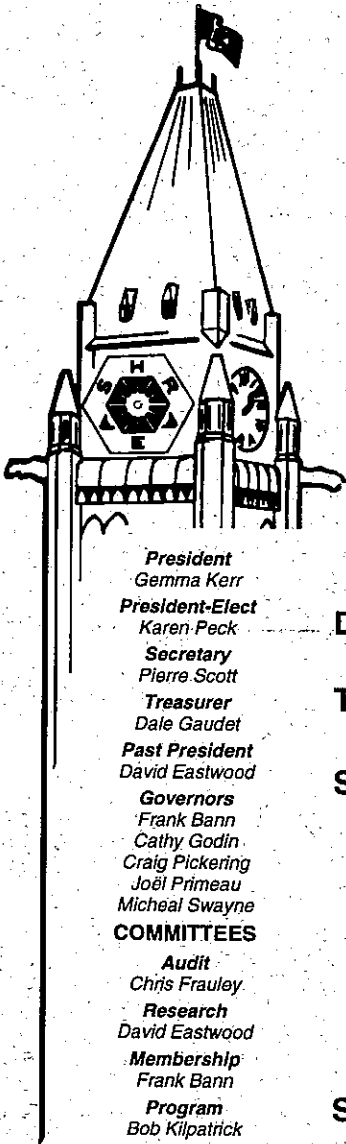


Capital Communiqué

AMERICAN SOCIETY OF
HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS

MARCH 1997

PROGRAM



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Subash Vohra
- CRC Action*
Karen Peck

DATE: March 18, 1997

THEME TECHNICAL / ENERGY & RESEARCH

SPEAKER: DENNIS STANKE
Senior Principal Applications Engineer, Trane Company





Mr. Stanke holds a BSME from the University of Wisconsin in Madison and has been with the Trane Company for 23 years. As an applications engineer, he specializes in airside systems, ventilation and controls. He has written numerous Applications Manuals, Engineering Bulletins, and Engineers Newsletters, as well as several trade magazine articles. He's an active member of ASHRAE and presently serves on SSPC62.

SUBJECT: ASHRAE Standard 62-89(R)

ASHRAE Standard 62-89 has been rewritten using more of a code language as opposed to its current guideline tone and it will soon all become law. Mr. Stanke who is an active participant in the rewriting of this new standard will describe the new indoor air quality requirements for design, installation, operation and maintenance. The new standard has clearer and more specific responsibilities for engineers, manufacturers, operations and building owners. He will discuss the issues of condensate management, cleanability, accessibility, humidity control and space ventilation.

MENU

- Tossed Salad with Choice of Dressing, Pasta Salad, Coleslaw,
- Roast Sirloin of Beef, Roast Chicken, Vegetarian Lasagna, Greek Style Potatoes
- Dinner Rolls and Butter, Cheesecake, Coffee and Tea
- Buffet dinner with served dessert and coffee.

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|  <p>RODERICK J. LANCEFIELD, P.Eng. Territory Manager Capital Region</p> <hr/> <p>CARRIER CANADA LIMITED Baxter Centre, 1050 Baxter Road, Ottawa, Ontario K2C 3P1 Tel: (613) 820-7810 Fax: (613) 820-9462 Watts: 1-800-551-8385 Cal: (613) 761-2760</p> |  <p>WALMAR VENTILATION PRODUCTS MANUFACTURERS, AGENTS & DISTRIBUTORS</p> <p>RANDY CAVILL, C.E.T. Vice-President</p> <p>TEL: (613) 225-9774 FAX: (613) 225-2972 24 GURDWARA ROAD, NEPEAN, ONTARIO. K2E 8B5</p> |  <p>MODERN MECHANICAL INC. MECHANICAL CONTRACTORS & ENGINEERS</p> <p>John R. McAninch, P.Eng. PRESIDENT</p> <p>85 Denzil Doyle Court, Kanata, Ontario K2M 2G8 Tel.: (613) 591-7505 Fax: (613) 591-1523 e-mail: modernmech@igs.net</p> |  <p>X-L-AIR</p> <p>X-L-AIR OERI CONT</p> <p>1357 Second Line Road Fax: 613-839-1803</p> |
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PRESIDENT'S MESSAGE

It's March, spring is almost here, and we have a great month of activities planned. The speaker at our Chapter meeting this month is noted for his excellent presentations, and he is talking about a topic of considerable interest, the new ASHRAE indoor air quality standard. Standard 62 is widely used in North America, and is one of the most important IAQ standards worldwide. The new version, in public review at the moment, is very different from earlier versions, and the writers have made strong efforts to produce a more practical and easily applicable set of procedures. Come and find out more about it!

Don't forget our Curling Bonspiel, the same week as the Chapter meeting. As indicated in last month's newsletter, things have changed a bit since the first one in 1980, but the opportunities for fun and relaxation are just as good. See you there!

Your President,
Gemma Kerr
Phone 745-3493
Fax 745- 3154

RESEARCH



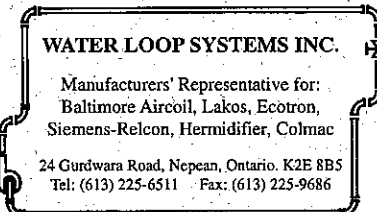

Research is our theme for this month. Research is one of the strong cornerstones of ASHRAE (Remember "Building on the Shoulders of Giants?") We ask for your positive response when you are solicited. (Solicited for Research that is.)

TECHNICAL SESSION

TOPIC: Ductwork Design for Effective Air Balancing
LOCATION: Hellenic Centre
WHEN: 4:45 p.m.
SPEAKER: Marc Desjardins, Kanata Air Balancing

Marc will give a presentation on the do's and don'ts of ductwork design from an air balancer's perspective, including guidelines on when and where to use dampers, splitters, turning vanes, air extractors, etc.

Kanata Air Balancing is a well known and respected balancing firm in the Ottawa Valley and Marc has a wealth of personal experience to share. This will be a unique opportunity to ask those questions that have been bothering you. If you are involved in the design or construction of ductwork systems, this session will be of interest to you.

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|--|---|---|---|

Invitation to Attend an afternoon session on

Green Office Technologies

sponsored by...

ASHRAE

(American Society of Heating, Refrigerating & Air-Conditioning Engineers) - Ottawa Valley Chapter

GBIC

(the Green Building Information Council), Ottawa

Natural Resources Canada

(NRCan)

Public Works & Government Services Canada (PWGSC)

Environment Canada

When & Where: April 15, 1997
1:00 pm - 5:00 pm
580 Booth Street
in Camsell Hall
Ottawa, Ontario

Presentations by leading experts on Occupant Controlled Environments, including occupant controlled HVAC and lighting systems using integrated controls & Strategies as well as the incorporation of environmentally responsible alternatives to office design.

Includes opportunities for guided tours of installations based on Green Initiatives and occupant-controlled systems integrated into the 580 Booth Street office of Natural Resources Canada.

Green Office Technologies

At this seminar you will learn about:

- the basic technology and most recent developments in Occupant Controlled Environments;
- operating displays of occupant controlled integrated lighting & HVAC systems;
- economics of occupant controlled systems and their potential for productivity enhancement;
- field test results from McGill University;
- user responses to installation of occupant controlled systems;
- Federal government approaches to Green Offices.

Background: As part of an on-going renovation, in conjunction with Public Works & Government Services Canada (PWGSC), Natural Resources Canada (NRCan) initiated a Green Office project reflecting the department's green goals. This green floors renovation project included aspects of energy efficiency, indoor environment quality, including occupant controlled technologies and overall reduced environmental impact.

These presentations will highlight some of the key lighting and HVAC technologies applied in this green floors renovation project, and elsewhere, and will allow for discussion of the results of the extensive monitoring.

Background to GBIC: The Green Building Information Council is a national not-for-profit organization established with the mission to advance the energy and environmental performance of buildings through the creation, exchange and application of appropriate and timely information.

GBIC Telephone Number: (613) 232-2330.

Green Office Technologies

Registration Form:

Return this form, along with your payment to:

The Green Building Information Council
130 Lewis Street
Ottawa, Ontario, K2P 0S7
Phone: 613 232-2330, Fax: 613 232-7018

- Purchase Order VISA Cheque
 Credit Cards Master Card

Amount: _____ Exp. Date: _____

Name: _____
(Full name appearing on Credit Card)

Title: _____

Org: _____

Address: _____

Tel: _____

Fax: _____

email: _____

Cost: For Registration before April 15th.
\$30 including G.S.T.
For GBIC Members, ASHRAE Chapter Members and NRCan Employees.

For Registration before April 15th.
\$40 including G.S.T.
For Others.

\$50 for those invoiced at the door -
(No monies will be taken at the door)

Who Should Attend?

- Professionals concerned with the provision of HVAC and lighting services in commercial office buildings;
- Managers concerned with productive work environments;
- Federal government managers responsible for fit-up;
- Federal government managers responsible for energy efficiency programs;
- Commercial office owners and managers;
- Facility managers;
- Industrial hygienists.

Displays participants will include:

VCI Controls

- walk in working model of occupant controlled environment

NOCOM

- modular wiring components

Public Works & Government Services Canada

- lighting display

Natural Resources Canada

- multi-media display of Green Floors technologies

Optimum Energy Products Ltd

- display of desk top energy management devices

GBIC & ASHRAE - information Centres

Location:

Use North Entrance of 580 Booth Street office (between Booth and Rochester Sts.). Camsell hall is to the left after the elevators.

Parking:

There are two parking lots off of Rochester. Limited visitor parking and limited street parking. (There are lots of bike racks...and easily accessible public transportation)

Presenters and Schedule:

1:00 pm: Opening Remarks

Chris Frauley, SNC Lavalin

An active member of ASHRAE, Mr. Frauley is a past president of the Ottawa Valley Chapter. Mr. Frauley will provide the opening remarks.

1:10 pm: Program Overview

Nils Larsson, CANMET Energy Technology Centre, Natural Resources Canada

Mr. Larsson is the Programme Manager for NRCan's C-2000 programme for advanced commercial buildings and will introduce the C-2000 program, the Green Building Challenge '98 and GBIC and the link to "Green Office Technologies".

1:20 pm: Green Government

Berny Latrielle,

Environment Canada

Mr. Latrielle will discuss the concept meant by "Green Government" as it applies to the technology green government front; what Environment Canada and others are doing to "move the yardsticks" and, what this means for you in terms of evolving standards.

1:30 pm: Development of Occupant Controlled Ventilation

Bob Tamblyn,

Tamblyn Consulting Services Inc.

Mr. Tamblyn, a fellow of ASHRAE, will discuss the concept and development of occupant controlled HVAC systems, in particular, the "Zero Complaint" system developed and tested with McGill University.

1:50 pm: NRCan Green Floors Project

Marc Beaudoin,

Natural Resources Canada

Mr. Beaudoin, the Facilities Engineer for NRCan, is the project coordinator for the green floors project and will discuss the experience to date with the two renovated "Green Floors" and the occupant controlled systems.

2:10 pm: Occupant Controlled HVAC

Steven Twiss, Public Works & Government Services Canada

Mr. Twiss was responsible for approving the first large installation of Zero Complaint Units at 4900 Yonge St., North York and acted as the principle contact for the R+D project, and will provide the user perspective on the system.

2:30 pm: Coffee Break

Sign-Up for Guided Tours

2:50 pm: Field Tests of Occupant Controlled HVAC Systems

Joe Pasztor, McGill University

Mr. Pasztor works with the Respiratory Epidemiology Unit at McGill University and has worked on various projects relating to Indoor Air Quality. This presentation will discuss test results of before and after surveys of the application of occupant controlled ventilation at PWGSC offices at 4900 Yonge Street, Toronto.

3:10 pm: Integrated Lighting Design

Ivan Pasini, Public Works & Government Services Canada

Mr. Pasini will discuss integrated lighting and controls with respect to the lighting design at 580 Booth St. and other, upcoming, projects for commercial office buildings.

3:30 pm: Economics of Occupant Controlled Environments

Jack Forrest, Jack Forrest & Associates

Mr. Forrest, a consultant specializing in the Green Electronic Office, will discuss the electronic office, economics of occupant controlled environmental systems, the methodology for field trials and the potential for gains in energy efficiency.

3:50 pm: Hubert L. Stephens, President & CEO, VCI Controls

Hubert L. Stephens, President & CEO, VCI Controls

Mr. Stephens will discuss building automation, control systems and modular wiring as applied to 580 Booth St. and the future integration of lighting and HVAC.

4:10 pm: Open Forum

4:30 pm: Guided Tours

- (1) of the 7th and 13th Green Office floors, conducted by NRCan personnel (groups of 8-10 people);
- (2) operation of occupant controlled ventilation systems, with Remote Control and PC / LAN / BAS control;
- (3) operation of indirect lighting system with occupancy sensors.



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HONoured MEMBERS

Over the years, a number of local ASHRAE members have received ASHRAE awards for distinguished service or technical excellence. These awards represent significant achievements, and their winners have brought honour to our Chapter.

Distinguished Fifty Year Member Award - Outstanding service to ASHRAE and fifty years of membership: George Tamura. *Fellow Grade - Distinction in the field of HVAC&R, with at least ten years as a full member of ASHRAE:* Jacob Klassen. *Distinguished Service Award - Distinctive service to ASHRAE in Chapter, Regional or Society activities:* Lloyd Algie, Jacob Klassen and Dalton McIntyre. *Regional Award of Merit - Significant contributions to ASHRAE at the Chapter and Regional level:* Lloyd Algie, George Carscallen, John Dugan, Simón Jol, Jacob Klassen, Dalton MacIntyre and Ray Young.

To be continued next month with listing of awards for technical papers and life membership.

NEW RESEARCH PROJECT AWARD

ASHRAE recently announced the award of \$108K to Dr. Gary Loughheed of NRC to investigate "Buoyant smoke flow in atrium smoke management" We extend our congratulations to him and his team! Those of you attending our October meeting may remember that he gave an excellent presentation on atrium smoke control. It is good to see ASHRAE's research funds at work in the Ottawa area.

CURLING

Don't forget to book your team for the Annual Bonspiel, Friday, March 21, 1997, 1:00 p.m. - 7:00 p.m., Nepean Sportsplex. Registration has remained unchanged at \$190 per team and space is still available. Call Chris at Walmar 225-0774 or register by fax at 225-2972 to book today. Fee includes ice and buffet dinner afterwards. Slide your registration in today to avoid disappointment.

STUDENT ACTIVITIES COMMITTEE UPDATE

Thanks to your generosity, our Senators tickets raffle raised more money for our students than had been anticipated. The committee would like to thank its sponsors for their gifts of hockey tickets: Craig Pickering, Guy Bourbonniere, Marc Carriere and Steve Roy, Engineered Air and Morrison, Hershfield Ltd. Thank you so much, without your contribution, Joel Primeau and David Bradley probably would have had to raffle their services as personal car washers or a baby-sitters ... they're very grateful. We would also like to congratulate all our winners: Ian McColgan and Keith Galloway, David "I just gotta win every year" Eastwood and Neil "I'm so glad David left me a pair of tickets" Armstrong. Once again, thank you for making our fundraising efforts worthwhile.

TABLE TOP DISPLAY

Taco/Leitch Canada Ltd. & Mechanical Trade Sales will be displaying the following: Bronze & Cast Iron Pumps, Cartridge Circulator, Accum-Flow Measuring Valve, Potable Water Expansion Tank. Please contact Randy Cavill at tel. 225-9774, if you are interested in presenting a table top display at future meetings. The 1996-97 rate is unchanged from last year at \$100.00 per display.

CRC ACTION COMMITTEE

Is there anything you would like to see ASHRAE do? ASHRAE encourages its members to get involved in running the Society. Changes can be recommended through presented at the Chapter Regional Conference (CRC) in August each year. If you have any suggestions, gripes, paper-saving ideas, etc. that you would like to see put forward this year, contact Karen Peck, phone 733-9781 or fax 737-4985.

UPCOMING EVENTS

Thanks to the quick action of our Program Committee Chair, Bob Kilpatrick, ASHRAE Ottawa Valley Chapter was selected as one of a handful of chapters worldwide to host a marquee ASHRAE speaker this year. Take out your personal organizers and circle the 15th of April as an ASHRAE meeting you will not want to miss. Our speaker then will be Mr. James Wolfe. He is a leading authority on the use of refrigerants in HVAC applications. Industry experts have learned to turn to him for information on the issues of ozone depletion and global warming. ASHRAE Ottawa is very fortunate indeed to be offered this excellent speaker; don't miss it!

MEMBERSHIP PROMOTION

The Membership Promotion Committee has made an effort to correct errors/omissions in the Society data base which has been used to create the chapter roster. Please be aware that it is the responsibility of each member to ensure his/her mailing address and phone number is correct and updated. In the event you do notice an error please call ASHRAE Society at 1-800-5ASHRAE. If you are not receiving the communique please call Frank Bann at 727-5111.

The second part of our delinquency program has started up. Please make sure if you have not already sent in your renewal, you do so as soon as possible. A member of the Membership Promotion Committee will be contacting delinquents to remind them to send it in. Please make an effort to send your renewals in, it makes it easier to manage the membership data base.

Employer Recognition program was announced at February chapter meeting. To enter a company in the program simply Mail/Fax/E-mail company name and reason for nomination to Frank Bann at 727-5115 by April 8th, 1997. Company participation in Society and Chapter is a major contributor to the ongoing strength of ASHRAE.

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ASHRAE TRAVEL PLANNING GUIDE

Plan your vacation or business travel to coincide with major ASHRAE meetings this summer.

June 28 - July 2 - Boston, Massachusetts
ASHRAE Annual Meeting

August 14 - 16 - Burlington, Ontario
Region 2 CRC

75th ANNIVERSARY

Mark your calendars! May 5, 1997 is the Toronto ASHRAE Chapter's official 75th Anniversary celebration. Come out and spend the evening with some great Canadians like Dr. David Suzuki and the upcoming Society President, Mr. Donald Holte. We extend our welcome to all ASHRAE members from surrounding chapters who are interested in attending. Seating is limited so book early. For tickets or reservations please call Louise Hope at our ASHRAE office in Mississauga at 905-602-4714. Tickets are \$75 each or \$60 each for groups of 6 or more. We hope to see you there.

TEGA SEMINAR

Just a reminder that the TEGA Committee is sponsoring a seminar on Green Office Technologies on 15 April 1997, in association with the Green Building Information Council (GBIC) and Natural Resources Canada (NRCan). For more information about the seminar please refer to the advertisement pamphlet enclosed with this issue of the Capital Communique. Should you require any further information please contact Phil Mayfield, TEGA Committee Chairman at 787-3871 or fax 787-3884.

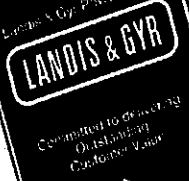
WEB-WISE

Last month's article dealt with the tools and techniques of searching the world-wide-web for HVAC related topics. The addresses of a few search engines were also given. There are a couple of web sites that will help in finding relevant Canadian information. The home page of HVACR at <http://www.hvacr.org> has a good collection of links, including many to businesses in the industry. The "buildingweb" at <http://www.buildingweb.com> contains links to professional associations and government organizations and also provides direct links to many of the popular search engines. Good browsing!

BACK ISSUES OF THE CAPITAL COMMUNIQUE

Back issues of the Capital Communique can be found now on the Chapter's home page at <http://www.cyberus.ca/~ashrae>. This should free up some storage space in your files, and you could also help the environment by recycling the old copies.


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