



Capital Communiqué

2004 –2005

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April 2005

EVENING PROGRAM

- DATE: Tuesday April 19th, 2005. Social: 17:30 Dinner: 18:30 Program: 20:00
- THEME: **TEGA/Program**
- PROGRAM: **Snow Load Failures from the March 2003 Colorado Blizzard**
- SPEAKER: **Edward L. Fronapfel M.S. P.E.**



OVERVIEW: The lecture will consist of analysis and examples of many roofs in Colorado that failed due to the snow loads incurred during the blizzard. Closer to our hearts are the similar failures experienced at the West Edmonton Mall and major damage in Peterborough in 2004 due to heavy rainfall. In the seminar, the cause and effects of excess snow loads, and how the collapses can be originated from missing and/or damaged structural components, will be discussed.

SPEAKER BIO: Edward L. Fronapfel is a principal of *Professional Investigative Engineers*. He received his B.S. degree in Civil Engineering from the Colorado State University, Fort Collins; and M.S. degree in Civil Engineering with emphasis on structural engineering from the University of Colorado at Denver. Mr. Fronapfel's background includes geo-hydrology, hydrology, hydraulics, civil engineering, structural engineering and construction forensics for building envelope sciences. He is a registered engineer in the states of Colorado, North Dakota, Wyoming, and New Mexico.

Menu

TBA, refer to website



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President's Message

by Cathy Godin

Some of the greatest songwriters, the poets of our time, are simply making observations and pulling these thoughts together to send a message and make their point. I don't know how you feel when you hear a song that really says it all, really nails it. "Amen!"; I cry. She (he) pulled that one out of a hat and hit me right between the eyes. I'm a bit of a song lyric junkie, and when Sheryl Crow hitched a ride with a vending machine repair-man who was high in intellectualism, I too had never been there but agreed that the brochure looks nice.

I share this bit of myself with you, and all of the other bits in my messages this year, because, well because this is what friends do. That's how I view our Ottawa Valley Chapter ASHRAE community; a bunch of friends tied by a common business community who genuinely care about these little bits. I've had the pleasure of meeting many folks through ASHRAE all with these little bits, and these bits are the meat of us all.

It was truly a sign of success for Ray Young that dozens of us paid respect to Ray, his wife Marie, and their two sons. Ray's life was full, not just the career that he had, but full of bits: mentoring his sons in football, active involvement in service clubs, his volunteer work at the Perley Hospital and ASHRAE. Fortunately most of us knew his bits. He shared them freely, and in eulogy, when one of Ray's sons referred to him as the Candy-Man, laughter erupted. It's bits like these that make us friends, more than just folks that get together eight Tuesdays a year.

You have the commitment of the Ottawa Valley Chapter executive and governors to make this newsletter more than just a meeting announcement and we thank you for the very positive feedback we've been receiving. Help us keep on this track. Your suggestions and articles make the Capital Communiqué something worth reading. If you have any bits, please submit them through our editor Rod Potter.

Now back to my lyric addiction...Harry Chapin had a lot to say, Alanis is high on my list, Elton John barely affected me after Bernie Taupin's diatribes ended and since I don't mind sharing my school-day bits, I once submitted the lyrics of five Pink Floyd songs as an English class poetry anthology. I'll end with one of my favorite lyrics of all, one final bit for you as I segue back to my opening line:

*In a clearing stands a boxer and a fighter by his trade
And he carries a reminder of every glove that laid him down or cut him 'til he cried out
In his anger and his shame
I am leaving, I am leaving
But the fighter still remains*

Finally, we are expecting a number of guests from related industries including architects, structural engineers and building owners to enjoy the presentation of ASHRAE Distinguished Lecturer, Ed Fronapfel. I have no doubt we will make these guests feel welcome. I look forward to seeing you at the April chapter meeting.

Sincerely,
Cathy Godin,
President (2004-2005)
ASHRAE – Ottawa Valley Chapter

John P. Lowery, P.Eng.
Senior Territory Manager



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Tech Session: Basics of Fall Protection

Tuesday April 19th, 4:00 pm

La Contessa Banquet Hall

Trainer: Maurice Gravel (PCL Inc.)

In June 2002, section 26 of the Ontario Construction Regulations required that The Ministry of Labour evaluate full protection training programs.

The **Basics of Fall Protection** program has been endorsed by the industry's Provincial Labour-Management Health and Safety Committee and is fully a document of accord between labour and management authorities.

Basics of Fall Protection (CSAO Program) will assist participants to

- a) recognize common fall hazards (such as too much snow on a roof!)
- b) identify and apply basic fall protection controls.

The program consists of

- o **User's Guide**
- o **Trainer's Guide**
- o **Videotape**

The **User's Guide** provides basic information on fall protection. It includes an Evaluation Questionnaire, Answer Sheet, and proof-of-training card.

The **Trainer's Guide** outlines how to conduct effective fall protection training. It includes answers to the Evaluation Questionnaire and a Record of Training form for entering dates, locations, and participants' names.

The **Videotape** illustrates the essentials of fall protection and can be used either as a review for experienced workers or as an introduction for inexperienced workers.

In a recent Church Bulletin:

The peacemaking meeting scheduled for today has been canceled due to a conflict.



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What You Missed Tuesday, March 15, 2005 Meeting

by Glenn MacLean

The March meeting began on a somber note as news of Ray Young's passing filtered through the room. Paul Baker was asked to give a brief history on Ray's career and his involvement with ASHRAE - he will be sorely missed.

On a happier note, the chapter was joined by approximately 18 students from Algonquin College and the University of Ottawa for the March meeting.

Duncan Hill notified those present of the upcoming Canadian Building Science and Technology Conference and encouraged people to not only attend, but to help bring Mechanical and Air Quality issues forward by getting involved. Brochures were left for people; the conference is scheduled for May 12-13th.

Jason MacMurdo kicked off his Resource Promotion campaign and introduced his committee members. Jason also gave a brief talk on the benefits of contributing to ASHRAE Research, and explained that all monies donated from Canada stay in Canada.

The guest speaker for the evening was Michael Dobbs of Camfil Farr. Michael's talk was a charged affair - filtering out the real performance of charged synthetic media based on studies conducted by the University of Minnesota and Inchtch Laboratories. Michael also introduced the proposed changes to International standards on Filtration, and the subsequent expected changes for ASHRAE 52.2.



Table Top Display

by Gary Hartmann

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People on the Move

by various



This just in from Connecticut:

Former Student Activities Chairperson, **Brenda Cumby**, gave birth to our newest future ASHRAE member. **Zachary Stephen Wall** was born on Tuesday April 5th and weighed in at an impressive 9 lbs, 2 oz. Both mother and the new recruit are healthy and happy. (Picture at left is Zachary at 1 hour old).



DisTech HVAC Inc. is pleased to announce the addition of **Patrick Albert** to its technical sales organization. His educational background includes a three year mechanical engineering diploma and a two year construction engineering certificate. In addition to his academic accomplishments, Patrick has added a dynamic and imaginative new engineering perspective to the application of products we represent which will serve him well in his role as a technical representative. We welcome Patrick to the team and wish him well in his new duties.



Business Card Ads

by Rod Lancefield

You can support your chapter and promote your business by placing your business card in the Capital Communiqué. It will appear in the electronic and printed version as well as on the Chapter website.

Cost is \$225.00 for the year; contact Rod Lancefield, rod1@htseng.com, 728-7400

In another recent Church Bulletin:

For those of you who have children and don't know it, we have a nursery downstairs.



(your card here!)



2005 ASHRAE Curling Bonspiel Update

by Christine Kemp

This was a great day had by all. This year's winning team was C&S Heating; way to go!

Thanks to everyone who participated and donated great prizes.

I want to especially thank Stan Millross for his entertaining MC role, and Chris Healey for spending the day keeping us organized and tracking the scores. Thanks so much for all you guys do.

I look forward to next year!



Stan Millross at bat



Paul Baker so suave



Herb "Ganja Man" Dean



"South Pacific on Ice"



Typical action shot



"I can't see the puck..."

Visit http://www.ashrae.ottawa.on.ca/ashraeoc_photogallery.html for snaps from the event.



(your card here!)



U.S. Department of Energy
Energy Efficiency and Renewable Energy

Introduction to Distributed Energy Workshop

12:00 – 4:00 P.M. EST, Tuesday, April 19, 2005

Sponsored by the U.S. Department of Energy's Federal Energy Management Program (FEMP)

Purpose: This free online workshop provides an overview on distributed energy (DE), including the role DE plays in energy security via participation in a live web cast.

Who Should Attend: Federal Government officials and other individuals and organizations interested in DE project development and implementation.

Training Certificate: Provided upon completion of the workshop course and submission of the evaluation form.

Topics covered by Sandia National Laboratory and Industry Experts:


- 1) Overview of Distributed Energy Technologies and Renewable Energy
- 2) Advantages of Combined Heat and Power
- 3) Federal Case Studies
- 4) Energy Security
- 5) Financing Options
- 6) Available Tools and Resources
- 7) Question and Answer Session

Agenda and more information: http://www.eere.energy.gov/femp/technologies/derchp_training.cfm.

Register: Visit http://www.eere.energy.gov/femp/services/training_dist_gen_chp.cfm

Access: In order to view the web cast, you will need a computer with Windows Media Player and an Internet connection. The online registration page provides information on how to connect to the web cast, including a user guide with detailed information.


Course Contact: Marion Rawson at mrawson@energetics.com or 202-406-4119.



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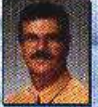


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Mould on the Walls

by Donald Weekes

Insurance claims for mold in private homes have increased dramatically in the last few years. With this increase, there are always those who will try to take advantage of the frenzy of claims for their own benefit. It is often hard to detect these fraudulent claims, but sometimes they are very obvious, if you know what to look for.

A property insurance claims adjuster requested that I visit an unoccupied house where there was a claim filed for mold on the walls on the first floor and the basement. However, there was no reported pipe break or water intrusion from the roof or the basement floor. This was considered unusual, in that almost all mold claims were the result of a water intrusion or break problem in the house. I was asked to investigate this matter by a site visit and a discussion with the owner of the building.

I met the owner at the house, and noted that there was indeed water stains and possible microbial growth on the walls in a first floor living room and a family room in the basement. However, I also noted that the pattern of the water stains on the walls was quite different than anything I had ever seen before. The water stains went up and down the walls, in a continuous stream across the face of the walls. None of the water stain was located at the bottom of the wallboard, where water on the floor would be wetting the wall, or near the top of the wall, where leaks from above would affect the wall.

As I looked closely at the water stains, it dawned on me that this pattern resembled a spray from a hose! It looked like someone had sprayed the walls with a garden hose, deliberately causing the water damage and the mold growth! I took pictures, hardly believing what I was seeing.

I then talked to the owner, who wanted to review the situation with me. I mentioned the distinctive water spray pattern, and that it looked like water had been sprayed on the wall deliberately. I thought perhaps he might confess that he did it, to collect the insurance money to rebuild the walls and redecorate the house. But, no, he was brazen to the end. He thought a second and said, 'I think I know what happened. Someone broke into the house, dragged the water hose from the backyard, and sprayed water on all these walls, to vandalize the house'. I had a hard time not bursting out in laughter at that explanation of the damage.

Needless to say, the insurance company denied the claim.

Mould-Related Articles posted on Website

John Hammond, a professional engineer residing in Orange County, California, has kindly submitted two articles to our chapter on the subject of mould. He has undertaken extensive research in the areas of residential mould growth and problems with mould in schools.

You can link to the articles in PDF format here:

http://www.ashrae.ottawa.on.ca/ashraeoc_articles/John_Hammond/BathroomShowerWaterEvaporation.pdf
http://www.ashrae.ottawa.on.ca/ashraeoc_articles/John_Hammond/ClassrmShowerMold.pdf

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Tribute to Ray Young

(a summary of the Eulogy by Paul Baker at the last chapter meeting)

Ray would never say 'passed away' when he spoke of death. He always quoted Tennyson and spoke in terms of crossing over. He found himself in more situations in recent years where death was a topic because after his retirement he put many volunteer hours in at the Perley Hospital. He spent time with the World War II veterans there and, being a veteran himself, found that they were more open and comfortable speaking to a fellow veteran who they could identify with. Ray graduated high school in Toronto in the spring of 1944 and joined the Navy straight away (May 27, 1944). He stayed with the Navy well past VJ Day but eventually joined Arthur S. Leitch Pumps in 1952 and stayed with them for the rest of his career. After two stints at the Leitch factory in Midland, Ont. separated by five years in Montreal, Ray came to Ottawa in 1968 as the Branch Manager responsible for sales in Eastern Ontario. Ray was Leitch Pumps for Ottawa and the valley until he retired in 1992.

Ray was a strong contributor to the Ottawa Valley ASHRAE Chapter. He was the fourth recipient of the Al Oakes Award but it should be noted that he also mentored the second and third recipients (Paul Baker and Keith Murfin). In the Chapter he went through the chairs and was our Chapter President in 1980-81. However, Ray will be remembered best in ASHRAE as "Mr. Membership". He saw membership growth as the strength of the organization and realized that chapter meetings that allowed maximum time for fellowship and limited time spent on procedural issues fed that growth. Consequently, in his year as Chapter President, he found creative ways to limit the time spent on the business session of the Chapter meetings. He became well versed in Robert's Rules of Order and also began the tradition of posting minutes of the previous meeting rather than having the Secretary take time to read them, ask for a motion to accept, invite discussion, vote, etc.

Ray's Membership announcements at Chapter meetings were always amusing and usually followed his theme jokes about the underlying unspoken threat. It could be an offhand comment about how organized crime syndicates handled 'deadbeats who were late paying up' or a discussion on how the British Navy Press Gangs of the past got able-bodied men to 'volunteer' for navel duty... or else cease to be able-bodied. He was so successful at growing our Chapter membership that he himself was conscripted to do a three year term as Regional Vice Chairman for Membership for Region II. He took his act on the road and improved membership throughout the region. Keith Murfin's charts of Chapter Membership Growth are still in our Chapter Archives and show the steep increase curve attributable to Ray and Keith in the early to mid '80's.

Ray's wife Marie was also active in the Chapter. As recently as our last CRC, Marie was on the host committee helping to plan the spouses' program including a successful retro fashion show. In recent years Ray has been Chairman of the Greeters Committee and it was a fitting tribute to Ray that Greeter Chris Frauley was handing out Ray's brand of candies to all members coming into the Chapter meeting. For those of you who believe Ray has 'crossed over' to a better place, you can be sure that he has zeroed in on those who were just sitting on their wings and reading a scroll. He has grabbed them by the scuff of their neck, got them to join up, pay their dues, and he has started them on some committee work.

(Later in the meeting Rob Lefebvre went to the podium to introduce the evening's guests and took a moment to add that Ray was very supportive of a certain young, green Chapter Membership Chair and helped Rob to complete three successful years for the Membership Committee as the Chapter moved into the new millennium)

Here's to Ray Young with our thanks.



Ottawa Regional Science Fair 2005

by Chris Fudge



Each year our Chapter provides three “special” awards for this event, \$100 for the Junior category, \$200 for the Intermediate category, and \$300 for the Senior category. We stipulate that for an entry to be considered, it must be related in some reasonable way to our engineering field. This year I was helped out with the judging responsibility by Bob Kilpatrick and Rod Potter. The event is sponsored by the University of Ottawa and was held on Saturday April 9th at Tabaret Hall in downtown Ottawa.

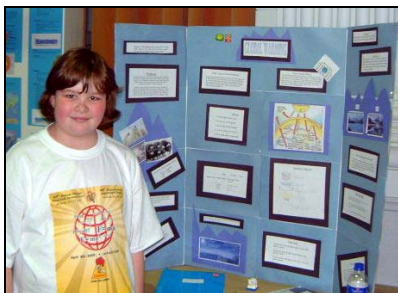
On arrival in the judge’s room downstairs we were handed our registration information and a list of students who thought that their entries might be of interest to us. It immediately became apparent that there were no hopefuls in either the Intermediate or Senior levels – which made us wonder if the kids were properly briefed by their tutors; possibly the higher level students have less time or interest in such things. It was pleasing to see that there were about seven hopefuls in the Junior category however.

We entered the Chapel Room upstairs and were surprised to see the number of entries crammed into this space – each entry generally comprised of a simple table with a cardboard backdrop onto which the student(s) had affixed their paperwork. Some entries had relevant props on the table, though many simply consisted of well-written Premise, Theory, and Conclusion, including graphs and similar documents. The majority of the entries were of the Junior level, and many centered around Biological and Electrical Sciences. All were uniformly impressive. However we knew that our awards had to be for entries related to our field, and the hunt was on.

One of the first students we spoke to was **Hannah Batten**, a Junior from Goulbourn Middle School, who had produced a very interesting study on *Global Warming*. Our discussions included the various causes of greenhouse gases, and why they are bad for the environment. We were sufficiently impressed with her to award her the \$100 prize.

Russell Burgess and **Jens Walker** from Henry Munro Middle School were two more fine Junior level students who had chosen to experiment with various *insulating materials* to determine which were the best for *decreasing heat transfer*. Their blue Styrofoam box was impressive with its myriad wires connecting to meters. According to these guys, we should wrap ourselves in Goose Down before filling our parkas with Styrofoam – they received the \$200 prize.

Finally we were pleased to see the entry by **Philip Gazaleh** and **David Grabowski**, a couple of Intermediate level students from Colonel By Secondary School. They had created a crude chamber from 2x4 stud, drywall and nails, into which they had placed audio speakers. Their task was to establish *which materials best attenuated the sound* from the speakers, and they lined the box with various substances such as expanded polystyrene, wood, felt etc. Then they blared loud music and recorded the dBa level next to the box with a meter. Our initial reaction was “not more grunge rock, please”, but to our delight they revealed that the music they used was more along the lines of Led Zeppelin. You guessed it – this sealed their \$300 prize.



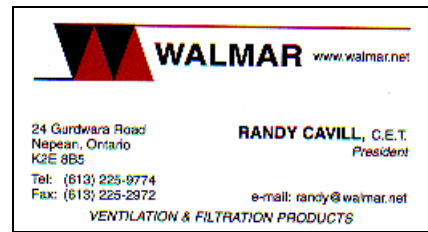
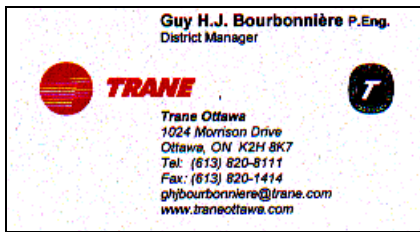
Hannah Batten
\$100



Russell Burgess & Jens Walker
\$200



Philip Gazaleh
\$300



One Man's Rubbish is Another Man's Treasure

by Rod Potter

I don't have a great deal to talk about this month other than to say I had a super time at the Curling Bonspiel. It was the second time the boys over at Breck-Mar had invited me to be part of their team and I was surprised because I thought they had learned their lesson last year at the ASPE Tournament. The two tournaments certainly taught me a few things about curling:

- I cannot curl to save my life;
- Herb Dean looks great in a Rasta Hat;
- The more beer you drink the colder it gets on the ice;
- Stan Millross is a wonder to behold;
- Heather Garner looks great sweeping the ice;
- The Breck-Mar boys are a continual source of amusement;
- Richard Albert has a superb collection of hats;
- I inherited my late father's lack of tact.

You see after the curling competition everyone retired upstairs for a fine meal laid on by Capone's catering, and expertly MC'd by Stan Millross. This was followed by the drawing of raffle tickets and awarding of many delightful prizes that had been donated by fine companies. Normally I never win anything in these raffles but that's ok because I don't believe that any of us really purchase a raffle ticket expecting to win anything.

Early on in the proceedings I noticed that there was what looked like a very fancy deck chair of some sort up at the front near the podium, and my failing eyesight and wandering mind pretty-well had it pegged as a high-tech effort made out of aluminum section by the likes of Technion. So you can imagine my surprise when I actually had the winning ticket for this item, walked up to the front and realized it was really a deck chair made out of old hockey sticks!

My reaction was poor to say the least because all I remember saying was "this thing is really ugly" more than once, which must have seemed a bit ungrateful to many, but what can I say, tact has never been one of my strengths. Anyway before long I had off-loaded the chair to Gary Hartmann for his son, and I am told he just loves it. To all and sundry I apologize, and if I am ever lucky enough to win such a prize again in the future, I will remember that no matter how ugly it is, it was still made by some mother's son or daughter.



The offending chair with me in it.

FRANK JEFFERIES, P.ENG.
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In yet another recent Church Bulletin:

Low Self Esteem Support Group will meet Thursday at 7 PM. Please use the back door.

ASHRAE OTTAWA VALLEY CHAPTER MEETING LOCATION

Our meeting location is **LA CONTESSA BANQUET HALL**, 156 Cleopatra Drive, Nepean, K2G 5X2
Tel. 613-224-8700. Parking is available just to the north of the building in a small multi-storey parking lot.
Make sure you lock your car and bring your valuables with you.

*** end of Communiqué ***



(your card here!)

