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AMERICAN SOCIETY OF
HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS
JANUARY 1995

PROGRAM

DATE: January 17, 1995

THEME: STUDENT NIGHT

SPEAKER: JEAN BOUVRETTE
Technical Services, Biodôme of Montréal

Graduated from the University of Sherbrooke in 1984, Mr. Bouvrette has worked for 8 years in the private sector at the operations and manufacturing levels. This experience has allowed him to implement the technical services at the Biodôme.

The biggest challenge of the Biodôme project involved coordinating the end of the work, and hiring and training the team that would be in charge of the equipment start-up at the opening of the Biodôme in June 1992.

Mr. Bouvrette is currently Supervisor of the Technical Services Unit and along with a team of 25 persons, he is responsible for the operations and maintenance of all the electromechanical equipment supporting the public as well as the technical areas in order to meet the research, conservation and education missions of the Biodôme.

SUBJECT: BIODÔME

The Biodôme was inaugurated in 1992 and has been operating for two years. It was erected in the old Vélodrome which was built especially for the 1976 Montreal Olympics. The architecture of this building offers a large, open surface with 58 skylights at the roof. Four standalone ecosystems were built under an environmental concept that is more appropriate for the year 2000. The four ecosystems group together the flora, marine and land animal-life as the Biodôme is designed to be a nature interpretation centre whose three most important missions are: education, research and conservation.

Complete filtering, water and air recycling systems operate continuously to maintain the typical weather and environmental conditions of the represented ecosystems. Atmospheric control for each ecosystem is provided by specially designed ventilation systems. A large variety of equipment is used to operate the different air and hydraulic systems which are controlled and monitored by a computerized system.

This presentation discusses how the air is treated and what temperature and humidity levels are required. Also, the sophisticated control systems are discussed as well as the water treatment requirements which are adapted to the needs of the different species.

MENU

Tossed Greens
Veal Parmigiana
Potato Wedges
Vegetable
Fresh Fruit Torte

SOCIAL - 17:30 Hrs

DINNER - 18:30 - 20:00 Hrs

PROGRAM - 20:00 Hrs

Phileas Fogg Metropolitan House
99 Bank Street, MacDonald Room

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Special Events

Chris Healey

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Table Top

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PRESIDENT'S MESSAGE

Happy New Year - Bonne Année!!!

Here we go... A brand new calendar year and a fresh new century - we are starting our 101st year as a technical society! Moments like these force us to develop a sense of perspective. Where do we come from... Where are we going?

It's so easy to get caught up in the hectic pace of life today with so many demands of our time, so many obligations...

What is changing? How will it affect us? Are today's challenges more important and more dramatic than yesterday's? Will we adapt?

ASHRAE, although held in very high regard in many circles, has see-sawed dramatically in recent history with it's air quality/ventilation standard. How will we look ten years from now on the CFC issue? Is 90.1 tough enough? Are those "in the know" getting involved enough to make a difference?

One of the main reasons ASHRAE exists is to promote the exchange of information between individuals and generations. Will your firm make the transition? Are you training staff? Are you hiring junior people/students?

These questions are just food for thought. I wish you much prosperity and good health in whatever portion of the next century you are graced with.

Pierre de Gagné

TECHNICAL SESSION

Pump fundamentals: this will be a great introduction or refresher session on pump types, selections, characteristics, along with specific applications.


Keith Murfin, sales manager of The Arthur S. Leitch Company Limited will be presenting the topic with a discussion period following the presentation.

Looking forward to seeing you there.

Location: Phileas Fogg Dining Lounge at 16:30 hrs.
Tuesday, January 17, 1995.

CRC ACTION COMMITTEE

ASHRAE activities at the Regional level and at the overall Society level are based on input from the chapters. Members of the Ottawa Valley ASHRAE Chapter are invited to submit suggestions, comments, complaints, opinions or compliments, regarding the functioning, organization and activities of ASHRAE. Please contact the CRC Action Committee, David Eastwood. Tel: 230-1186, Fax: 230-2598.



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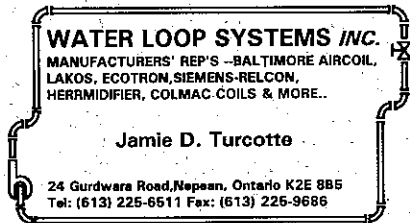


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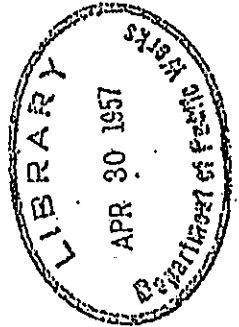
Documents relating to the construction

OF THE

PARLIAMENTARY AND DEPARTMENTAL

BUILDINGS AT OTTAWA.

QUEBEC, 1862.



CORRESPONDENCE.

Montreal, 14th January, 1860.

No. 32.

44305.

To the Secretary of Public Works,
Quebec, C. E.

I do hereby offer to supply all the materials, construct, erect and put in successful operation all the works and machinery necessary for heating and ventilating the Parliamentary and Departmental Buildings at Ottawa (with the exception of excavation, masons', bricklayers' and joiners' work, as I notice by the builders' specifications that such work is included in their contract), and herewith submit for consideration, four systems for warming the Buildings, any one of which I am willing to guarantee.

First.—Warming by steam, on the vault system, for the sum of sixty-one thousand, two hundred and eighty-five dollars (\$61,285.00.)

Second.—Warming by hot water, on the vault system, for the sum of seventy-five thousand, six hundred and eighty-five dollars (\$75,685.00.)

Third.—Warming by steam, on the coil system, for the sum of sixty-six thousand, three hundred and forty-two dollars (\$66,342.00.)

Fourth.—Warming by steam-pipes, placed in grooves, sunk in floors and covered with iron gratings, for the sum of fifty-seven thousand, one hundred and thirty-one dollars (\$57,131.00.)

I send herewith plans and descriptions of the vault system, together with the descriptions of the two other systems made as explicit as possible. Should you, however, require further information on any of the proposed systems, I will be happy to give you any further details &c., that may be required. I enclose herewith letter signed by Messrs. William Parlyn, John Ostell, and Alex. Levy, all of this city, who are willing to become my securities.

I have the honor to remain,

Your obedient Servant,

CHARLES GARTEL

DEPARTMENT OF PUBLIC WORKS,

This tender was received at 10.50 A. M.

January 16th, 1860.

SAMUEL KEEFER, Deputy Comr.
T. TRUDEAU, Secretary.



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TELEPHONE COMMITTEE NOTICE

If you plan to bring any guests to this or any future meetings, please help out our telephone committee by advising the telephone committee caller. If you have not been receiving a phone call prior to the meetings, please advise Mike Swayne at telephone number 828-2000 or fax at 828-1011.

TABLE TOP DISPLAY

This month's representatives of "Ted Digel Sales" will be providing a showcase of the Stulz Ultrasonic Humidification Line. Drop by to learn more about energy savings available by Ultrasonic Humidification.

Contact Jim Mills at 828-2000 for more information on presenting a table top display at upcoming meetings. The 1994-1995 rate is unchanged from last year at \$100.00 per display.

SPECIAL MEALS

We have been informed individual meals can be prepared for members and guests having special dietary requirements or requests. The catering office can provide meals suitable for diabetics, no pork, vegetarian, etc. Please note that a minimum of 24 hours notice to the catering office is necessary. Arrangements can be made through the telephone committee each month or by contacting Norman Darlow of the catering office directly at 233-5615.

Our thanks to Morrison Lamothe catering staff for making this possible.

MEMBERSHIP NOTICE

Welcome to the following new members of ASHRAE:

- | | |
|---------------------------|--------------------------------------|
| Harvey Berg | I-Stat Corporation |
| Mark Wayne Brillon | Rose Technology Group |
| c Ellie L. Cochien | N. Haitas & Associates |
| c Dan W. Grant | Walmar Agencies |
| Richard Goupko | McNeeley Eng Consultants Ltd. |
| c Peter Krajcovic | Goodkey Weedmark & Assoc. |
| Frederic Laforge | Regulvar Inc. |
| c R. Craig Pickering | Modern Mechanical Inc. |
| Ronald Price | Annectron Ltd. (Carleton Place) |
| c Joel Primeau | Primeau Consulting |
| c Bruce Strathern | 3M Canada Ltd. |
| c Jamie D. Turcotte | Water Loop Systems Inc. |
| Dr. Aleksandar M. Vukovic | Advanced Combustion Technology (EMR) |
- c = Chapter Member also

These names together with any additional new members whose applications were received by ASHRAE Headquarters, prior to January 1, 1995 will be included in the drawing at this January meeting.

STUDENT NIGHT

January 17, 1995 is ASHRAE Student Night. Please encourage our active student members by being a sponsor. A \$20 donation will help student members attend the student night chapter meeting and experience first hand the benefits of ASHRAE participation. Look for Education Committee members collecting donations at the January meeting. Thank-you.

This year we have two student chapters, Ottawa and Algonquin and we will be presenting the charter and banner to each branch. In addition, 94/95 awards for students will be presented.

ASHRAE OTTAWA VALLEY CHAPTER - REMAINING MEETINGS SCHEDULE 1994 / 1995

February 21	Refrigeration	Compressors - Types/Technology	Update on CFC - John Smale
March 21	Government Affairs & Research	Ontario Building Code - Building Energy Requirements	ASHRAE 90.1 Electrical / Mechanical Aspects
April 18	Energy	Commissioning of EMCS, Third Party Financing	1/2 Day Seminar
May 16	History	Heritage Buildings History of Carrier Corp	Tour of an Historical Building

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CENTENNIAL YEAR 1994

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Centennial

1894-95 ~ 1994-95

As we close out 1994, we also come to the end of ASHRAE's Centennial year. In addition to our Chapter's Centennial meeting last May, we had the honour to host the Centennial CRC for Region II (Eastern Canada). Historical highlights of this conference were the tours of the Chateau Laurier, Cliff Street Plant and the Centennial display room featuring historical displays from every chapter and Atlanta headquarters.

As a finale to the year, your Chapter Historical Committee takes you back 135 years to the successful mechanical tender for the original Parliament Buildings (see enclosed). This is part of some extensive documentation unearthed by Historical Committee member Jake Klassen. It is interesting to note that Mr. Garth received an order for Alternate 1 rather than the lowest priced Alternate 4 proving that even 135 years ago, "Her majesty may accept any tender, whether it is the lowest or not..."
- Paul Baker

CHAPTER DOES NOT ACT FOR SOCIETY



ASHRAE, Ottawa Valley Chapter Board of Governors
can be reached at P.O. Box 21088, 151A 2nd Avenue, Ottawa, Ontario K1S 5N1

Publication deadline is the first Tuesday of each month

The Editor - Rod Lancefield

Fax: 725-9706

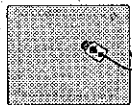
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