

Capital Communiqué



ASHRAE - AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS

<http://www.ashrae.ottawa.on.ca>

OTTAWA VALLEY CHAPTER

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EVENING PROGRAM

2008 - 2009

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Adam Beales

Communiqué

Georges Maamari

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Jason Alexander

Table Top

Frank Bann

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Cathy Godin

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Roster

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CRC Action

Patrick St-Onge

DATE:

Tuesday **February 17, 2009**. Tech: 15:45 Social: 17:30 Dinner: 18:30 Program: 20:00

Travelodge Ottawa Hotel & Conference Centre, 1376 Carling Avenue, Ottawa, Ont., 613-722-7600

**TECH
SESSION**

Video: Who Killed the Electric Car?

Who Killed the Electric Car? is a 2006 documentary film that explores the creation, limited commercialization, and subsequent destruction of the battery electric vehicle in the United States, specifically the General Motors EV1 of the 1990s. The film explores the roles of automobile manufacturers, the oil industry, the US government, the Californian government, batteries, hydrogen vehicles, and consumers in limiting the development and adoption of this technology.

Note that we have received special permission from Sony Pictures to present this movie at our meeting.

THEME:

Membership

PROGRAM:

ASHRAE Standard 52.2

SPEAKER:

Charlie Seyffer

OVERVIEW:

Charlie is a member of ASHRAE Technical Committee 2.04, *Particulate Air Contaminants and Particulate Contaminant Removal Equipment the cognizant committee for particulate filter testing Standards*. Standard 180, *Standard Practice for Inspection and Maintenance of Commercial Building HVAC Systems* and has had continuing participation on ASHRAE Standard 62.1, *Ventilation for Acceptable Indoor Air Quality*. He is also Camfil Farr's representative to the *United States Green Building Council*.

Charlie will discuss recent changes to ASHRAE Standard 52.2 including the new conditioning step. He will also present information as to why this additional testing step is important and what it has to do with sustainability when looked at under the umbrella of today's green movement.

SPEAKER BIO:

Charlie is Manager of Marketing and Technical Services for Camfil Farr. He has over thirty years of service in the HVAC industry, with twenty-five years being dedicated to the air filtration industry in sales management and marketing for Camfil Farr. Presently, he is responsible for all technical publications and product literature published in the North America, and shared worldwide by the Camfil Farr group.

Menu

Assorted Rolls and Butter with Crisp Green Salad
Thyme Crusted Supreme of Chicken, Wild Mushroom and Noilly Prat Sauce,
Served with Roasted Potatoes and Seasonal Vegetables
Paradiso Cake with Coffee & Tea

Chapter Members: \$30.00 Guests: \$45.00

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President &
CRC Delegate



President's Message

By Patrick St-Onge
P.Eng., LEED AP
2008-2009 OVC President

Recently, while most of you were suffering in the cold, I had the chance of spending some time in China. I was able to visit the Shanghai World Finance Center, presently the tallest building in the world, as well as the Great Wall. Two constructions from two different eras; both showing how humans can build structures that display both pride and achievement. It reminded me that, as an ASHRAE member, even if we know that we are not working on the next wonder of the world, we ensure that buildings will meet the needs of those who must work or live in them for a long period of time. That is something we can be proud of.

January was the winter meeting in Chicago. Read Stephen Lynch's [ASHRAE Conference Show 101 here](#).

If you are depressed and bored by the sluggishness of winter, why not get involved with your local chapter of ASHRAE? Please do not hesitate to contact me or any member of the board of governors, we will make sure to find something to keep you busy!

The second half of the season promises to be very interesting. Here are series of events that you will not want to miss:

- This year again, the Ottawa Valley Chapter is organizing a Career Fair. As always, it will be an opportunity to meet with enthusiastic graduates that are interested in a career in the HVAC world. Make sure to not miss that event in March. [Click here for more information on the Career Fair.](#)
- A full day seminar will be organized on April 16. For those who are interested in learning how to design buildings to meet and exceed ASHRAE 90.1 standard, it is an event no to be missed. [Click here for details.](#)
- Also in April, Webcast on indoor air Quality at Trane. [Click here for details.](#)
- Don't miss the Curling Bonspiel, always success, always great fun. [Click here for details.](#)

There is still some availability for table tops for the second half of the season. Tabletops are a great opportunity to show products and have a direct contact with your local clients. Please contact Frank Bann to make sure you will take advantage of this opportunity offered by the Chapter.

See you at the February meeting.

Yours very truly,

Patrick St-Onge, P.Eng., LEED AP
ASHRAE Ottawa Valley Chapter
2008-2009 President

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Secretary



What you missed
 by Christine Kemp
 2008-2009 Chapter Secretary

The Technical Session was “ADPI” – Air Diffuser Performance Index. It was given by Jim Aswegan Chief Engineer of TITUS.

The night’s theme was TEGA / Student Activities.

The table tops were Master Group – BKM’s Reverse Flow Technology and Total HVAC – Aaon for Green Buildings.

- The new roster was handed out.
- Chris Healey has the Curling bonspiel set up for March 20th. See Chris to enter your team.
- Patrick Albert is organizing the Career Fair this year. The Career Fair will be held on March 17th. We are looking for companies to purchase booths and we are looking for student sponsors for that evening.

Thanks to Chris Frauley who has been giving his time to the students by becoming a mentor. Students are given an ASHRAE Handbook and a building to design. Chris Frauley meets with these students on a regular basis, helping them better understand the various complexes in building design and answers their questions. Good job Chris!

The meetings program was “Integrated Building Design (IBD)” put on by Joel Primeau, P.Eng. Joel covered the basics of IBD and explained that truly sustainable buildings can only be achieved when all disciplines are coordinated and pointed in the same direction.

Yours truly,

Christine Kemp

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Committee
Chair



Membership

By Philippe Lemieux
2008-2009 OVC Membership Promotion Chair

FIVE TOP REASONS PEOPLE JOIN ASHRAE

A recent Society survey listed the following as the main reasons members join and maintain membership in ASHRAE:

- To receive technical/educational publications
- To support the HVAC&R profession
- To receive the ASHRAE Journal
- To be knowledgeable in area of technical standards
- Networking opportunities

We invite you to join us at the Ottawa Valley chapter monthly meeting to benefit from all of these opportunities. If you are already a member we encourage you to promote ASHRAE at your workplace and to the younger members of the industry.

Thank you,

Phil Lemieux
Membership Chair

Secretary



Upcoming Seminar

by Christine Kemp
2008-2009 Chapter Secretary

Exceeding ANSI/ASHRAE/IESNA Standard 90.1-2007

Date: April 21, 2009 - 9am to 4pm

This course is targeted at design professionals and building owners. Appendix G, a new informative appendix in Standard 90.1 since 2004, provides specific guidance on the rules and procedures used to simulate building energy consumption when the objective is to substantially exceed the requirements of 90.1. Appendix G is especially useful for energy simulations connected with LEED credits and with energy tax credits. This course presents an overview of Appendix G and explains its use through a number of examples using eQUEST.

- More details will follow shortly.

Please contact Christine Kemp to register- christine@walmart.net

Committee
Chair



Student Career Fair

by Patrick Albert

This year's career fair is gearing up to be a great turn out! We have students from all the local schools; University of Ottawa, Carleton University, Algonquin College, La Cité Collegial and le Cegep de l'Outaouais, with each student looking for a career in the HVAC industry. If you are interested in adding a member to your team, get a step up on everyone by having a booth at the Travelodge on March 17, 2009 and meet with the graduating students. If you are just looking for someone to help you out during the summer months, there will be some returning student looking for just that.

There are still some booths that are available, but spaces are limited and they are filling up quickly. For a small fee of \$200.00, you could meet the newest and greatest future individuals of the HVAC industry. Included in the price is an 8ft table, 2 chairs and one free dinner at the ASHRAE March meeting that same day.

You can also help a student prepare for the final exams by sponsoring their meals at the ASHRAE meeting following the career fair. For a low price of \$20.00, you could help a poor starving student from loosing focus on his or her exams.

For more information, please feel free to contact me at any time.

Patrick Albert
613-728-0060
Patrick@breck-mar.com

Committee
Chair



ASHRAE Curling 2009

by Chris Healey

Our annual curling bonspiel will be held again this year at the Nepean Sportsplex on Friday March 20/09. Curling will commence at 1:00 pm and will be followed by Dinner Upstairs in the Richmond Room at 6:30 pm

Cost: \$ 360.00 (per team of 4)
Format: 4 Games at 4 ends each.

Please contact Chris Healey 613-225-9774 - chris@walmart.net or Christine Kemp 613-225-9774 - christine@walmart.net to book a team.

Thanks
Chris



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Winter Meeting

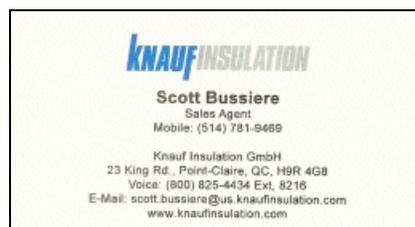
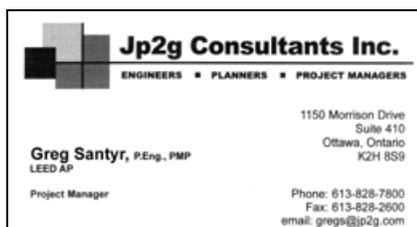
By Stephen Lynch
2008-2009 OVC Treasurer

I recently had the opportunity to attend the ASHRAE winter meeting in Chicago. This particular show's theme was Sustainable Urban Design: Engineering Tomorrow... Today. My theme for the show was Dazed and Confused. What an overwhelming experience and I highly recommend you go, if you have never attended.

ASHRAE Conference Show 101:

- Stay in the Hotel that the conference is at. Waking up in the morning and getting to the seminars, forums and/or technical committees is much easier this way. Especially after the hospitality suite from the night before
- When arriving at the conference to register, makes friends with someone who knows what is going on. Thanks Joel.
- Find your Regional reps and get them to introduce you to all the cool ASHRAE people.
- Use the conference guide and layout out your days ahead of time. At least you will know what you are missing while you are trying to wakeup after the hospitality suite from the night before.
- Listen to people's stories and what they do. Like the guy from NY who looks after 1300 schools and has a budget bigger than the province of Ontario
- Expect the unexpected when going to a hotel room gathering with people from Montana, Georgia, and Ohio.
- Go to the AHR show with someone who knows what they are doing or looking for. It is hard to stay interested when perusing close to 6000 booths. By the time you find something you may be interested in ... good luck.
- Did I mention close to 6000 booths.
- On at least one night out, try to run into someone famous. We were fortunate to run into Brian Dennehy and Carla Gugino.
- Do not forget the students... I volunteered for the student breakfast and it was incredible to see so many students from all parts of the world. The participation was fantastic.

It was incredible to meet some of the people who I have communicated with in Atlanta and see the involvement of so many people at Society level. I have a much better appreciation as to what I am a part of and the people who contribute to ASHRAE. It was great running into local chapter people I knew and sharing this great experience. I am still trying to separate all of the blackmail pictures from the safe ones (you know who you are). Below are a few pictures for your enjoyment.





Student Breakfast: Students from all over the US, Canada, Europe, China, and more!



Our trusted RVC Student Activities welcoming the students ... you can't tell he was out the night before, can you? What a professional!



Algonquin students meet Jake and Elwood ... HOB Chicago



History – Spotlight on Dalton McIntyre

by Rod Potter
Governor, Chapter Historian, Gopher and Webmaster



I had the pleasure of visiting Dalton McIntyre at his home recently with the intent of interviewing him for a History article. He revealed that he had previously taken part in a videotaped Leadership Recall Interview about ten years ago, and most of the following is an edit from the document he wrote himself to recite during that interview.

Dalton McIntyre was born in Ottawa in 1921, the eldest of eight boys. He attended elementary and high school, plus two years at St. Patrick's College in Ottawa before going to Queen's University where he took mechanical engineering. This was interrupted by two and a half years in the Canadian Navy during WW2. He graduated in 1947.

Soon after graduation he was fortunate to obtain employment at Canadian Sirocco Co. in Windsor Ontario for the princely sum of \$208 per month. The company was owned by [American Blower Corporation](#) in Detroit where he received an intensive training course on all their air handling products. Dalton was particularly interested in the fluid drives that they also handled.

While working in sales out of Windsor, he met Bob Tamblin who was working for Cimco in Toronto. Bob impressed him by proving that a backward inclined return fan which was classed as non-overloading, could overload when the supply fan pulls more air through it than its rated capacity [*who knew? – ed*]. This problem occurred at an International Harvester plant in Chatham Ont.

Dalton was transferred to the Canadian Sirocco Montreal office in January 1949 where he joined ASHVE and the Order of Engineers of Quebec. He became active in both organizations and served on several committees. One of the first problems that he was asked to investigate was a complaint by a contractor that a fan was tripping out before it got up to speed. This was in the mechanical penthouse of the Canada Steamships office building. A large double width backward inclined fan with a split housing had been assembled on the job with the fan wheel “in backwards”. The contractor had his hands full rectifying that problem to say the least. Speaking of large fans, in those days Dalton had to design induced draft fans in the sales office to select the correct partial fan width and shaft and bearing sizes. He used slide rules and prepared fan curves by hand. Variable speed fluid drives were used frequently for capacity control of these fans.

Canadian Sirocco had an agent in Ottawa named Tom McGrail, and Dalton set up a part time office and spent some time here during these early years. Tom invited him to the formation meeting for an Ottawa ASHVE chapter at the Chateau Laurier, which took place in [January 1949](#). Later Dalton attended as a guest from Montreal the charter meeting of the Ottawa Valley chapter in [September 1952](#) at the Prescott Hotel.

In 1952, Dalton met and married his lovely wife Edith, who put up with his workaholic tendencies, and together they raised four sons and a daughter, all of whom are happily married and have provided them with (now fifteen) grandchildren. Edith came from a family of twelve children whose annual family unions in Gananoque are still well attended.

Also in 1952, Dalton was made manager of the Montreal office which included agents in Halifax, Saint John, and Quebec. John Green took over the Ottawa office operations.



John Green

In 1956-57, Dalton was chairman of the Program Committee of the Montreal chapter of what was then called ASHAE, and attended as a guest a CRC held at the Chateau Laurier in Ottawa. [Jake Klassen](#) was the secretary, but somehow Dalton was commandeered to take the minutes, and all Jake had to do was vet them. Later that spring, he received a phone call from Hayward Murray, chair of the nominating committee asking him to accept the nomination to be president of the Montreal chapter for 1957-1958 because all others currently on the executive were unable to accept it. Hayward said that if he declined, he would call the Sirocco head office in Windsor, knowing that both Dalton's boss Dick Noyes, and the company president Clare Johnson, were past presidents of the Montreal chapter. Needless to say, he

accepted.

One of his first duties as Montreal chapter president was to attend a cocktail party on board a Canada Steamship at the docks prior to it leaving to bring ASHAE members to Murray Bay, where the Montreal chapter was sponsoring the Summer Society meeting.

He bought a tux to wear at the banquet at Murray Bay, but was not aware that everyone wore white at the summer meetings. His wife Edith knew Aylmer Hamlet who was in charge of arrangements and placed her in the centre of the head table next to the Society president, while Dalton was placed at the end of the table in his black tux. He still has this tux and can still wear it today!

Because he had never attended a board meeting until becoming president of the chapter, everyone on the executive were very cooperative. The Montrealese newsletter was started, and they had their first Christmas Dance complete with a Santa Claus.

Two years later, when Hayward Murray was chapter president, ASHAE merged with ASRE to form ASHRAE. Hayward, who was Dalton's mentor, was a great supporter of this merger. Later, to permit Canadian businesses to claim tax credits for support of ASHRAE Research, he promoted ASHRAE Research Canada, and became its first president. There is now a Research Promotion Award named after him.

In the 1950's Dalton was a member of the Ventilation committees of the Pulp and Paper Association, the first National Building Code, and the Canadian Standards Association. Grant Wilson of NRC was coordinator of this section of the National Building Code at that time.



Grant Wilson

In 1960, Dalton joined Ernest Leblanc Ltee., a Ventilation and Air Conditioning contractor which had installations from St John's Newfoundland to Toronto during the eleven years he was with them. It was a very efficient contracting firm which had a peak production of 80 to 100 tons of sheet metal per week. All the spiral ducts in the Toronto city hall were fabricated on site on a machine designed by his then boss Roger DesTroisMaisons P. Eng., and built in a local machine shop in Montreal.

During this time, he still maintained his membership in ASHRAE, but devoted more time to the Montreal Construction Association, eventually becoming a vice president representing the sub trades.

Later he spent a year with Valta Refrigeration, a subsidiary of Ernest Leblanc Ltee., during which time he took a course from Milt Garland (Mr. Refrigeration) at the Frick plant in Waynesboro Penn. The ASHRAE "Ice Man" Award is named after him (awarded for best refrigeration chairperson).

Allan Hanley, after whom the TEGA Award is named, arranged for Dalton to work with Brais, Frigon and Haniey Consulting Engineers until he joined McQuaig Jarmac, another Refrigeration and Air conditioning contractor in Montreal. During this time, he was a member of the Quebec Bid Depository review committee even though he could not communicate very well in French. He was also on the Labour Relations and Tenders and Contracts committees of the Montreal Construction Association.

In 1975, Dalton moved to Ottawa, with BFH Shawinigan Consulting Engineers, and transferred to the Ottawa Valley chapter. The Board meetings were held in the Wellington Club on Frank Street at that time. He remembers, as chair of the program committee attending a board meeting there and suggesting that they have a chapter meeting with a French program [*perish the thought – ed*]. In Ottawa, unlike his Montreal experience, he served in all the executive positions. Over the years, he has served on the program, membership promotion, research promotion, education, nominating, and audit committees with the Ottawa Valley chapter.



Dalton and Clint Phillips

During his year as president in [1982-83](#), they had a [thirty year celebration](#) a little late, as it was actually held in 1983, and Clint Phillips, then Society president, attended. He returned later that year to attend Al Oakes' funeral (more later). The Ottawa Valley chapter joined the Montreal chapter golf tournament at La Chute for several years, although Dalton wonders how some of the members were able to drive home afterwards. Then the chapter started having its own golf tournaments with very good turnouts every year. He notes that for some ASHRAE members it is the only event that they attend. The chapter curling events have also been well attended. Christmas dances were held at the Cedarhill Golf and Country Club, the Salon of the National Arts Centre, and the RA centre. The year that he was president, it was cancelled and has not been held since. He recalls the last one was not well attended, and it appeared that they could not please everyone with the type of music to be provided [*I have often wondered why we have no Christmas party of some sort-ed*].

When he transferred to the Ottawa Valley chapter in 1975, [Charlie Hobbs](#) was president, and the meetings were held at the Cathay House restaurant in the upstairs room with the "noisy air conditioner". Often the attendance exceeded 100 and quarters were somewhat cramped. Some years later the meeting place was moved to the Philius Fog Restaurant across the street, where it stayed until the restaurant was closed. Meetings were then held at the Hellenic Banquet Centre on Prince of Wales Drive, followed by Capone's, CLEO, and now the Travelodge of course.

[Al Oakes](#) was a personal friend of Dalton's and they first met in Montreal when Al was a sales engineer with Trane. They belonged to The Austrian Board apres-ski group and spent a week at Gray Rocks each winter. The last event they had was a trip to Aspen which was arranged by Al Oakes. They were the only attendees from Montreal, and the rest were all from Ottawa.



Al Oakes

Dalton's most memorable CRC was probably the last one that Al Oakes conducted in Halifax, when he had to lie down and rest between sessions. He did a fine job under trying circumstances. It was a spring CRC and that summer he was operated upon and never recovered. The chapter Al Oakes Award was started the following year, and they arranged for Al's widow, Pat Oakes, to make the presentation to another Ottawa Valley chapter great guy, [George Carscallen](#).

Dalton's most memorable ASHRAE event was when he received the Centennial Award at CRC '94 in Ottawa from the delegate from Quebec chapter. It was completely unexpected, and the message he got was that his bumbling presentations in French as DRC at the meetings in Montreal Quebec, and Saguenay Lac St. Jean were much appreciated.

Chapter committees have changed over the years of course, but the death of the refrigeration committee is probably the most significant in Dalton's opinion. He can remember attending a special meeting of the ammonia refrigeration members in New Orleans shortly after the merger. They were very upset that ASHRAE was downplaying ammonia. Now ASHRAE is downplaying all refrigeration...



John Lunde

Dalton's involvement at the regional level began when [John Lunde](#) asked if he would be willing to stand as backup for RVC of Education. Thinking that this would give him three years to work on the education committee, he said yes. At the CRC in Quebec, John informed him that those whose names were already on the list backed out, and asked if he would accept the nomination immediately. Since he did not like to say no to ASHRAE, he accepted.

Thus began his Regional and Society experience. At his first Society meeting which was in Washington in 1983, someone was trying to put forward a document for presentation to students that described how projects generally developed, with contractors first obtaining the project, and subsequently hiring the consulting engineers and architects. Dalton stated that this might be the way it was done in the States, but in Canada the engineers and architects are first employed by the owners, then they design the projects, and finally contractors bid on them. He was supported by Alex Boome, a consulting engineer from Vancouver, and the whole project was shelved. Dalton was surprised that something as erroneous as this could have been put forward and it revealed that there were many academics on the committee who did not understand the design process.

His next regional experience was on the Nominating Committee, which also included serving on the Society Nominating Committee. In Dalton's opinion, this is an experience that should not be turned down. At the CRC as the member, you direct the voting for all the regional officers, most of whom you know; at the Society level, if you are the member, you are voting for the Society officers, and the candidates generally are much better qualified than you are. In all he spent 5 years on the Nominating Committee first as regional rep and then as appointed by the Board. As an alternate, you cannot vote, but you can participate in the discussions, some of which are quite frank. No one can divulge what is said at these meetings.

The most bizarre event Dalton remembers was how he received the nomination for DRC. Being on the Nominating Committee, he could not be nominated, however the delegates insisted that his name be included. He therefore withdrew from the Caucus, and Bob Morris (the alternate) conducted the vote. Afterwards, he found out that there were two other names submitted, and he withdrew his name. Subsequently, both of those nominated withdrew, and hence they did not have any nomination for DRC. Dalton advised then DRC Norm Johnson, who did not know that his name had even been considered, that he would allow his name to again be put forward. He contacted all the delegates and got their approval to put Dalton's name forward for this nomination which was accepted. This was another great experience for Dalton, because as director you attend all the Board meetings and are called upon to vote on almost everything involving the Society. You meet all the other officers on formal and informal basis. As regional chair you meet all the executives of the chapters in your region each year.

The most disappointing event Dalton remembers was having to withdraw the charter of the Mississauga chapter because they could not get enough members to serve on the executive. Those who did serve did a fine job, but they suffered burnout and had to let it go.

Another disappointing event was trying to get the Saguenay Lac St. Jean chapter to continue its operation. They had committee chairs who were not ASHRAE members. Clint Phillips (then Society president) who presented them with their charter, almost did not do so, because they were not planning on following the proper procedures of operating a chapter. When Dalton joined ASHVE in 1949, there was only one handbook which was described as the bible of the industry.

Now there are four handbooks updated every four years, still considered the bible of the industry. Air conditioning was in its infancy in Canada. Consulting engineers were coming into their own causing some suppliers to back off from their design work in architect's offices [*interesting concept – ed*]. Transactions were in a single normal sized book form and every member received a copy each year. Now they comprise two very large volumes and are rather expensive even for members. However in this electronic age, this is bound to change. The handbooks are now available on CD's, and transactions are available on the Internet.

Although so many things have changed and become faster, the ASHRAE chapter meetings have not changed a great deal. The format is much the same and the chapter officers are much the same taking into consideration the difference between small and large chapters.

Dalton feels that George Carscallen has probably had the most influence on him at the chapter level. His support of ASHRAE over the years has been exceptional. When Dalton came to Ottawa, he was already a committed ASHRAE member, but George's help was invaluable. Dalton feels that the most important thing about ASHRAE is the wonderful people you meet. This is true not only at the Chapter level, but also at the Regional and Society levels. It always amazed him to see how many dedicated members attend the Seminars, Symposiums and Forums, as well as the TC committees, at the Society meetings. The volunteer time that is devoted to these is beyond measure. In addition there are all the standing committees which keep the Society on track.

Being a member of ASHRAE is an absolute necessity for anyone involved in HVAC&R work if they want to succeed. Having joined, it is very important to become a member of a committee. It is an excellent way of meeting people and usually does not involve too much work. In establishing your priorities for your time, make ASHRAE the top one and you will not regret it. Also participate in the recreational activities, golf and curling.

The Ottawa Valley chapter has been somewhat negligent in one field, and that is having an event where the spouses can be invited. Inviting them to a Past President's night where the topic of the main presentation is not of particular interest to them does not seem to be the way to go. It is important that your spouse is aware of your ASHRAE activities, and that she/he knows that the sacrifices that she/he makes in this regard are appreciated.

Dalton is very grateful to the Society for all the awards bestowed on him, some only because he has been around so long. At a Montreal chapter meeting circa late 90's, during a short talk, he noted that he personally knew 50 of their 61 past presidents and 33 of their 53 life members. At about that same time, in the Ottawa Valley chapter he personally knew 45 of our 49 past presidents, and all our life members. He recommends that we [*who are not worthy - ed*] stick around long enough to join the ever increasing number of Life-Members who do not pay dues!

Dalton tried to arrange to bring his wife Edith to the CRC's and the Annual and Semi-annual Society meetings. While he was at meetings almost every day, she would go on the tours, and tell him about them later. He used to go jogging every morning before breakfast, and managed to see some sections of the distant towns in this fashion. One morning in New Orleans, Gloria Cofer, who was at that time assistant to the Board of Directors, asked to join him because it was still quite dark. However when he headed back because he had an early meeting, she continued on. Dalton learned later she usually runs in the Boston Marathon and other such events. Edith and Dalton visited many locations that they might otherwise never have visited because he belonged to ASHRAE, Denver and Hawaii typical examples.



Edith and Dalton in May 2008

Roderic S. Potter
Ottawa
2009.01.15



ASHRAE – CLEAN, LEAN & MEAN: IAQ FOR SUSTAINABLE BUILDINGS

By Donald Weeks
2008-2009 OVC Governor

Plan now to attend this satellite broadcast which will take place on April 22nd, 2009 from 1 pm to 4 pm. There will be approximately thirty (30) spots available at the Ottawa location at Trane's office. Using the guidance provided by the *IAQ Guide: Best Practices for Design, Construction, and Commissioning* developed through collaboration with ASHRAE, AIA, BOMA, EPA, SMACNA and USGBC, this broadcast will challenge the building community to use enhanced IAQ practices to create a more sustainable built environment. You will learn more about your role in transforming mid-range practice into best practice for healthy, productive, sustainable indoor environments.

Location: Trane Ottawa
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The webpage for this satellite broadcast is:

<http://www.ashrae.org/education/page/557>

About the Panel of Presenters — Hoy Bohanon, P.E., Bohanon Engineering, PLLC, Winston-Salem, NC

H. Barney Burroughs, Building Wellness Consultancy, Inc., Atlanta, GA

George DuBose, Liberty Building Forensics Group, Orlando, Florida

Martha Hewitt, Center for Energy and Environment, Minneapolis, MN

John McFarland, WorkingBuildings, LLC, Atlanta, GA

Moderator — Don Rheem

Program — Tentative Agenda includes:

Martha Hewett – “Practical, Proven Strategies to Deliver Better IAQ”

John McFarland – “Integrating Good IAQ into the Design & Construction Process”

George DuBose – “Avoiding Costly IAQ Problems in the Building Envelope”

H.E. Barney Burroughs – “Keeping Buildings Clean: Avoiding and Building Control of Contaminants to Attain and Maintain IAQ Acceptability”

Hoy Bohanon – “Improving Your IAQ and Reducing Your Energy Costs through HVAC Design”

Registration: Individual registration will begin after March 16th, 2009. To register:

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Table Top Display

By Frank Bann, P.Eng.

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Past President



News Update

By Robert Lefebvre
P.Eng., LEED AP
OVC Past President

Technical News:

ASHRAE 2008 BACnet Published

January 21, 2009

ATLANTA – Guidance to reduce a building’s energy consumption on demand is contained in ASHRAE’s newly published BACnet standard.

ANSI/ASHRAE Standard 135-2008, *BACnet® -- A Data Communication Protocol for Building Automation and Control Networks*, allows building equipment and systems manufactured by different companies to work together. It is the only open, consensus-developed standard in the building controls industry. The new standard contains seven addenda approved since the 2004 standard was published.

“The 2008 version of the standard incorporates many years of work by the BACnet committee,” said immediate past chair Bill Swan. “This includes material first published a couple of months ago. It replaces the 2004 version as the standard for BACnet technical and specification efforts.”

The standard contains new guidance related to the Load Control object, an extension to reduce a building's energy consumption on demand - a key element of the integration of energy utilities and buildings to reduce or eliminate brownouts and blackouts from energy grid overload.

It also covers:

- the Access Door object, the first of the extensions to fully support physical access control
- improvements in requirements on BACnet devices
- new capabilities such as BACnet Web Services which, among other things, are being considered for energy utility-building communications
- a standardized and interoperable means to record alarms

The cost of ANSI/ASHRAE Standard 135-2008, *BACnet® -- A Data Communication Protocol for Building Automation and Control Networks*, is \$119 (\$99 ASHRAE members).

To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit at www.ashrae.org/bookstore.



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Sustainability News:

PRICES FOR ROOFTOP SOLAR SYSTEMS FALL AS SUPPLY GROWS

January 23, 2009

Here's a bright spot in an overcast economy: Solar panel prices are tumbling.

Prices for rooftop solar systems, including installation, already have fallen 8% to 10% since October and are expected to drop another 15% to 20% this year.

Fueling the trend is an oversupply of worldwide manufacturing capacity and lower demand, especially in Spain and Germany, which have been growth engines for the industry.

For U.S. homeowners, effective prices are likely to plunge by more than 50% after figuring in a bigger federal tax credit that took effect Jan. 1.

"The era of extremely expensive (solar) modules is over," says analyst Nathaniel Bullard of research firm New Energy Finance.

Since 2004, solar prices have been propped up by a shortage of capacity to make both silicon — the raw material for solar-power systems — and finished panels. Meantime, the Spanish and German governments have paid system owners hefty subsidies to generate solar power, turbo charging sales in those countries.

Manufacturers responded by building a wave of factories. Then Spain and Germany slashed this year's incentives. In the U.S., the biggest solar investors were banks such as Morgan Stanley that can no longer benefit from tax credits because of insufficient profits.

New Energy projects an oversupply of nearly 4 gigawatts of solar modules in 2009, or enough electricity to supply 2.6 million homes.

The glut is already dragging down prices. Barry Cinammon, CEO of Akeena Solar, one of the nation's largest installers, says wholesale prices have fallen about 15% since October. Since installation accounts for about half the cost of a system, total costs are down about 8%. SunPower, one of the largest manufacturers, expects retail prices for its solar modules to dip as much as 20% this year.

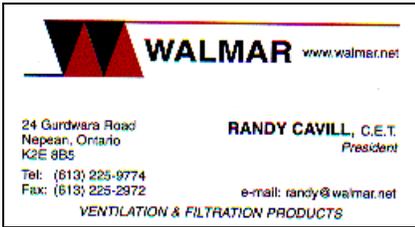
"Now, all of a sudden, we have module manufacturers calling us," says Peter Rive, chief operating officer of Solar City, the No. 1 installer.

Consumers can reap even bigger gains if they can buy in a recession.

Until this year, homeowners who bought solar systems were eligible for a tax credit that shaved system prices 30%, but the credit was capped at \$2,000. Last fall, Congress renewed the 30% credit and removed the cap, lopping thousands more dollars off solar price tags.

In California, which accounts for nearly 70% of the U.S. solar market, a typical 4-kilowatt, \$32,000 solar energy system cost a homeowner about \$23,000 last year after state and federal incentives. This year, if prices sink as expected, that system is likely to cost \$10,000 to \$12,000.

This article is based on a news release from USA Today written by Paul Davidson.



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