



Airways

Hamilton Chapter No. 037

<http://www.vaxxine.com/ashrae/>

American Society of Heating, Refrigeration and Air Conditioning Engineers

Volume 47, No. 1

Our 47th Year

September 2005

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Tuesday, September 6, 2005
(not the normal 1st Tuesday)

IAQ and You
(Filtration)

This month's presentation will cover filtration.

Feature Speaker:

Andrew Roblin
President & C.E.O.
Cimatec Environmental Group

Royal Hamilton Yacht Club
North End of McNab, On Hamilton Harbour

5:00 pm – Social Hour & Technical Session
6:00 pm – Dinner & Business Meeting
7:00 pm – Feature Speaker

Technical Session/Dinner/Feature Speaker

Chapter Members - \$30.00 • Guests - \$40.00 • Students - \$15.00 • Meal Plan - \$135.00

Technical Session and/or Feature Speaker (without Dinner)

\$15.00



President's Report

New Chapter Year - New Meeting Date - Old President.

We have changed the meeting date to the FIRST TUESDAY of the month to enhance our programming. Last April we were able to share a Distinguished Lecturer with Toronto and since this was so successful we have decided to take advantage of this again, by shifting nights.

I will report at the September meeting on the CRC being held in Grand Bend on Aug 25 – 27 but Hamilton will be well represented this year with George Menzies, George Robb, Wilf Laman, Dave Hills, Dave Rasmussen, Nathan Martin, and myself attending.

Dave Rasmussen will be presenting our CRC 2006 plans and budget for the conference that we will be hosting in Niagara Falls

Through innovative planning and prudent budgeting we are going to offer the most user friendly CRC to date and are anticipating the largest turn-out ever experienced by the local and other eight (8) chapters in Region II.

August 25-27, 2006: mark it on your calendar

I have attended Forty-Two ASHRAE meetings since 1980 and still have to constantly remind myself that ASHRAE is an International Organization of over 50 Thousand members. Locally we have a strong dedicated group that has attended the ASHRAE meetings and since Headquarters is trying to provide an incentive meeting attendance (50% off), we are also going to announce a similar local incentive at the September meeting.

Be there to kick-off an interesting year

Bill McCartney, President 05/06

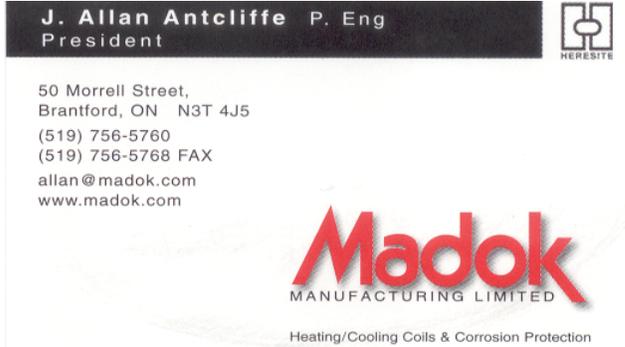


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Message from the Programs Chair

Distinguished Lecturers

Last year, the Hamilton Chapter had the opportunity to take advantage of the Distinguished Lecturer program through ASHRAE. Manuel del Valle, PE, director of HVAC design at Flour Daniel, enlightened those in attendance on the topic of clean rooms for pharmaceutical and biotech facilities. Manuel discussed clean room designations, and presented the HVAC requirements for these spaces. With an extensive portfolio of past projects, Manuel was able to demonstrate how his design team approached these projects, outlining the equipment required for a successful installation.

Again, ASHRAE Hamilton has the distinguished lecture circuit available for its benefit. Please take a minute to look at the list of lecturers and topics available on the website at www.ashrea.org. From the 'shortcuts' drop down menu click on "Distinguished Lecturer Program" where you will find a link to all of the topics available for 2005-06.

Please forward your requests to nathanm@odellassoc.com.

*Nathan Martin,
C.T.T.C. Chair & Programs Chair 05/06*

Upcoming Events of Interest

LEED Canada NC: Technical Review

September 13, 2005

London, ON

The Canadian Green Building Council (CaGBC) is bringing the LEED Canada NC: Technical Review to London, ON on Tuesday, September 13, 2005. This workshop will be of interest to ASHRAE members as mechanicals are a vital component of sustainable construction.

For more information, go to <http://www.cagbc.org>. Click on Building Rating Systems and then on Leed Training Workshops.

Message from the Editor

Welcome to the first issue of Airways for the Chapter's 47th year!

This issue is a little sparse as a number of our contributors are either on holidays or preparing for the CRC being held in Grand Bend from August 25th to August 27th. Look for more and more timely content in the October issue.

Allan Antcliffe, P. Eng., Airways Editor 05/06

Bill McCartney's ASHRAE Adventure

What an adventure I had today.

I drove 60 miles south of Denver in 90F clear blue sky on Highway 25 to Colorado Springs, which took less than one hour due to the 75 mph speed limit.

I noticed that I had already climbed 800 feet from the "Mile High" city and the Malibu (L5 – basic station wagon) did seem to handle quite nicely (a little underpowered) but the real test was up ahead.

Did a quick turn right on Highway 24 and headed west into the mountains.

After about 10 miles of high speed climbing on a 4-lane highway there was a sign that said bear left for Pikes Peak Highway.

Just up the road was a Gatehouse and with the payment of a crisp American 10 dollar bill I was on my way up the peak in my airport rental.

I checked out the site before I left and it said it was 19 miles, you needed a half a tank of gas, and the trip required at least 2 hours for just up and back.

At last a challenge that didn't involve the technical and political side of the HVAC industry that I've been dealing with for the last 5 days.

I quickly calculated that it should take 19 minutes at 60 mph, so why would I need to spend an hour getting to the summit.

The first thing that was necessary was to gear down to low (it's an automatic), and start pushing the slow pokes ahead of me off to the little right-of-way sections so I could get by and maintain my mile/minute schedule.

It wasn't long before I realized that I was only averaging 30 mph and was struggling to accomplish that rate of climb ... on a paved road no less.

I also noticed that there were mile markers and the first mile was at 8,000 feet.

Deciding to pick up the pace I concentrated on the road and actually hit some rare straight sections that I could get up to 50 mph.

But it always seemed that this was quickly followed by a 135-degree right hand turn and a 45-degree slope that strained the engine as well as my attitude.

There was nobody chasing me so I continued with new vigor until suddenly just past Mile 10 the pavement disappeared and now I was on a gravel washboard road that made cornering and climbing very interesting.

I suddenly appreciated my front wheel drive, underpowered car since I was able to push upward and onward without much concern for the washboard.

The higher I got, the slower it got, the steeper it got, and the turns (right and left) became 180 degrees with absolutely no opportunity to see around the corner for traffic descending from the peak.

Throw in the fact that they were also doing road repairs and clearing away rock falls so there were lots of sections that weren't much more than one car wide.

Now comes the really interesting part – once you get above the tree line there is now only a very narrow gravel road that has rocks close to the passenger side and 10 feet away is blue sky on the drivers side.

There are no barricades, barriers, or even the slightest hint of edging – just blue sky and in the distance, around 5-6,000 feet below you is the bottom (I think) of Peaks Peak.

Now I have both hands on the wheel, the passenger side wheels are bumping the rocks on the inside, and I have nicely tucked myself in a caravan of cars climbing at a blinding speed of 5 mph.

Airways – ASHRAE Hamilton Chapter – September 2005

Nearing the top I noticed that the road is a little smoother but the fact that all you can see in front and to the side (depending on which direction the switchback takes you) is blue sky, you don't really speed up or take your eyes off the road.

Once I reached the summit (14,110 feet) I pulled into a parking space, which looked straight out into the horizon and the ground, which was endlessly below.

I shut the car off, put into park, and made sure the emergency parking brake was fully engaged.

The first thing I noticed was that I felt dizzy and disoriented, a condition listed in the pamphlet I received at the gatehouse, called hypoxia, that is caused since the air up here has only half the oxygen that we are used to breathing.

I did not get out of the car for a least five minutes since I did not feel like reeling forward since that first step looked the full 8,000 feet I had ascended.

I was glad I brought my coat with me because when I then looked at the outdoor temperature reading in the car display and it was only 46F (Denver was 90F).

Getting up the nerve I got out of the car, put on my coat and took tiny controlled steps towards the Summit House, which seemed a huge distance away, since I was moving very slowly and gaining only 6 inches per step.

Once inside I noticed the place was packed (noon) and saw the "COG" train parked on the other side unloading great quantities of relieved passengers ... that must have been just as wild a climb as I experienced.

After buying some souvenirs and water I walked out to the overlook areas and was mesmerized by the views in all four direction.

There was a plaque there dedicated to Katharine Lee Bates, a teacher from Massachusetts, who in 1894 penned "America the Beautiful" after her visit to the Peak.

I called the office and told them that I was looking for messages, and when I said that I was calling from 14,000 feet, they assumed I was in a plane on the way back.

OK now the descent!

The first switchback you come to (maybe a 60 seconds into the drive) there's a bright yellow sign that states "Hot Brakes Fail" use 1st or low gear all the way down.

So I'm in low gear and the two vehicles in front of me obviously have a lower gear since I have to ride the brakes to keep from ramming into them at a screaming 10 miles per hour.

The good news, at this slow speed I have an opportunity to look at the phenomenal views, but of course now I am driving on the "outside" lane that has no edging, an endless blue sky, and an indeterminable bottom if I should chose to wander to far to the right.

Needless to say I was very pleased to come to the trees, and then the paved road again at the 10 mile mark, and when I got the intermediate gatehouse they actually measured the temperature of your brakes before they would let you continue on (they were warm but acceptable).

For the record I did make to the top in 45 minutes and even though it was downhill all the way it also took me 45 minutes to get back down.

It was quite the adventure and I would recommend that if you were ever in the area, that it would be the best \$10.00 that you will ever spend.

Bill McCartney, President 05/06

2005 – 2006 Meeting Schedule

This year's meeting schedule is summarized below. Except for some special events, all meetings will be held at the **Royal Hamilton Yacht Club, at the north end of McNab St. on the Hamilton Harbour** (If you need a map, visit our web site). During the 5:00 pm to 6:00 pm Social Hour, a half hour "technical session" is presented on the basics of a particular subject relating to our industry. If the session sounds interesting to you, feel free to attend. These sessions are presented by our members and are open to any one wishing to share his or her expertise. New products and/or services are presented informally via a "table top demonstration". After dinner, the main topic of the evening is presented by the "feature speaker". If you are interested in presenting a technical session, booking table top space to promote your product and/or service or, if you have a suggestion for a feature subject and/or speaker, please contact Nathan Martin (Programs Chair). There is a charge of \$75.00 for "table top demonstration" space and this includes a business card ad for two months.

ASHRAE Hamilton Chapter Program Activity				
Date	Theme	Technical Session 5:00 pm – 6:00 pm	Table Top Demonstration	Feature Speaker
<i>September 6, 2005 (1st Tuesday)</i>	<i>Filtration</i>	<i>ASHRAE "Corporate Structure"</i>	<i>Cimatec Environmental Group</i>	<i>Andrew Roblin Cimatec Environmental Group Filtration</i>
<i>October 4, 2005</i>	<i>t.b.d.</i>	<i>t.b.d.</i>	<i>t.b.d.</i>	<i>t.b.d.</i>
<i>November 1, 2005</i>	<i>Refrigeration</i>	<i>Bill McCartney Ontario Regulation 189/94</i>	<i>t.b.d.</i>	<i>Garth Denison Sporlan Valve New Refrigerants</i>
<i>December 6, 2005</i>	<i>Social</i>	<i>Family Christmas Event – Connie Jasinskis, M. Sc. – For the Love of Fit "Move It or Lose It"</i>		
<i>January 3, 2006</i>	<i>t.b.d.</i>	<i>t.b.d.</i>	<i>t.b.d.</i>	<i>t.b.d.</i>
<i>February 2, 2006</i>	<i>t.b.d.</i>	<i>t.b.d.</i>	<i>t.b.d.</i>	<i>t.b.d.</i>
<i>March 2, 2006</i>	<i>t.b.d.</i>	<i>t.b.d.</i>	<i>t.b.d.</i>	<i>t.b.d.</i>
<i>April 4, 2006</i>	<i>t.b.d.</i>	<i>t.b.d.</i>	<i>t.b.d.</i>	<i>t.b.d.</i>
<i>May 4, 2006</i>	<i>t.b.d.</i>	<i>t.b.d.</i>	<i>t.b.d.</i>	<i>t.b.d.</i>
<i>June 2006</i>	<i>Social</i>	Annual Golf Tournament		

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