PEI Past President

Kevin is Senior Applied Sales with Master Group, where he has been for the past 13 years. Kevin enjoys several hobbies including sporting clay shooting, cooking and wine making. Along with being involved in ASHRAE Kevin is also a scout leader and avid outdoorsman.

February 20th 2017 Chapter Meeting - Condenser Water Heat Recovery

Distinguished Lecturer Julian R. de Bullet

ASHRAE Standard 90.1 now requires us to consider condenser water heat recovery for large projects. Julien presented the details of designing condenser water heat recovery including load sizing, and controls. He also looked at several different methods of recovering the heat and analyzed their pros and cons. Examples of successful applications and life cycle analysis were offered.



Student Seminar - Chiller Plant Design Fundamentals - Distinguished Lecturer Julian R. de Bullet

March 14th, 2017 BACnet Networking Systems - Andrew Lavoie CET

Andrew Lavoie is a Graduate of NBCC Moncton in Electronics Engineering Technology - Communications and also attended the Southern Alberta Institute of Technology (SAIT) in the area of microprocessor technology. Andrew's career in HVAC Started with AEM, primarily Installing and programming Building Automation Systems (BAS), and then eventually gravitated to the HVAC Consulting business in which he has been working for the past 27 years. Currently Andrew is employed with MCW Maricor. The presentation covered The ABC's of BACnet Objects on the Network.



**April 11th, 2017 - The New Legionella Standard:
ANSI/ASHRAE 188-2015 'Legionellosis: Risk
Management for Building Water Systems'**

ASHRAE Distinguished Lecturer Patricia Graef, P.E.

Patricia Graef, P.E., Fellow ASHRAE, LEED GA, is senior Engineer, Munters Corp., Fort Myers, Florida.

The session provided an overview of Legionella bacteria, its source, how it is amplified, how it is transmitted and who is susceptible. There was a detailed look at the standard and what is required for its application. Specific topics included legionella bacteria control measures, health care facility requirements, requirements for adopting a Water Management Program for specific devices such as cooling towers, ornamental fountains, spas, etc., elements of a Water Management Program, and designer requirements.

**May 9th, 2017 The Essential role of Indoor Air
Quality in Patient Outcomes**

Dr. Stephanie Taylor, principal at Taylor Healthcare Commissioning, Inc. Physician-Led Consulting, received her MD from Harvard Medical School, Boston, Massachusetts in 1984. For the next several decades, she practiced clinical medicine and did academic research in cellular growth mechanisms.

Two significant trends are occurring in this century: people spend more and more time indoors, and the incidence of chronic disease is higher than ever before. How can indoor air management support occupant health and not promote chronic illnesses? In her presentation she helped us understand the current Indoor Air Quality environment. She presented new research findings on the relationship between indoor air management and patient infections in hospitals. The Micro-biome Study will be presented with new data. (in press 2017)

**June 13th, 2017 End of Year Social, Research & Promotion Investor and Past
President Recognition at the Alma City Club**

July 27, 2017 Golf Tournament (rain or shine)

Moncton Golf and Country Club, Riverview, NB

Dinner - Elk's Club, Moncton, NB

12:30 Shotgun start

BBQ Lunch with all proceeds going to Junior Golf - Sponsored by A O Smith

One person on each team must be an ASHRAE Member!

2017 – 2018 President: Robert Hoadley

Executive

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Golf Tounament: Gerry Waselynychuk



Board of Governors:

Devin Harinarine, Shelby Gallant

Message from Chapter President – Rob Hoadley

2016-17 was another successful year for our NB/PEI Chapter. We were fortunate to have Sharlene Innes serve as our first female Chapter President. Under her guidance, we were able to set another all-time chapter high in Research Promotion fundraising, collecting over \$16,000 for HVAC research in Canada. I'm very grateful to Sharlene for her work towards this, as well as our many donors who realized the value in ASHRAE Research and gave generously to the campaign.

2017 CRC Montreal

The 2017 ASHRAE Region II Chapter Regional Conference (CRC) was held from August 25-27 at the ALT Hotel in Montreal. Nine members of the NB/PEI Chapter attending as part of our delegation. Rob Hoadley and Yves Savoie were the Chapter Delegate and Chapter Alternate respectively, and attended CRC business meetings and caucuses.



September 26, 2017 Smart Grid and Smart Buildings



Distinguished Lecturer Dr Tom Lawrence Ph.D

Dr Lawrence presented the smart grid concept and how the smart grid connects to smart buildings.

The future of electricity distribution in North America is based on some form of smart grid.

The primary purpose of the smart grid is to even out the load so that we don't build more power plants just to service the peaks.

The smart grid allows two way flow of electricity when small distributed power generation like photovoltaic and wind becomes a significant source of power. Electric vehicle charging and HVAC systems will need to integrate with this new way of distributing and using power.

His presentation on the smart grid and smart buildings is especially important in New Brunswick as NB Power and Siemens prepare to rollout their smart grid innovations across the province.

October 17, 2017 The Saint John Regional Hospital Energy Retrofit

Presented by Robert Hoadley, P. Eng, NB/PEI Chapter President

Robert presented the Saint John Regional Hospital Energy Retrofit. This ongoing project is meant to modernize this almost 40 year old building's heating and cooling systems. This project has been nominated for an ASHRAE Technology Award after having been recognized at the Regional level. The Saint John Regional Hospital Energy Retrofit project was undertaken to modernize the facility's chilled water and heating water systems.



Modifications were made to the system, and new control strategies were added to maximize energy performance. Robert reviewed lessons learned from the project, as well as operator experiences with the new system.

November 14, 2017 Refrigeration Night

NB/PEI ASHRAE hosted Alain Mongrain of the Montreal Chapter of the Refrigeration Service Engineers Society. As a licensed Refrigeration Mechanic, Alain has over 33 years' experience in the commercial and industrial HVACR industry. Alain has spent the past 7 years working for Emerson Commercial & Residential Solutions' Climate business.

Alain's presentation on naturally occurring refrigerants was of high interest to the members in attendance. In it he covered a broad range of topics such as the various refrigeration system architectures, system applications, contractor/installation processes and component technologies using CO2 and ammonia.



Social Event Recap - November 30, 2017 - Pizza & Pool

We had a modest turnout of YEAs at the fall social event this year. In attendance we had chapter President-Elect Yves Savoie, past YEA chapter chair Kevin Leger, and current YEA chapter chair Ben Roundell. A few last minute cancellations added up and we didn't get the anticipated numbers turning up. We met at 6 o'clock at the upper Mountain Road Pizza Delight for a bite to eat and a couple drinks then moved over to the Dooley's in back around 7:30 for a few rounds of cutthroat pool.



December 12, 2017 Christmas Social

Past Presidents and RP Donor Night

Top Donors:

Controls and Equipment Ltd
Global Mechanical Systems Ltd.
Advanced Energy Management Ltd.
Systemair
Mechanical Contractors Association of NB. Inc
Victaulic Company of Canada Ltd.
Source Management
Donors:

MCW Maricor - MCW Consultants Ltd
Crandall Engineering Ltd.
East Coast Sheet Metal Ltd.
Aquavap Indotec Agencies
Master Group
Scan Air Balance Ltd.
JF Taylor Enterprises Ltd.
Macleod & Grant
Enertrack
Wolseley Mechanical Group
Argyll Associates Ltd.
Brunswick Sheet Metal Ltd.
Rae Mac Agencies Inc.
Sharlene Innes
David Samuel
Kevin Clannon
Camille Chevarie
Eric Leblanc
Robert Hoadley
Daniel Boudreau

January 9, 2018 Refrigeration Night

Kevin Bregel is a Systems Sales Account Manager with Trane Atlantic in Saint John, NB. He is also a member of the ASHRAE NB/PEI chapter.

Kevin reviewed the Kigali Amendment to the Montreal Protocol. The HVAC industry is preparing for the global phase down of hydrofluorocarbon refrigerants and working to implement the next



generation of refrigerants, hydrofluoro-olefins, hydrochlorofluoro-olefins, and HFO blends. The Kigali amendment aims to reduce the global use of high Global Warming Potential HFCs to prevent up to 100 billion tons of CO₂-eq emissions by 2050, and avoid up to 0.5 degree C of warming by 2100.

We reviewed the global HFC phase-down timeline established by the Kigali Amendment. We then compared the refrigerant options available today, and discussed what to consider with the transition to lower-GWP refrigerants.

Social Nights

February 10th chapter president Rob Hoadley hosted a social night at the Aitken Centre in Fredericton, NB. The event was well attended by local members, and had a good student turnout as well. The game was between the University of New Brunswick V Reds and the Dalhousie University Tigers. The home team V Reds defeated the Tigers 4-1.

February 24th at 4PM, chapter VP Dan Boudreau hosted ASHRAE NB/PEI Chapter Afternoon Out with the Cats at the Moncton Coliseum. The game was between the Moncton Wildcats and the Drummondville Voltigeurs. The Voltigeurs edged the Cats out 5-4.

February 28, 2018 Bjarne Olesen, Ph.D., Fellow ASHRAE, Presidential Visit - Casino New Brunswick



Bjarne Olesen, Ph.D., Fellow ASHRAE is ASHRAE's President for the 2017–2018 term. Olesen has previously served on the Board of Directors as Treasurer, Vice President and Director-at-Large. In Olesen's theme, "Extending our Community," he focuses his theme on three directives: extend our global community; extend our technological horizons; and extend our value to members.

"Many of our members are

only active on one side – either the technical side, mainly at the Society level, or the grassroots side at the local chapter level," Olesen said. "However, one side cannot live without the other. We will work to extend our global connections and more strongly link our members worldwide. Doing



so will strengthen our Society's knowledgebase, community reach and ability to shape a more sustainable world."

Society President Bjarne Olesen presenting the Glen Cowen Memorial Scholarship to Trinity Gallant of NBCC Moncton's Architectural Program.

March 20, 2018 Seismic Design and Issues



Lee Chiddention, HVAC Market Manager, Kinetics Noise Control

Lee presented some industry changes in Seismic for MEP, and highlighted how Seismic is handled differently in other markets. He noted how we have given clarity to the Canadian code for Seismic in the Ottawa market.

His hope is that we can start to build a clear set of guidelines in the Moncton market regarding Seismic restraint to make sure everything is being restrained not only to code but consistently across the board.

YEA Leadership Weekend – Washington

Ryan Gosson (Membership Promotion Chair) and Ben Roundell (YEA Chair & Newsletter) were able to attend. Ryan sponsored through the chapter and Ben through Region II.

The weekend began Friday afternoon with some ice breakers and getting to know the instructors. This is a soft skills building seminar, and for many of us that meant going out of our comfort zones and introducing ourselves to everyone rapid fire succession.

Over the course of the weekend we learned a lot from our instructor Ralph Kisson, a P. Eng and life coach from British Columbia. Ralph used a brand of self-analysis to catalyse the group to grow and learn how we as individuals work, interact with each other, and think differently. We learned about different styles of leadership and what kind of leaders we as individuals might gravitate towards becoming.

May 2 Moncton Coliseum - Why Buildings Matter and the Future of Energy Performance**May 3 Moncton Coliseum - ASHRAE 90.1 - Past, Present and Future Energy Code Requirements****June 11, 2018 June Social Barbecue! Rob Hoadley - Presidents Message**

Hello, and Happy Summer to everyone. After an eventful year, we've reached the month of June, and therefore the end of my term as President of the Chapter.

I will be succeeded by Chapter President-elect Yves Savoie. Yves and I have worked together on ASHRAE business since we both attended the Young Engineers in ASHRAE Leadership Weekend in Fall 2009 in Atlanta. I have full confidence in his abilities to lead our Chapter and build on our previous successes.

Whatever success I have had personally as Chapter President has been completely dependent on the help I've received from the volunteers on our Chapter Board of Directors. These men and women scheduled our chapter meetings, arranged visits from dignitaries and distinguished lecturers, payed the bills, and did all the small day-to-day tasks required to run a local ASHRAE Chapter. It would not have been possible to do all these tasks on my own. I'm grateful for everyone's help.

JULY 26, 2018 Golf Tournament (rain or shine)

BBQ Lunch with all proceeds going to Junior Golf - Sponsored by A O Smith

Golf at Moncton Golf and Country Club, Riverview - shotgun start

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

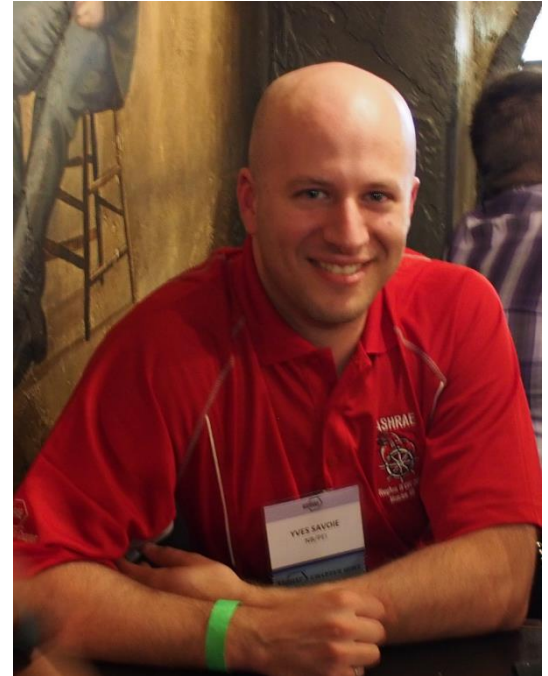
Dinner at Elk's Club

August 24th to the 26th, 2018 CRC in Windsor

Message from the President – Yves Savoie

Welcome to all ASHRAE NB/PEI members to another year of technical programs and social events! We are kicking off the year with ASHRAE Distinguished Lecturer Chris Mathis returning for another visit, after having spent 4 days with us earlier this year in May for the MEET Show.

This year's program will feature diverse and relevant topics to our industry, and I invite all our membership to attend our meetings. Our meetings are open to all, and you are welcome to bring a friend or colleague who may be interested in ASHRAE. 2017-18 was a successful year for our NB/PEI Chapter.



We were fortunate to have Robert Hoadley serve as the first Chapter President from Fredericton, and the first son of a Chapter Past President, Gary Hoadley. Following his role as Chapter President, Robert has accepted a position in ASRHAE as the Regional-Vice Chair of Government Affairs for our region, which spans from Windsor, ON to Halifax, NS. He will be responsible for establishing ASHRAE as a leading source of expertise in the built environment and as a resource for policy-makers at the provincial and federal levels of government. Please join me in congratulating and supporting Robert in his new position, and in thanking him for his service to the Chapter!

2018 – 2019 President: Yves Savoie

Executive

President Elect: Ryan Gosson
 Vice-President: Dan Boudreau
 Treasurer: Shelby Gallant
 Secretary: Chantal Daigle-Verrier
 Membership Promotion Chair: Kevin Bregel
 Research Promotion Chair: Dan El-Khoury
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 CTTC Chair (Programs): Matthew Peachman
 Newsletter Editor: Jason El-Khoury

Electronic Communication: Mike Boudreau
YEA Coordinator: Ben Roundell
Grassroots Government Activities Chair: Jarrett Steele
Refrigeration Chair: Harold Gallant
Golf Tournament Chair: Gerry Waselynychuk
Government Affairs (Regional Vice-Chair, Region II): Robert Hoadley

July 26, 2018 - ASHRAE Golf Day

The day was once again held at the infamous Moncton Golf and Country Club. The afternoon started under cloudy skies at 12:30 pm with a slate of 72 golfers taking part in this classic annual event.

If you arrived early, you were treated to a barbecue for lunch hosted by the team of Jim Morris and Terry Weir of McLeod and Grant Ltd. The barbecue was sponsored by A.O. Smith with all the proceeds going to the junior golf program at the club.

The afternoon was perfect for golf as we were overcast most of the day with a little liquid sunshine making its way to the course for three or four holes.

The winning team consisted of Scott Moore, Victor Belliveau, Josh Bouchie, Jeff Burrell, our neighbors from the great province of Nova Scotia.

Noteworthy Golf Tournament Highlights

The longest drive went to Mark Harris.

Closest to the hole (women) went to Tabatha

Closest to the hole (men) went to Victor Belliveau

The meal which featured steak and lobster was again prepared by Jim Morris and Terry Weir of McLeod and Grant Limited.

Our president, Yves Savoie, P.Eng introduced his volunteers who were now holding various positions within the chapter. We wish Yves a successful year running the chapter.

We would like to thank the following:

Our hole sponsors and Luc Dugas, P.Eng. (coordinator)

Jennifer Chapman, Jim Morris, Terry Weir, Luc Dugas who again this year were flawless in organizing the golf day

Our membership who supported the event. We are planning next year's golf day already and I can hope it will be just as successful as this year's event.

Finally our thanks go to ASHRAE NB/PEI Golf Tournament Chair Gerry Waselynychuk CPMR for a flawless and organized event.

August 8, 2018 Meeting #1

A planning meeting for the 2018-19 was held at the Moncton North East Construction Association (MNECA).

September 17, 2018 - #2 Efficient Windows and Fenestration Technologies

Distinguished Lecturer, Chris Mathis from Mathis Consulting Company in Asheville, NC gave several presentations in Moncton. He arrived on the Monday and made three presentations to the NBCC students in the Civil Engineering Technology classes. He presented to three different classes at NBCC:

1. Energy Efficiency in Commercial Buildings
2. Energy Efficient Window and Fenestration Technologies
3. Energy Efficiency in Residential Buildings



We drove Chris back to his hotel so he could rest up for the technical presentation to the chapter at the Alma City Club.

His evening presentation was "Efficient Windows and Fenestration Technologies". Chris was a real trooper and took this overload of presentations in stride.

October 9, 2018 - #3 Radiant Heating/Tube Heaters

Bertrand Voinot is the Eastern Canada Regional Sales Manager for Schwank.

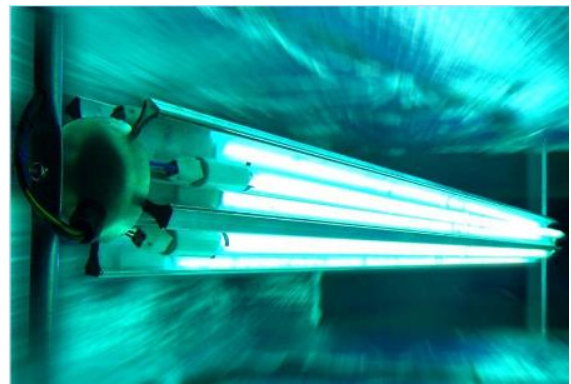
At the Alma City Club he presented how infrared technology works, how it creates better heating comfort, and why it consumes less energy.

His presentation covered the sun principle, comfort temperature vs air temperature, zone heating, cost reduction, better environment, intensity, radiant efficiency principle –ANSI/ASHRI 1330 and Infrared factor, applications, and outside heating.

**November 13, 2018 #4 UV Air Purification for Cannabis Facilities**

[Robert Renaud](#) has been the Canadian Sales Manager at Sanuvox Technologies for 15 year.

His presentation covered indoor Air Quality, Germicidal effect of UV, natural outdoor environment, UV Dosage inside Buildings, Residential applications, Safety concerns, independent studies, and Commercial applications.

**December 11, 2018 #5 - Social - Past Presidents Social and Christmas Party****2018 Scholarship Update**

The scholarships given out in 2018 were:

Emille R. Leblanc Memorial Scholarship (\$1000) for a student in NBCC Moncton's Building Systems Class. This award was won by André Michaud, a student in the Building Systems Class at NBCC Moncton.



Awards of \$1000 were also given to a NBCC Saint John Student and an NBCC Fredericton student.

January 8, 2019 #7 - Ice Plant Refrigeration and Arena Ventilation

Kevin Bregel – Refrigerant Update

February 12, 2019 #8 - Tour Eco 360 Biomass Plant and Generator

We met at the Eco360 Education Centre and tour the site of Southeast Eco360's biomass boiler and landfill gas electricity generator.

Alma City Club for meeting and meal.

March 12, 2019 - Mechanic's Lien Act Changes

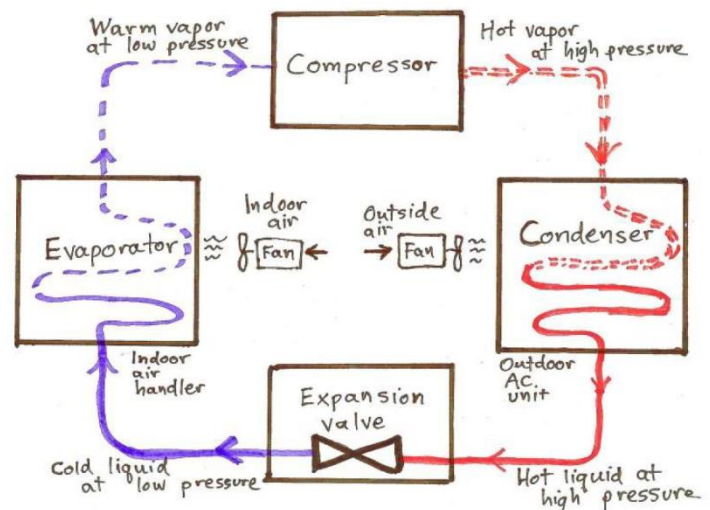
Location Alma City Club



April 9, 2019 - ASHRAE Distinguished Lecturer

Ivan Belleveque originally from France, graduated from different schools (notably the French institute of industrial refrigeration) and got several diplomas along the way as the BAC energy engineering, BTS refrigeration engineering and the superior diploma of industrial refrigeration.

Ivan is now a product manager with Master group since 2012. He is notably in charge of training and technical support for installations all across the country.



Ivan Bellevegue touched on the refrigeration process and cover the function of the expansion valves, hot gas bypass valves, evaporating pressure regulators, head pressure valves and crankcase pressure regulators.

May 14, 2019 - Arc Flash in Mechanical Equipment

Location: Alma City Club

June 18, 2019 - Social

This was our regular end of year function at the Alma City Club in Moncton. We had a special BBQ dinner to celebrate the arrival of summer and the end of another successful year for our chapter. There was plenty of chicken and ribs!

Obituary

William L. McNamara, P.E. 85,
Life Member ASHRAE; Fredericton, N.B., Canada;
Joined ASHRAE in 1967.



John Maclean, P.E.
78, Member ASHRAE, Moncton, N.B., Canada; joined ASHRAE in 2007.

Melanie Belliveau, P.Tech.

33, ASHRAE Associate, Memramcook, N.B., Canada; joined ASHRAE in 2014.



August 23, 2019 - Halifax - ASHRAE Region 2 CRC



This year's regional conference was in "Canada's Ocean Playground" of Halifax, Nova Scotia. It attracted ~100 professionals in the HVAC&R industry from Eastern Canada. The conference included business meetings, technical advancement opportunities, the president's address, and a premier networking social event.

2019 – 2020 President Ryan Gosson

Executive

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Vice-President: Yves Savoie
Treasurer: Kevin Clannon
Secretary: Chantal Daigle-Verrier
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September 10th 2019 - Tour of Dumont Hospital



Mike Boudreau, past chapter president and Operations Manager at East Coast Sheet Metal, gave our members a tour of the 185,000 ft² surgical suite addition to the Georges Dumont Hospital.

The addition includes an impressive 60,000 ft² mechanical room. Thank you to our tour guide and everyone who came out!

October 8th 2019 - Rules of Thumb for Troubleshooting

Distinguished lecturer Erich Binder is an independent engineering consultant with experience in mechanical and cold weather systems. The first presentation was to NBCC Building Systems students and the main presentation was at Alma City Club.



November 12th 2019 - Why Zero Carbon?

An Introduction to CaGBC's Zero Carbon Buildings Standard for Commercial, Institutional and Multi-Family Buildings in Canada

Lara Ryan is the Regional Director, Atlantic for the Canada Green Building Council.

Lara presented to the Building Systems Students as well as Construction Management and Architectural students at NBCC Moncton.

To avoid the worst effects of climate change we need to drastically cut back on the emissions of buildings. To achieve this goal, new buildings must set zero carbon emissions as their target. Retrofits of existing buildings must likewise emphasize deep emissions reductions.

CaGBC has launched the Zero Carbon Building Standard – to prioritize the pursuit of zero emissions today. The Zero Carbon Building Standard is a made-in-Canada solution to achieving our climate change commitments, providing a path for both new and existing buildings to reach zero carbon.

November 26th 2019 - Society President Darryl Boyce Visit

Society President Darryl Boyce, P. Eng, Fellow, Life Member, a Canadian Engineer brought his presidential address to our Past-President's Night, RP Donor Recognition Night, and History Night at Casino NB.

People must succeed within the buildings we create. ASHRAE is committed to preparing building professionals through learning opportunities, engagement and adopting better practices. These are the steps needed to achieve effective operational performance and operator experience.

Several ASHRAE Scholarships were presented at the event.

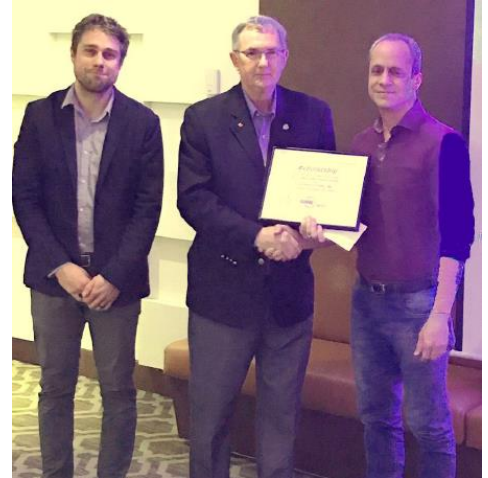
2019 Scholarship Update

Emille R. Leblanc Memorial Scholarship (\$1000) for a student in NBCC Moncton's Building Systems Class. This award was won by a mature student Luis Lima originally from Brazil.

Here is Ryan Gosson Chapter President and Darryl Boyce ASHRAE President presenting the Emille R. LeBlanc Memorial Scholarship to Luis Lima.

An award for relative of a member went to Randy Keiser from PEI.

A \$1000 award for a student of HVAC went to Kazeem Shittu at Holland College in Charlottetown.



The Glenn Cowan Memorial Scholarship



The Glenn Cowan Memorial Scholarship for \$1000 was awarded to three recipients this year:

ASHRAE President Darryl K Boyce presenting to Noah Dugas.

Logan Ford (Ryan was to present and take photos)

Tyler Travis (photo in January Choker)

January 14, 2020 - NB Power's Energy Efficiency Initiative

Alma City Club

**February 1, 2020 - Wildcats Hockey Game vs Charlottetown**

Location: Avenir Centre

Mathieu Breau, Gary Hoadley and Luis Lima

NBCC Students Nick Brake and Rae Stephenson checked out the Zamboni.

**February 11, 2020 - Panel Discussion - HVAC Systems Balancing**

Location: Alma City Club

March 10, 2020 - High Velocity Low Speed Fans

Location: Alma City Club

April 14th 2020 - Pool Dehumidification

Alma City Club – **cancelled** due to Covid 19 Pandemic

May 6th 2020 - MEET 2020: Sustainability

What Should Drive the Sustainability Bus?

Moncton Coliseum– **cancelled** due to Covid 19 Pandemic

May 7th 2020 - MEET 2020: Thermal Comfort

Using Thermal Comfort Tools to Evaluate Enclosure Design Choices

Moncton Coliseum – **cancelled** due to Covid 19 Pandemic

May 10, 2020 – Video Meeting - Skype

Discussion of new budgets effect on new calendar year.

June 9, 2020 – Video Meeting - Skype

Discussion of presentation of new Executive / Board

2020 – 2021 President Kevin Leger**Executive**

President Elect: John Willden

Vice-President: Ryan Gosson

Treasurer: Kevin Clannon

Secretary: Brandon Cosman

Membership Promotion Chair: Kevin Bregel

Research Promotion Chair:

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Grassroots Government Activities Chair:
Refrigeration Chair:
Golf Tournament Chair: Gerry Waselynychuk
Government Affairs

September 14, 2020 – Kitchen Ventilation

Yann Cousell is the Outside Sales Manager for CaptiveAire. He made a virtual presentation on commercial kitchen ventilation. Yann covered ventilation design principals, improved fire suppression technologies, advanced make up air solutions, prefabricated ductwork and versatile kitchen controls.



October 14, 2020 – Dynamic Air Quality Solutions



Joe LeForte is an indoor air quality professional with Dynamic Air Quality Solutions where he is responsible for commercial sales and engineering support for the Northeastern United States and Eastern Canada.

His presentation centered around dynamic air cleaning. The filter media is charged with electricity and is able to capture particles as small as 0.1 micron. This is similar to an electronic air cleaner but without the ozone. The trade-off is that the filter will eventually fill and need to be cleaned or disposed of

November 24, 2020 - EQ is the new IQ

Karine Leblanc made a great presentation on how to use emotional intelligence (EQ) to become a better person at work and at home. We went through the meaning of emotional intelligence, and the 4 different skills and strategies to improve EQ.

Karine Leblanc received her Bachelor degree in Mechanical engineering from ecole de technologie supérieure, an engineering school in Montreal, Canada. She has been winning awards for her exceptional service ever since.



December 2, 2020 – Regular Planning Meeting

December 8, 2020 – Christmas Social – Chapter Jeopardy

Fly your desktop high resolution screen down the internet to ASHRAE History for some competition, some reminiscing, and some good stories. This all-social evening is brought to you by well you, the volunteers.



The picture above is past presidents of the ASHRAE NBPEI chapter. How many can you name? I know I can name about half of them ... let me see, Myself, Ken Martin, oops, Dwight Scott ... etc. etc. etc.

January 12th, 2021 Electrification – Thermal Storage

Mark M. MacCracken, P.E., Pte. LEED Fellow, Distinguished Lecturer

Mark is VP of the CALMAC Portfolio for TRANE.

Electrification has recently become a widely accepted roadmap towards the goal of a low-carbon future.

Mark explains that the power has to come from somewhere and that somewhere must be low carbon or no carbon.



Electrification does get the carbon burning away from the building but to minimize carbon we must gain an understanding heat pumps, “free cooling” and thermal energy storage’s relationship to them.

The talk covered the multiple value streams of using thermal storage for heating and cooling in an all-electric building.

Region 2 Job Fair

A huge thank you goes out to Mai Anh Dao of the Montreal Chapter for organizing a big ASHRAE related job fair. The actual system that allowed job seekers to meet with employers was Premier Virtual out of the United

States. An example of Mai Anh Dao’s work is here.

Virtual ASHRAE Region II Career Fair



Tuesday, February 23rd, 2021



Premier Virtual - Virtual Career Fair Platform
<https://premiervirtual.com/>



9 AM - 7 PM

**THIS IS A GREAT OPPORTUNITY FOR STUDENTS
TO CONNECT WITH LEADERS IN THE FIELDS OF:**

- Engineering and Engineering Technology
- Green Building and Sustainable Design
- Technical Sales (with focus on HVAC/R products)
- Consulting and Consulting Engineering
- Building Operations and Facility Management, and many more!

**TAKE THIS CHANCE TO NETWORK WITH
CHAPTERS FROM ALL ACROSS EASTERN CANADA:**

- Toronto Chapter
- Ottawa Valley Chapter
- Hamilton Chapter
- London Chapter
- Montreal Chapter
- Windsor Chapter
- Halifax Chapter
- NB/PEI Chapter
- Quebec Chapter

GET READY TO VIRTUALLY NETWORK!

**QUESTIONS?
CONTACT YOUR LOCAL CHAPTER!**



March 9th, 2021 HVAC Rules of Thumb for Trouble Shooting

Erich Binder RET is Chair of ASHRAE TC 9.2 Industrial Air Conditioning & Ventilation and has many years of experience in Cold Climate HVAC Design.

He reviewed several cases where rule of thumb is not the best design practice.

“It is expected that the engineer or technician using them is a professional who can use reason and exercise caution in their application.”



R.G. Cowan Memorial Scholarship



Kevin Leger, Chapter President gives Samuel Daigle-Verrier his R.G. Cowan Memorial scholarship for \$1000.

Samuel is a 4th year engineering student at université de moncton.

Note the social distancing due to Covid 19.

April 14th, 2021 IAQ and Cognitive Functioning in High Performing Buildings Distinguished Lecturer – Bryan Monk P.E.

Mr. Monk is an ASHRAE Distinguished Lecturer, and Part-Time Professor in the Faculty of Building Engineering at Vanier College. He is also a member of the IAQA (Indoor Air Quality Association)



Mr. Monk reviewed the commonly used design guides: the Ventilation Rate Procedure and the Indoor Air Quality (IAQ) Procedure. While the Ventilation Rate Procedure provided only a dilution solution to control offending contaminants, the IAQ Procedure provides a directed approach by reducing and controlling the concentrations of selected air contaminants through both dilution and enhanced air cleaning. There were 19 attendees.

Mr. Monk focused on the application of enhanced particle, gas-phase and biological filtration for compliance with Standard 62.1. The design aspects to consider were reviewed, with the focus on achieving acceptable levels of contaminants while meeting high-performance building standards.

2020-21 Dwight Scott ASHRAE Scholarship Recipient

Morgan Q. Blake of Fredericton, NB was awarded \$1400 Dwight Scott ASHRAE Scholarship.

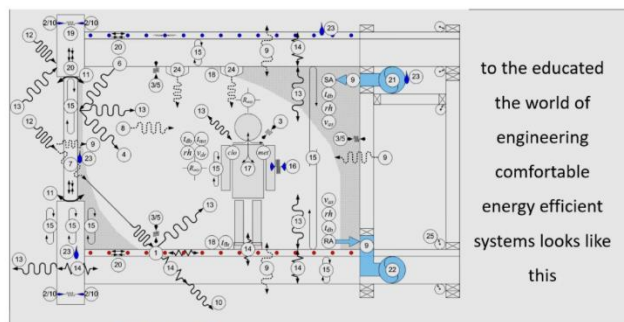
Morgan is a 4th Year Bachelor of Science in Engineering (Mechanical Engineering) at UNB in Fredericton.

May 12th, 2021 Using Thermal Comfort Tools

Using Thermal Comfort Tools to Evaluate Discomfort Probabilities Due to Enclosure Design and Choices in HVAC Systems

Robert Bean is director of www.healthyheating.com, and founder of Indoor Climate Consultants Inc. He is a retired engineering technology professional who specialized in the design of indoor environments and high-performance building systems.

cognitive consonance and literacy starts here



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Participants were taken through a case study where three enclosure performances and two HVAC system types were evaluated for compliance with ASHRAE Standard 55.

June 8th, 2021

Candace Colpitts, M.Sc.E. P.Eng. of RJ Bartlett Engineering Ltd., gave a presentation on the requirements of the 2015 National Building Code of Canada (NBC) specific to smoke, fire, and combination smoke/fire dampers. The presentation also contained specific scenarios and examples where the NBC waives the requirements of smoke, fire, and combination smoke/fire dampers.

**Outgoing President's Message**

I want to thank all our members for their continued support of ASHRAENB/PEI. In our first entirely virtual year, we had multiple meetings with Distinguished Lecturers (DLs) on a variety of topics. Since all meetings were virtual, we were encouraged to use more DLs and our region used the many of them. I would also like to thank the executive and board of governors for the hard work overcoming the challenges of a virtual program.

I want to wish success to our incoming Chapter President, John Willden, which has previously been president for the chapter. I also wish the new executive and board of governors a successful year, as we hopefully transition to in-person meetings again. I am confident that John and the new board will be able to provide a program that will interest all members.

Sincerely,

Kevin Leger

ASHRAE NB/PEI President - 2020/2021

2021 – 2022 President John Willden

Executive

President Elect: Kevin Clannon
Vice-President: Kevin Leger
Treasurer: Kevin Clannon
Secretary: Ryan Gosson
Membership Promotion Chair: Kevin Bregel
Research Promotion Chair: Kevin Leger
Student Activities Chair: Ted White
Historian: John Willden
CTTC Chair (Programs): Mike Boudreau
Newsletter Editor: Sarah Ferguson
Electronic Communication: Brandon Cosman
Grassroots Government Activities Chair: Robert Hoadley
Refrigeration Chair: Harold Gallant
Golf Tournament Chair: Jason Nelson



Incoming President's message

Thank you to all who contributed last year. We had nearly a full slate of programs in the middle of a pandemic!

This year I want to get some structure and scheduling into the way we do things. We will be focussed on schedule and programs. We're also going to try to stick to a meeting at lunch 12:00 – 1:00 and the presentation right after 1:00 – 2:00.

This year we are going to try to keep a two-week lead time between the choker and the presentation. The choker will have the details and Eventbrite will take registrations and send reminders as the meeting gets closer.

Part of the reason we were last-minute last year were the lack of backup. I would like to mandate that every committee prepare someone as a backup. This will help you get things done on the executive, will allow others to contribute and will help to find replacements when you decide to go. We still need a historian and a YEA chair.

We have a full slate of programs this year. This coming spring, we look forward to the return of the MEET show in May. The following October 22 we have the Chapter's 50th Anniversary.

The ASHRAE President this year is Mick Schwedler. Society's theme is "[Personal Growth. Global Impact. Feed the Roots.](#)"

I really encourage everyone to watch the video and think about who fed your roots.

Finally, I want to thank those that stepped up for this ASHRAE year. I expect we can do some great things and have fun doing it.

John G. Willden, P.Eng, Chapter President 2021-22

September 14, 2021 – Indoor Air Quality Science and Solutions

Scott Huffmaster will be giving a presentation on IAQ. Trane uses a holistic approach to building wellness that cultivates healthier indoor spaces, lighting, and acoustics.



October 12, 2021 – Programs and Energy Storage

by NB Power's Chantal Daigle Verrier and Blair Allen

Allen

Chantal Daigle Verrier, Technical Energy Advisor and Chapter member, provided an overview of current energy efficiency programs and then passed it on to



Blair Allen, Research Engineer, who took us through a

technical presentation on energy storage, specifically Battery Energy Storage Systems (BESS).

Blair Allen, P.Eng described Battery Energy Storage Systems (BESS), the different technologies and their installation considerations and advantages.



Blair answered several questions with order of magnitude estimates of a residential power system with battery and inverters. Blair is also a Technical Lead for the [Smart Grid Atlantic project](#).

The presentation had 35 attendees, a high for this year. Chantal was instrumental in getting the presentation set up.

ASHRAE Chapter Scholarship Winner

Kristine Girard, a student at U de M, from Dieppe, NB won a chapter scholarship.

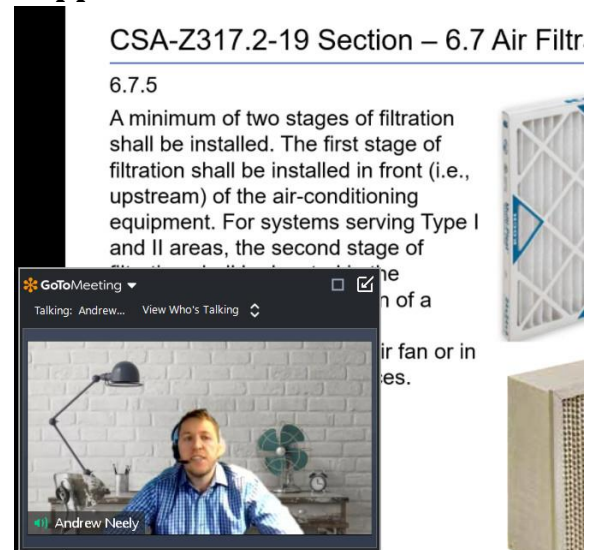
COVID-19 and Air Quality in Buildings: How to Protect Occupants.

November 9, 2021 - Air Handling Unit Designs and Applications

Andrew Neely, P. Eng, Account Executive - HVAC
Equipment Sales Building Technologies & Solutions

This presentation focused on standard CSA-Z317.2-19 which covers special requirements for heating, ventilation, and air-conditioning (HVAC) systems in health care facilities.

It was a comprehensive presentation with well-designed slides covering air filtration, energy recovery, recirculation flexibility, outdoor air intakes, energy recovery and heating and cooling.



December 14, 2021 – Financial Planning

Josh McWilliam, Certified Financial Planner

Josh graduated from Mount Allison University and began his career in the financial services industry in 2002. He established his own company in 2005 and has received numerous industry awards. He has been nationally recognized as a leader in the field.



Josh's presentation was comprehensive and covered many of the topics that concern today's professionals.

Josh showed how you can push your retirement a little ahead of 65 and still get your pension. You will suffer a lower pension payment but you will have the pension sooner. The break even analysis is part of Josh's presentation. You can find a copy of this on our chapter website under the History—Technical Session Archive.

January 1st - High-Performance Building Envelope Training

(English & French Sessions)

NB Power's Commercial Sector Energy Efficiency Programs offered a free, 4 part, High-Performance Building Envelope Training Series, for the commercial construction sector in New Brunswick. Chantal Daigle Verrier, a chapter member, was the contact for this training and we promoted it through our chapter newsletter, the Herring Choker.

The training was provided in English and French in separate events and represented a sponsorship of \$497/seat.

The program was delivered by a bilingual commercial construction company owner Philippe St-Jean. Phillippe is associated with Passive House Canada. The course began in late January with a 1 hour session, followed by three weekly sessions of two hour duration, covering building envelope, air tightness and thermal bridges.

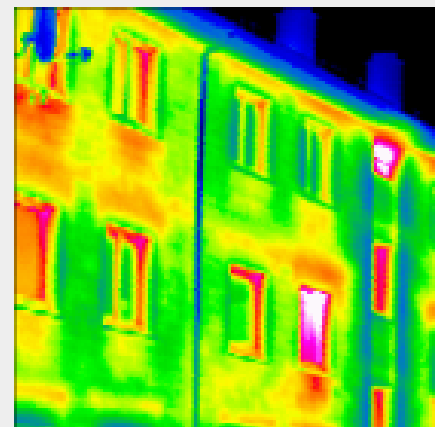


Priority was given to people in NB who had to make decisions about the building systems, and who were on the target list.



Philippe St-Jean is a certified Passivhaus designer and instructor, and a LEED BD+C Accredited Professional. He owns a commercial construction company based in Montreal and has worked in the construction industry for

over 10 years. He is currently revising the McGill University's design standards and construction processes.



January 11th, 2022 - Refrigerant Update – The Next Transition Has Begun

Kevin Bregel



This presentation provided an update on the global HFC phase-down timeline established by the Kigali Amendment to the Montreal Protocol. The presentation compared transitional and next generation refrigerants. Kevin summarized the drivers behind the new regulations and legislation for HVAC refrigerants.

Kevin then discussed the local and global actions being taken. He discussed the science behind why and how HVAC refrigerants are evolving.

Finally Kevin compared environmental impact, efficiency and safety of current and next-generation refrigerant

options

Kevin Bregel is a System Sales Account Manager with Trane Canada. Kevin is Membership Promotion Chair for the NB/PEI Chapter.

Scholarship to Holland College

We are pleased to share with you that the recipient of the 2021/2022 NB/PEI Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE) Award of \$1000 is Logan Dawson.

Logan is from Tyne Valley, PEI and is in the Heating, Ventilating, and Air Conditioning (HVAC) Technology program.



Dwight Scott Ashrae Scholarship 2021 -22 Recipient

Benjamin T. Vesey of Saint John, NB, received the Dwight Scott ASHRAE Scholarship of \$1,400.

Benjamin is in his fourth year bachelor of science in engineering (mechanical) at UNB Fredericton. And is on the 2020-21 Dean's List.

February 8th 2022 - Where Have All The Ethics Gone?

Richard H. Rooley (FREng FASHRAE, Presidential Member ASHRAE)



Each individual has a different approach to ethics, colored by their education, training, culture, trade, profession and nationality. Richard explained the commercial and cross-discipline drivers which have a great effect on ethics. He evaluated scenarios that challenges you, the practitioner to determine what's ethically right and what contravenes good ethical practice.

Richard H. Rooley is a Consulting Engineer in London, UK. He has designed HVAC systems and developed operation and maintenance procedures. He acts as an expert in litigation, and as an arbitrator and mediator in disputes. He has used teams of professionals, from inside and outside the HVAC industry.

March 8th, 2022 - IAQ and Cognitive Functioning in Healthy Buildings

Brian Monk General Manager, Carrier Custom Air Handling Solutions

Brian Monk presented a balanced approach to indoor air quality using ANSI/ASHRAE Standard 62.1, "Ventilation for Acceptable Indoor Air Quality."

ASHRAE (covid-19 guidance)

Variety of approaches – evaluate what works best for your condition(s)

Consider:

- Door Closer
- Ability to Monitor Room Pressure
- Limit Patient Transfers
- Ventilate and Terminal Clean Before Re-Use

ALL ROOM

OPTION 1.
Continuous low level mechanical supply
Exhaust supply, continuously controlled to maintain

OPTION 2.
No direct flow (loop-flow)
Continuous supply to exhaust
Exhaust - use the exhaust
for room pressure

OPTION 3.
No direct flow (loop-flow)
Continuous supply to exhaust
Exhaust - use the exhaust
for room pressure

OPTION 4.
No direct flow (loop-flow)
Continuous supply to exhaust
Exhaust - use the exhaust
for room pressure

OPTION 5.
No direct flow (loop-flow)
Continuous supply to exhaust
Exhaust - use the exhaust
for room pressure

OPTION 6.
No direct flow (loop-flow)
Continuous supply to exhaust
Exhaust - use the exhaust
for room pressure

By using the Indoor Air Quality (IAQ)

Procedure instead of the Ventilation Rate Procedure a more direct control of contaminants is achieved.

This presentation focused on the application of enhanced particle, gas-phase and biological filtration for compliance with Standard 62.1 and recent information on airborne pathogens.



Design aspects were reviewed, with the focus on achieving acceptable levels of contaminants while meeting healthy building standards and improved cognitive functioning.

March 9th, 2022 R.G. Cowan Memorial Scholarship

Isaac Clannon received the R.G. Cowan Scholarship Award from Chapter President John G Willden

It is for immediate family members of a chapter member. Isaac is the son of member Kevin Clannon and Lisa Babin Clannon.

Isaac is studying engineering at Dalhousie University.



In Passing

Gary Clancy passed away on Sunday March 20th.

Gary was on the first board of governors of the NB/PEI chapter.

Point of Interest: Gary Clancy took out a personal loan for the amount of \$400.00 to permit the chapter to start the year.



Gary received recognition from Tom Watson at the 40th anniversary of the chapter. Tom Watson was the current ASHRAE President.

Terry Steeves also passed away on December 28, 2021. Terry was president of the chapter and board of governor from 1977 to 1979 and was an active member in many ASHRAE meetings and events.

Our hearts go out to his wife and family.



April 12th, 2022 - Building Decarbonization

Mick Schwedler, PE, FASHRAE, LEED AP BD+C

Mick Schwedler focused on reducing emissions due to design choices, building operation and from the electric grid providing building power. He described decarbonization, goals, example calculations of emissions, key HVAC components and effects, and a few system solutions.

Mick has been involved in the development and support of HVAC systems for Trane since 1982. As an applications engineer his areas of expertise include system optimization (in which he holds patents) and chilled water and water source heat pump system design.

Mick is serving as ASHRAE 2021-22 President and is an ASHRAE Fellow, recipient of ASHRAE's Exceptional Service, Distinguished Service, and Standards Achievement Awards.



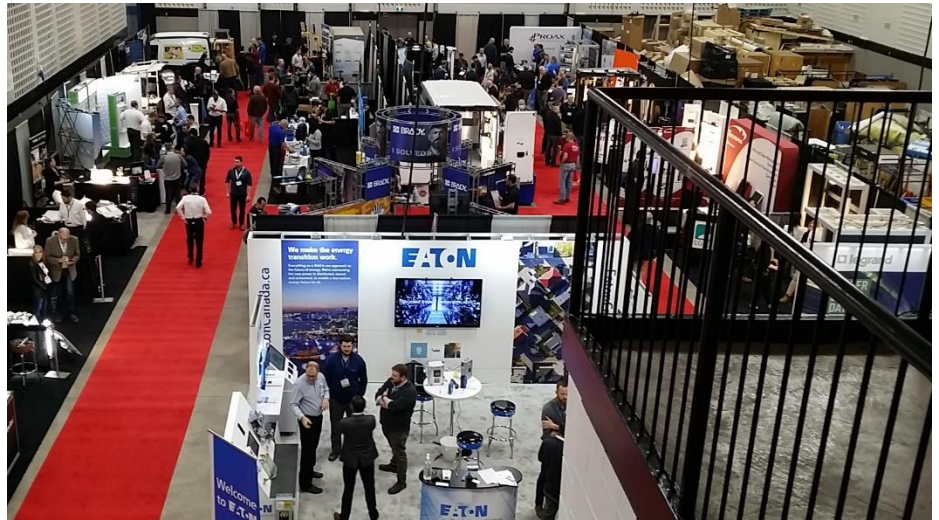
May 4th -5th, 2022 - MEET Show 2022

The 2022 MEET show (Mechanical Electrical Electronic Technology), one of the biggest trade shows east of Montreal finally happened. With the show we finally had a return to in-person meetings and presentations.



Robert Bean, ASHRAE distinguished Lecturer, flew in from Calgary to provided two presentations at the show and a presentation to the Halifax chapter.





June 7th – 8th 2022 - NB Power's Energizing Efficiency Conference in Saint John

NB Power hosted their annual Energizing Efficiency Conference at the Trade and Convention Centre in Saint John. This was their first public conference in 3 years since the pandemic and it was a great success with more than 280 people in attendance! It was 2 days of inspirational talks, technical breakout sessions, opportunities to test drive and learn about EVs, and dinner with a show by comedian Steve Patterson. It was a true showcase as to the ambitions of NB Power to lead us on our path to net zero. It also served to elevate those in our energy community and allowed the brilliant minds of the Maritimes to make connections and energize each other. We look forward to seeing this annual conference continue.



June 12th, 2022 Last Meeting of the Year

A Board of Governors meeting was held in person to pass the torch to the incoming board. Both past and future board members attended.

Two more meetings were scheduled through the summer leading up to the CRC in Ottawa August 26 – 28.

June 22-24, 2022 - 13th International Industrial Ventilation Conference for Contaminant Control - Toronto, ON

The Ventilation 2022 Conference was held in Toronto the week before the ASHRAE Annual Conference.

June 25-29, 2022 ASHRAE Annual Conference - Toronto, ON

This conference was an excellent chance for members who are technically oriented to see the Society machinery in action.

Attendees saw presentations of recent research, took courses, got chapter training and sat in on Technical Committees.

Attendees met people who were doing bleeding edge research on HVAC and COVID topics. Many of the attendees we meet at CRC (Chapter Regional Conferences) we will meet again at the annual conference.

This is the end of the 2021 - 2022 year at the NB/PEI chapter.