



Airways

Hamilton Chapter No. 037

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American Society of Heating, Refrigeration and Air Conditioning Engineers

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Our 47th Year

February 2006

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Tuesday, February 7, 2006

Changes to Heating Codes

This month, Susan Cooke, representing the TSSA, will update Chapter members and guests on the latest changes to the heating codes applicable in Ontario.

Feature Speaker:

Sandra Cooke, M.A.Sc., P. Eng.
Technical Leader – Fuels Safety Program
Technical Standards & Safety Authority (TSSA)

As Technical Leader of the Fuels Safety Program, Sandra Cooke is fully responsible and accountable for all fuels safety engineering design reviews, custom equipment approvals, regulatory maintenance, development and adoption of codes/standards for the Province of Ontario. This role also is responsible for the supervision of the engineering team, the Fuels Safety operational plan and the engineering budget. Sandra represents Ontario on the Interprovincial Gas Advisory Council which authorizes the use of codes/standards for Canada.

Sandra's background includes other positions within the TSSA as well as with Underwriters' Laboratories of Canada, Fuelmaker Corporation and Ontario Hydro Research Division.

Sandra obtained her Master and Bachelor of Applied Science degrees in Mechanical Engineering at the University of Toronto and holds the designation of Professional Engineer.

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

The LEED certified EMS facility in Cambridge was our tour for January. As usual we had an excellent turn-out for the tour and we had a lot more local representation from the Kitchener/Waterloo/Cambridge area.

During the dinner following the tour, some of us discussed that possibility of holding one or two meetings per year closer to this area to get more people involved in the chapter activities by spreading the meeting location around. That being said, we do cover from Niagara to Kitchener to Brantford and Burlington so we do try and be fair to everyone with as central a location as possible at the yacht club.

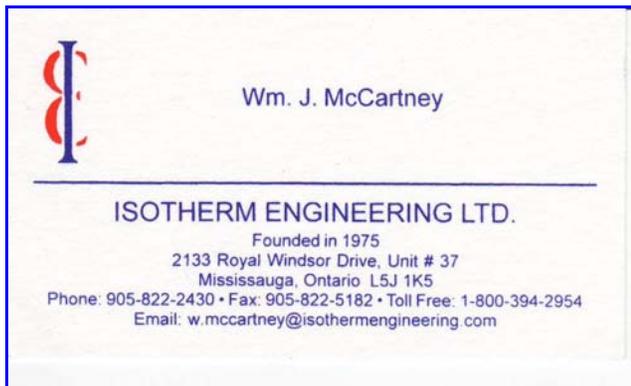
There was a good representation from the Hamilton chapter at the Chicago annual meeting. I unfortunately could not attend the show due to meeting commitments but hopefully someone will enlighten us at the February meeting.

Wilf Laman has been appointed DRC for Region II, starting July 1st 2006, so his commitment to ASHRAE just increased ten fold. I would also like to offer my congratulations to Jean Bundock (outgoing DRC from Quebec City) for his exemplary effort for the last three years plus. His leadership skills have improved the Region continuously since he took over.

The summer meeting this year is in Quebec City so the offer from ASHRAE and your local chapter to allow first timers a free registration still stands. This would be a terrific opportunity to combine business and pleasure for those wanting to visit Quebec and check out the meeting.

I can only stress that Chicago was the 44th meeting that I have attended and I still look forward to every upcoming meeting and have already planned forward through to Salt Lake City in June 2008.

Bill McCartney, President & Research Chair 05/06



Wm. J. McCartney

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Technical Session

In this month's Technical Session, Glen Bradley, P. Eng. – Regional Manager of Canada for Maxon Corporation – will enlighten us on **burner technology**.



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ASHRAE Hamilton Chapter 2006 Golf Tournament

In 2005, we had the opportunity to hold our golf tournament at Legends on the Niagara. Those who were fortunate enough to play were treated to a picture perfect day at one of the most spectacular courses in the Niagara Peninsula.

The only downside was that we did not meet our target of 120 golfers. This enables them to close the course to outsiders . . . like the idiot from the other tournament who thought it would be funny to place our longest drive marker 10 feet from the green on a 485 yd hole.

Because we didn't rip up the course . . . we have been invited back!

Mark your calendar now for Wednesday, June 7, 2006. Let's ensure the course belongs to the ASHRAE Hamilton Chapter that day by getting 120 golfers out.

Are you contemplating going . . . but are concerned that it's a difficult course? This year will mark the first ever best ball.

David Rasmussen, Social Chair 05/06

Upcoming Events of Interest

CMX–CIPHEX 2006 SHOW

March 23 – March 25, 2006
Trade Show & Learning Forum
Metro Toronto Convention Centre
www.cmxciphexshow.com

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Upcoming Chapter Meetings

Tuesday, Mar. 7/06

Theme: Air Distribution

Technical Session - Discussion of ASHRAE Standard 62.

Feature Speaker - **Jim Ashwegan** from Titus will present on the topic of **VAV and FPVAV applications**.

Mark this date on your calendar now!

ASHRAE News Releases

CLIMA 2007 to be held in Helsinki, Finland

ATLANTA – Creating wellbeing in indoor environments in an environmentally sustainable manner is the theme of CLIMA 2007.

Design Needs of Datacom Facilities Addressed by ASHRAE

ATLANTA – An overview of the design needs for data centers and telecommunication facilities is available in a new publication from ASHRAE.

ASHRAE Recognizes Outstanding HVAC&R Industry Achievements

CHICAGO – ASHRAE recognized 38 people for their contributions to ASHRAE and the HVAC&R industry at the Society's 2006 Winter Meeting held here Jan. 21-25.

Sustainable Design Recognized in ASHRAE Technology Awards

ATLANTA – A circus big top, a school using 80% less energy than typical and a Chicago sustainability education center are being recognized for innovative design by ASHRAE.

ASHRAE and Elsevier Launch New eLearning System

CHICAGO – A new eLearning system is being launched by ASHRAE and Elsevier.

[Click here for complete news releases.](#)

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HISTORICAL BIO
LOUIS SENTESY, C.E.T., F.C.A.M.
HAMILTON CHAPTER CHARTER MEMBER,
SOCIETY LIFE MEMBER
SPEBSQSA (Frank Thorn Chapter)

Lou has been a life long member of ASHRAE, joining the Society February 1st, 1952. He became a Charter Member of the Hamilton Chapter in 1959 and a Life member January 31st, 1987. Lou provided me with a most informative personal history, especially interesting to those of us veterans in HVAC in this Hamilton area – reminds us of the old guard and how it started.

Louis Sentesy was born as Szentesi Ladiszla, in Hungary in 1922. He came to Canada in 1929 with his mother to join his father who had left the hard times in Europe in 1927 to come to the new land of opportunity – Canada where he initially worked at an Ontario lumber camp. When Lou and his Mom arrived in Collingwood, father was now working for a construction company. The family eventually moved with the company to Port Colbourne, and then to Kingston. A sister was born and to raise the family, Lou's father left the nomadic construction work. He started a garage-gas station, then a grocery store. With suggestions from his friends, (this is the period of the lean 1930s) the family moved to industrialized Hamilton, where Lou's father started a butcher store, then a restaurant, and again two gas service stations.

Opportunities lead them next to Tillsonbourg (tobacco farming). It was here that Lou lost his parents along with the hired man. His sister survived the accident. Lou and his sister became wards of the Children's Aid in Woodstock. After elementary school, Lou asked to go to a Technical school. Since Woodstock did not have one, he went to Hamilton to Westdale High School, with only enough money in his estate for one year (grade. 9). He then returned to Woodstock to a job making boots at Woodstock Rubber Co followed by employment at Morrow Screw & Nut Co. as a machine operator. He befriended Harry Morrow, who Lou held as a father figure, and he encouraged him to pursue a technical education. Through his Hamilton high school teacher contact, he got a job at Stelco's Canada Works and he now was able to attend night school where he got a diploma in drafting.

War duty called but with one weak eye, he was not suitable for Navy or air crew, so in 1942 he joined as Aero Engine Mechanic. He married Nellie in 1943. After several RCAF training schools, he was posted to 168 Squadron at its home base Ottawa. He went through the ranks to become a flight sergeant, flying over the Atlantic with mail & medicals to the troops via detachments in England, North Africa, and Italy. In the meantime he took correspondent courses in senior high

school mathematics getting credits to enter University. During the winter of 1946-47, he stayed on to close down 168 Squadron.

Then with wife Nellie and baby daughter, they returned to Dundas. He took a refresher course in drafting and got a job with Hamilton Bridge initially, then Lou moved to Cockshutt Plough Co. in Brantford as a quality control inspector.

(Jimmy) J. E.L. Walker, an electrical consultant was looking for a mechanical draftsman for work in "building services" in a firm called Walker Consultants. Lou got hired, but as a draftsman with skills in cams and gears, it was a long shot to get a quick knowledge of steam and hot water systems, plumbing and ventilation. So Jimmy told him to "get some heating equipment technical catalogues, call the sales rep, pick his mind, and go to it." Lou noted that he read the Dunham Bush Hand Book over and over – it was considered one of the best handbooks for the Canadian environment at that time, and with the help of Fred Staut, he was off and running doing heat loss calculations and systems design. In the meantime, he learned a lot about building's electrical distributions, intercom systems, and fire alarms from Jimmy Walker and his crew i.e. Herb Millbank, Elmer Hartwig, and Albert Pastor. Through osmosis Lou had now become a 'building services designer'. Walker Consultants operations peaked during the province-wide conversion from 25~to 60~power. It was at this point that Lou joined ASHVE, the predecessor Society to ASHRAE) in 1952. Other mentors in this period who help to add to his knowledge of HVAC were A.O. Smith, Don Harper, Ken Crean, Dick Fahey.

After a time of selling GE Heating equipment Lou joined Orm Moffat Engineering. At Moffat, opportunities expanded for Lou and he became chief draftsman, a project coordinator, a spec writer, plus he supervised graduating engineers hired on with Moffat. With up to a staff of 15 to 16, they were involved in the building designs at various buildings at McMaster University – the Whidden residence, the Nuclear Reactor facility and the new Engineering Bldg plus other smaller buildings. Moffat also worked at an assembly plant for Chrysler in Windsor, the boiler plant addition to St. Joseph Hospital in Guelph, Hotel De Hospital in St. Catharines, and in the province of Nova Scotia plus many school and hospital 'up grades' in Dundas and Hamilton. This was the time our local ASHRAE, Hamilton chapter was being chartered -1959.

Lou then joined Len Huget Architects as building services designer. In the boom years of the 1960s Huget completed a school project about every 4 to 6 months. They did the 1st stage of Albright Gardens retirement-nursing home in Beamsville. Huget also did projects in K-W, the PUC Bldg and the County Court House plus several churches projects. Lou was always attending seminars or night classes to keep abreast of

new technology. Len encouraged him to join Toastmasters to overcome his complaint of being intimidated at job meetings by the hardnosed trades foreman, or when he forgot to bring up a point he intended to say. He ended becoming president of the then local Skyway Toastmasters. Interesting, I joined the same organization at that time for much the same reason.

After designing the HVAC system of the Comstock Co. Burlington's office for Fred Armitage, Lou was contracted out to Gates Rubber Co in Brantford to solve their heating and ventilation problems. He turned down offers to join Gates and relocate his family. Lee Eull asked him to join the consultants -Walter, Eull, Elliott as a HVAC designer compiling design criteria for high rise apartment buildings.

Lou is a Christian and his hobby is singing so at this time, he and his church young people joined the Bach Elgar Choir. This led him into Barbershop Harmony singing which became his love. Their rehearsals and evening activities conflicted with the chapter meeting nights so Lou was not able to attend many chapter meetings.

He next joined Jack Elliot of Goodram Bros. Plumbing and Heating to set up a drafting office (shop drawings & ductwork design) with a crew of 5, for projects like hospital renovations, Brock U., Inland Waters, and McMaster Health Sciences 'MUMC' (spine contract). At this time he joined OACETT as a Sr.C.E.T.

In 1972 he was called to join Len Auger's Planning & Construction Dept. at McMaster University as a Draftsman-Field Supervisor. It was here the rat race atmosphere finally subsided. Lou was responsible for tracking all the past and in coming 'as built drawings'. Lou also did feasibility studies on proposals for McMaster's Board of Directors. As his work was mostly administrative, he took courses for the C.A.M. entry. Later in 2001 they honored him as Fellow of the Institute.

From this semi-retired work atmosphere, he retired in 1987, and did a bit of stock trading.

He has conducted several choirs and still sings in his church choir, the 'Ancaster Albertones', and 'The Periscopes' quartette. He and Nellie have 3 children, 8 grandchildren, and 5 great-grand children and another on the way.

Lou continues to be a strong investor in ASHRAE Research and contributes to the Life Member Club bursaries regularly.

*Submitted by George Menzies, P. Eng.,
Student Activities Chair & Historian 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
February 7, 2006	Heating Systems	Glen Bradley, P. Eng. <u>Maxon Corporation</u> Burner Technology		Sandra Cooke, MAsc., P. Eng. <u>TSSA</u> Changes to Heating Codes
March 7, 2006	Air Distribution	ASHRAE 62	O'Dell / Titus Thermal Diffusers	Jim Ashwegan Titus VAV & FPVAV Applications
April 4, 2006	Research	t.b.d.	t.b.d.	t.b.d.
May 2, 2006	Commissioning	George Menzies, P. Eng. <u>George Menzies Consulting</u> ASHRAE Structure		Bill McCartney <u>Isotherm Engineering</u> Commissioning (Denver Symposium Paper)
June 7, 2006 (Wednesday)	Social /Research	Legends on the Niagara – Niagara Falls Annual Golf Tournament		

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