

AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS INC.

521 COLBORNE STREET, LONDON, ONT N6B 2T6

APRIL 1999

ASHRAE
London Canada

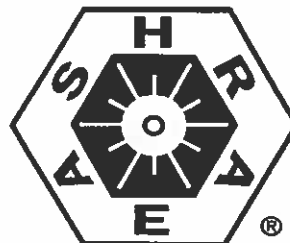
Chapter Program

--- 1998 ---

Tues Sept 29, 1998 - Y2K (Year 2000)
Mon Oct 26, 1998 - Kitchen Ventilation
Mon Nov 23, 1998 ** Joint Meeting **
Dec - Social Event (T.B.A.)

--- 1999 ---

Mon Jan 25, 1999 - Operating Eng. Act
Mon Feb 22, 1999 - Infra Red Heating
Mon Mar 29, 1999 - Trojan Technologies
Mon Apr 26, 1999 - Refrigeration
May - Golf Tournament - June 7, 1999



website: www.execulink.com/tpollard/ashrae.html

NEWSLETTER

Monday April 26, 1999

Speaker: James Calm, P. Eng.

Topic: Refrigeration Night

COMMITTEE CHAIRS 1998-1999

Student Affairs - Lindsay Hird
439-3525 Fax: 439-3857
Refrigeration - Andy Ireland
453-3010 Fax: 453-3024
TEGA - Paul Roszell
680-2380 Fax: 680-2410
Research - Brenda Stonehouse
679-2111 Fax: 661-3801
Historian - Don Johnson
661-3302 Ext 8893 Fax: 661-3801
Membership - Tom Pollard
685-2570 Fax: 685-2570
Reception - Pete Edmiston
471-8410 Fax: 471-3552
Newsletter - Scott Turner
652-1977 Fax: 6529323
Golf Tournament - Hugh Palser
471-9382 Fax: 471-1049

Highland Golf & Country Club- 279 Commissioners Road East

Social Hour - 5:00 pm
Meal Cost - \$ 30.00 Guest

Dinner - 6:00 pm
\$ 15.00 Student

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Speaker:

James M. Calm, P.E
Engineering Consultant

Mr. Calm is an engineering consultant specializing in heating, air-conditioning, and refrigerating systems. Much of his work involves the application and safety of alternative refrigerants. Jim is an ASHRAE Fellow and has served on or chaired numerous ASHRAE committees, including the committees responsible for ASHRAE standards 15 (Safety Code for Mechanical Refrigeration) and 34 (Designations and Safety Classifications for Refrigerants), the task group on Global Climate Change, and the Research and Technical committee. He holds bachelor and master of science degrees from Tufts University and is a registered professional engineer in several states. Jim has published more than 150 papers and reports. Several recent articles on the environmental impacts of refrigerant releases appeared in Science, the International Journal of Refrigeration, Reito (the Japanese Journal of Refrigeration), and Refrigerants for the 21st Century (proceedings of the ASHRAE/NIST Refrigerants Conference). Jim has addressed audiences on refrigerants and refrigeration technologies in more than 20 countries and is a selected speaker in ASHRAE's Distinguished Lecturer's Program.

April Meeting Topic:

**Ozone Depletion, Global Warming and Then
What?**

This presentation reviews the impacts of air-conditioning, heat pump, and refrigeration systems on stratospheric ozone depletion, global climate change, and linkages between them. It then outlines potential future issues and suggests conservative approaches to prepare for them. Ironically, most of these problems can be addressed at lower rather than higher costs. The discussion addresses a frequent question, whether these environmental concerns are real or hoaxes. It concludes with projections on which refrigerants are likely to survive future requirements.

Election Night:

April 26th Will Be Election Night
Make sure you are there!!!

**(Also, we require some names to put forth for
RVC's - Director, Membership, & Program)**

Golf Tournament:

This years ASHRAE London Chapter Golf Tournament will held on Monday June the 7th at Forest City National Golf Club. It will be a scramble (best ball) tournament sponsored by Erie Sheet Metal. The cost is \$95.00 per person, and includes: golf, cart, and buffet dinner (**please foursomes only!!**) Tee-off times are booked from 10:06 am to 12:22 pm. Please contact Hugh Palser (519) 471-9382 to reserve a time. Prize donations are encouraged. Soft spikes are a must (**Metal spike golf shoes will not be allowed on the course**)

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Systems Supervisor

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TEGA: Technical, Energy and Government Activities

One of the primary functions of TEGA is to provide local chapter members with a forum for showcasing their talents through the Technology Awards Program. The London Chapter has had recent success in this program with the Award winning project at the London Art Gallery which was submitted by Jim Dawson and written up in the ASHRAE Journal.

Submission categories for new & existing buildings include, Commercial, Institutional, Health Care, Industrial, Public Assemblies, Residential, and Alternative or Renewable Energy Use. The primary criteria that will be used to judge all submissions are, Energy Efficiency, Indoor Air Quality, Innovation, Operation and Maintenance, and Cost Effectiveness.

With the deadline for this years submissions rapidly approaching, now is the time to start to develop our candidates for next year. Our goal is to have enough Chapter members with projects submitted to allow us to run a "Fun" competition. So bring forward your Innovation of the week and win bragging rights over your peers. The process is simply and does not require much time or detail. Contact TEGA chair for more details.

President's Message:

For this months program we are indeed very fortunate to have as our speaker, ASHRAE Distinguished Lecturer, Mr. James M. Calm, P.E. Mr. Calm's credentials as an international expert in the fields of refrigerants, refrigerant safety and the environmental impact of refrigerants are too numerous to list in this message. For a brief summary, please refer to his bio found elsewhere in this newsletter. In addition to his work for ASHRAE, Mr. Calm has also served on technical panels for the United Nations Environment Programme (UNEP), assessing technical options for refrigeration and air conditioning. He formerly served as Vice President of Research and Technology in ARI and was also Vice President of the Air-Conditioning and Refrigeration Technology Institute (ARTI).

Mr. Calm's qualifications make him particularly suited to address our April "Refrigeration Night" meeting on the issues of ozone depletion and global warming. Although the ozone issue has been well documented and addressed by the Montreal Protocol, the issue of Global Warming is just getting going. The following facts were recently reported in issues of the Washington Post and a December 1998 issue of the Global Environmental Change Report (GECR).

Washington Report: "U.S. and international scientists officially declared 1998 to be the hottest year on record as worldwide temperatures continued an upward march that many experts partly attribute to man-made 'greenhouse gases.' The worldwide average surface temperature, about 58 degrees Fahrenheit, was about 0.27 degrees above the previous record set only a year ago and surpassed the 30-year norm by a full degree, the World Meteorological Organization (WMO) said in an annual report on climate.

"It is the 20th consecutive year in which global surface temperatures were above normal, the WMO said, and the third record-breaking year since 1995. Seven of the hottest years on record have occurred in this decade, the agency said. "WMO Secretary-General G.O.P. Obasi, in a statement released with the report in Geneva, called on national governments to "heed the anomalies" and increase efforts to reduce emissions of heat-trapping gases from factories and automobiles".

Global Environmental Change Report: "The top ten warmest years have all been since 1983, with seven of them since 1990," said David Parker of the Hadley Centre (Bracknell, UK).

The bottom-line; there will continue to be a great deal of controversy surrounding global warming for years to come. The environmental impact of products and systems will increasingly be subjected to increased regulations and driven towards solutions that make both economic and environmental sense.

With this background, I'm sure we'll all look forward to Mr. Calm's presentation.

