



Capital Communiqué

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

<http://www.ashrae.ottawa.on.ca> OTTAWA VALLEY CHAPTER e-mail: contact@ashrae.ottawa.on.ca

April 2003

PROGRAM

DATE: April 15, 2003

THEME: RESEARCH

PROGRAM: Dedicated Outdoor Air Systems (DOAS) and their Inherent Problems

OVERVIEW: Dr. Mumma will present his view of DOAS, including in depth psychometric analysis. Then he will discuss why he is convinced engineers are seriously considering them. The reasons are based primarily upon the following six propositions:

1. Ventilation air distribution uncertainty in all air VAV systems.
2. Excess OA flow and conditioning required for all air VAV systems.
3. VAV box minimum settings must be surprisingly high.
4. Inability of most all air VAC systems as currently designed to decouple the space sensible and latent loads and to provide adequate environmental safety.
5. Significant first and operating cost savings can be realized when the DOAS employs total energy recovery as required by ASHRAE Standard 90.1-1999.
6. Ceiling radiant cooling may be the optimum parallel sensible cooling approach to use with the DOAS.

SPEAKER: DISTINGUISHED LECTURER, Dr. Stanley Mumma is currently a Professor of Architectural Engineering at Pennsylvania State University. Prior to joining Penn State in 1984, he did his undergraduate studies in Mechanical Engineering at the University of Cincinnati, and his graduate work at the University of Illinois at Urbana-Champaign. Since earning his Ph.D. in Mechanical Engineering in 1974, he has also held faculty positions at Ohio State University and Arizona State University. His recent interests include innovative ways of meeting ASHRAE Standard 62 in an energy efficient fashion. That work has led to his current intense interest in dedicated outdoor air systems (DOAS). In the year 2001 alone, he published 14 papers on the subject and that number continues to grow. During his career, he has 71 peer-reviewed publications and 57 other publications. Two of those publications were recipients of ASHRAE best paper awards. He has also received ASHRAE's Distinguished Service Award, the E.K. Campbell Award of Merit, and the grade of Fellow. Currently Dr. Mumma is a Board-appointed trustee of the ASHRAE Learning Institute.

PLACE: Capone's Banquet Facility, Nepean Sportsplex, 1701 Woodroffe Ave, Nepean

MENU

Spinach Salad with Mushrooms & Walnuts, in a citrus Vinaigrette, Chicken Parmigiana, Tomato Basil Bow Ties, Seasonal Mixed Vegetables, Fruit Flan

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Communiqué

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Table Top

Gary Hartmann

Telephone

Sylvia Wallace

Greeters

Ray Young

Roster

Kevin Toll

Home Page

TBA

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PRESIDENT'S MESSAGE

Spring is finally here; well I hope it is! This month, our Chapter is fortunate enough to have a Distinguished Lecturer, Dr. Mumma, as our Technical Speaker.

The Distinguished Lecturer Program, established in July 1996, has increased attendance by 39% at chapter meetings according to figures released at the 2000 Winter Meeting in Dallas. There are 22 Distinguished Lecturers currently available, whose expertise covers a broad spectrum of the HVAC&R industry and they are quite difficult to get! Mark your calendar, invite a colleague and join us for a most interesting evening.

I look forward to seeing you on April 15, 2003.

Lan Chi Nguyen Thi, P.Eng.

TECHNICAL SESSION

Update of the ASHRAE Learning Institute and the Activities of the Central Pennsylvania ASHRAE Chapter

During this technical session, Dr. Mumma will be providing an update of the progress and activities on the ASHRAE Learning Institute. Dr. Mumma can provide us with the insight and first hand accounts, as he is a Board-appointed trustee of the Institute. In addition, during the session Dr. Mumma will give us a brief overview of the activities our fellow ASHRAE members in the Central Pennsylvania Chapter are up to.

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TABLE TOP DISPLAY

HTS Engineering will be presenting LAKOS Separators. This innovative company manufactures a comprehensive line of Centrifugal Action Separators and Sand Filters. These products feature unsurpassed efficiencies in the industry as well as outstanding serviceability.

Jay r Smith will exhibit their line of Laboratory Enterprise Safety equipment, from Pegas

For future tabletop presentations please contact Gary Hartmann @ Breck-Mar Sales Ltd.
Tel: 613-728-0060
Fax: 613-725-2637
e-mail: gary@breck-mar.com

ASHRAE OTTAWA VALLEY CHAPTER MEETING LOCATION

Our meeting location is **Capone's Catering** at the Nepean Sportsplex, 1701 Woodroffe Avenue, Nepean. We meet in the "Richmond Room". Enter Capone's from the rear of the Sportsplex at Entrance #4. Parking is available at the rear.

Make sure you lock your car and bring your valuables with you.

WHAT YOU MISSED

A very enlightening afternoon technical session "Sustainable Building Design – What, If Anything Does It All Mean?" was presented by Stephen Pope, Architect, CETC Buildings Group, Natural Resources Canada.

In keeping with the theme of the day, the evening program featured "A Case Study for an Environmentally Sustainable Building - The Mountain Equipment Co-Op (MEC) Ottawa Store" presented by speakers Christopher Simmonds, Principal, Christopher Simmonds Architects, and Leslie Jones, Principal, Leslie Jones & Associates.

Christopher Simmonds introduced the MEC Ottawa as the first C2000 certified retail store in Canada and as a magazine-recognized "top-40 most sustainable designs" project. The owners' core value "To support people in achieving the benefit of wilderness" was a driving factor in the overall conceptualization and design of the store, which features straw bail construction, recycled 12" x 12" timbers and a rock-climbing wall. Particular attention was paid to ensure that all reusable and recyclable material was so used in the construction of the retailer's showcase store.

Leslie Jones reviewed some of the mechanical and electrical features of the project. In this aspect of the design particular attention was paid to learning from other locations' shortcomings. The store does not utilize any PVC material and is CFC and HCFC free (refrigerant is 407A). Building automation strategies utilize time-of-day and time-of-year programming, night set back, CO2 reset and automatic setpoint adjustments dependent on outdoor air conditions.

Finally, Chris Frauley asked the membership to take note of the upcoming LEED (Leadership in Energy & Environmental Design) Training Workshop to be held Tuesday April 8th at Canada Post Headquarters.

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STUDENT ACTIVITIES

School Presentations

Have you ever thought of doing a presentation on “What Engineering Is” to a group of students in either elementary or secondary school levels? A presentation on how something works, a scientific phenomenon of some sort or simply explaining what scientists do in their everyday work. ASHRAE encourages its members to go out to schools and awaken young minds to the world of science through teach-ins. This is all part of ASHRAE's kindergarten to grade 12 program. We also receive valuable PAEO points for this activity. Thanks to the members that are already involved in doing presentations to school groups. Please contact me if you need further information.

Donating Old ASHRAE Handbooks

If you are interested in making a donation of old handbooks to a Student Branch, please contact me directly to make arrangements. These are very much appreciated. Thank you.

Patric Renault email: patric@dilfo.com
Student Activities Chair
613-741-7731

MEMBERSHIP PROMOTION

The Ottawa Valley Chapter would like to welcome Heather Garner and Corey Reynolds as new society members to our area. We would also like to congratulate Wellesley Baker for advancing from student member to associate member.

It is that time again when your friendly neighborhood membership promotion committee members will be calling to remind you to please pay your annual society dues. If you have not already paid your society dues for this year, please do so as soon as possible.

If you require society and/or chapter application forms, they are available on line at www.ashrae.org and www.ashrae.ottawa.on.ca. There will also be forms available at the next chapter meeting or you can contact Robert Lefebvre at 727-5111, rlfebvre@gwal.com.

Robert Lefebvre, P.Eng.
Membership Promotion Chair – Ottawa Valley Chapter

CURLING BONSPIEL

The Curling Bonspiel, on March 28, was a great success thanks to all the participants, sponsors and the excellent work of Chris Healey, Christine Kemp, Dorothy Weitzenbauer, Cathy Godin, and of course the beer! The winning team was EngAIR and the horse's ass trophy went to the Trane all girl team. Stan Millross did a great job as emcee, not less was expected, and the evening raffle raised \$474 for ASHRAE Research Canada.

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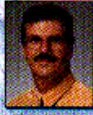
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VENTILATION & FILTRATION PRODUCTS

1955-56

The first meeting of the 1955-56 season was held on October 18th 1955 at the New Prescott Hotel with the Chapter President E. Schoenherr presiding. The committee Chairmen for the year were announced as follows:

Finance - C. Watson
Membership - I. Goodman
Attendance - C. Shock
Publicity - J. Klassen
Entertainment - J. McCaughey
Legislation - N. Howes

The annual golf tournament, which for the last two years had been held, at the invitation of and in conjunction with, the Montreal Chapter at Lachute in Quebec, might be moved. It was stated that the Montreal Chapter may be changing the location to a Golf Club on the outskirts of Montreal and if such was the case, the Ottawa Chapter would take steps to hold their own tournament at a local club. The C.A. Dunham Trophy, for Annual competition at the Chapter Golf Tournament was presented to the chapter and accepted by the president. The name and year of the winner would be inscribed each year. The Trophy was then presented to the winner Allan Grey. J. Klassen suggested an educational program be setup within the local chapter to help local trade schools and institutions. The topic was discussed at great length. W. Robinson pointed out that this Society should be the leader in education in the Heating, Ventilating and Air-Conditioning field. The president then read an article based on misleading claims in connection with modern Air-Conditioning appearing in newspapers and magazines. It stressed that the average person is highly ignorant of the newest innovations in the field of comfort within buildings. The president concluded by stating that members of the A.S.H. & A.E. are the logical outlet in educating the public in the true meaning and function of Air-Conditioning. The speaker for the evening program was Mr. Lentz, head of the research section of the division of applied biology, National Research Council, Ottawa and his topic was 'The refrigeration of food and food storage and freezing as applied to refrigerated railway cars'. At the November meeting the alternate delegate for the Chapters Conference, D. Banton, was announced. The speaker for the evening was Mr. E.W. Duncan, sales manager commercial division of the Minneapolis-Honeywell regulator company of Toronto. His topic was 'Electronic controls as applied to air-conditioning'. At the January meeting, Mr. John Fox of Toronto Canadian Representative, member council, extended greetings to the chapter in his annual message. His report dealt with the by-law changes affecting the regional organization of the society.


Canada would become Zone 7 and each zone would be represented by a regional director.



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Table Top

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Greeters

Ray Young

Roster

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Home Page

TBA

Al Oakes Award

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The first regional Canadian meeting of the Canadian Chapters would be held in Toronto, Canada on April 9th 1956. At this meeting the Canadian representative to represent Zone 7 would be elected. There had been some doubt as to whether the British Columbia Chapter would stay with the Canadian Zone 7, which included Edmonton, Calgary and Winnipeg in the west. The program for the evening was the Chapter's annual open discussion night, the topic 'Specifications'. The chapter was honored by the presence of Mr. C.R.O. Munro, an honor graduate of the University of Toronto, practice law in Vancouver. He served during the war as a merchant marine and is now with the department of Justice. At the February meeting it was announced that the Ottawa Chapter would hold its own Annual Golf Tournament in Ottawa. Mr. D. Banton reported on the 62nd annual Meeting of the Society in Cincinnati, Ohio. The by-laws would have to be updated to reflect changes in membership grades and the regional committee. Society research expenditures for 1955 were \$205,000; a total of 10,200 Society members. The guest speaker for the evening was Mr. John Coats, Sales Manager of Sarco, Canada Ltd., Toronto. His subject was 'Steam Trapping'. During the March meeting it was decided that the Chapter would accept a Montréal invitation to the Lachute Golf Tournament in addition to the First annual Ottawa Chapter Golf Tournament. The speaker for the evening program was postponed. At the April meeting it was reported that a few other meeting locations, Chateau Laurier and The Whitehill Glades were investigated as possible alternates to the Prescott Hotel. However they both ended up being more expensive with less room and parking troubles. The Guest speaker for the evening program was Mr. Frank O'Neil, special production application engineer of Trane Co. of Canada. His subject was 'Fans and Coils as applied to Ventilation'. The final meeting of the Chapter for the 1955-56 season was held on May 15th at the Prescott Hotel. The secretary read the letter of appreciation received from Dr. J. Willis, Indian and Northern Health Services, Dept. Of National Health and Welfare for the gifts of toys sent to Moose Factory Indian Hospital. The report on the first all Canadian chapters regional meeting held in Toronto was issued. One important resulting from this report was that next year's meeting would be held in Ottawa. The new board was elected into office as follows:

President - D. Banton
Vice-President - C. Watson
Secretary - J. Klassen
Treasurer - A.H. Hargreaves

Board of Governors - A.Gray, A.L. Lawson, & G.A.Wild



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Table Top

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Home Page

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President E. Schoenherr then handed over the gavel to incoming president Mr. D. Banton. The new president on behalf of the Chapter presented Mr. E. Schoenherr with an engraved silver tray in appreciation of his high standards and chapter activity.

Key events in Ottawa's History during this year:

Prime Minister: Louis St. Laurent (1948-57) Liberal

Governor General: Vincent Massey (1952-59)

Canadian Dollar: \$1.01US

Date Event

1955 Ray Kroc launches the McDonald's franchise.

1955 The polio vaccine is declared safe for use.

1955 Rock music gains momentum with Bill Haley's *Rock Around the Clock*

and Chuck Berry's *Maybelline*.

January 1st 1855 100 years ago Bytown incorporated as a city is renamed to Ottawa.

January 17th 1955 Mayor Charlotte Whitton adopted Ottawa Coat of Arms designed by Alan Beddoe.

August 8th 1955 The Canadian National Railway yards were moved to Walkley Road.

October 29th 1955 The National Film Board was moved from Ottawa to Montreal.

Stanley Cup & events in NHL

Montreal Canadians

-NHL announce a rule change. Players receiving minor penalties will return to the ice as soon as the opponents score a goal. Previously, teams spent the full two minutes shorthanded. The change is due to the potent Montreal Canadians' power play.