

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

521 COLBORNE STREET, LONDON, ONT N6B 2T6

MARCH 1999

**ASHRAE
London Canada**

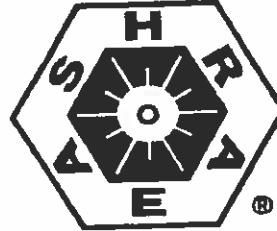
Chapter Program

— 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, March 29, 1999

Tour: Trojan Technologies

Meeting Schedule:

- 5:30 pm** Meet in Trojan Technologies Lobby for Tour (Approx. One Hour)
- 6:30 pm** Leave Trojan for the Highland Club
- 7:00 pm** Dinner at Highland Club
- 8:00 pm** Rob Brunet will present a summary of the technology, its application & comparison to alternative processes



COMMITTEE CHAIRS 1998-1999

Student Affairs - Lindsay Hird
439-3525 Fax: 439-3857

Refrigeration - Andy Ireland
453-3010 Fax: 453-3024

681-1221 TEGA - Paul Roszell 681-9322
680-2389 Fax: 680-2410

Research - Brenda Stonehouse
679-2111 Fax: 661-3801

Historian - Don Johnson
661-3302 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

Topic: UV PHOTOCATALYTIC TECHNOLOGY

Trojan Technologies - 3020 Gore Road, London

Highland Golf & Country Club- 279 Commissioners Road East

Meal Cost - \$ 30.00 Guest

\$ 15.00 Student

BOARD OF GOVERNORS 1998-1999

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March Meeting Topic:

UV PHOTOCATALYTIC TECHNOLOGY

SEAKER: Rob Brunet
Trojan Technologies Worldwide Headquarters
R&D Manufacturing Facilities
3020 Gore Road, London, ON

Trojan Technologies is a Canadian company specializing in the solution of environmental issues through the application of innovative technologies. Trojan's newest product line, AIR2000, uses ultraviolet (UV) photocatalytic technology to destroy organic compounds in air. The process involves passing the volatile organic compounds (VOC's) through a catalyst bed and then irradiating with UV light. This achieves oxidation of the VOC's at ambient temperatures without production of hazardous by-products. The technology is particularly well suited to the destruction of chlorinated hydrocarbons for which the operating cost is considerably less than conventional technologies such as activated carbon absorption.

This technology opens up new opportunities for effectively dealing with exhaust air streams from industrial and certain commercial facilities.

President's Message:

This month's tour of Trojan Technologies offers us in the HVAC field an opportunity to find out more about their exciting new technology in the treatment of VOC's. We've all heard and read about Trojan's accomplishments and I'm certain some have felt pride in having a local London based company compete so successful on a global scale. So here is your opportunity to see and hear first hand their plans for future high-tech products. I'm sure it is something you won't want to miss.

As a reminder, we are in the midst of our Research Promotion campaign headed up by Brenda Stonehouse. By now most of you should have received a letter from Brenda requesting your donation. Please give consideration to investing in ASHRAE research and send your donation along to Brenda.

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Refrigeration News:

Our sister group, ARI has make sweeping changes to their Standards 550 (centrifugal chiller) and 590 (Positive Displacement Chillers). To start with, they have merged them into one standard (ARI550/590-1998). Here is a list of other changes:

Standard evaporator fouling is now 0.001 hr ft2 F/Btu from 0.0025. The condenser-fouling factor remains at 0.0025.

APLV has been replaced with NPLV (Non-standard Part Load Valve). The IPLV remains.

The weighting factors for either NPLV or IPLV have changes to 100% load=1% (17%), 75% load=42% (39%), 50% load=45% (33%), 25% load=12% (11%). The numbers in brackets are the old weightings. As you can see the emphasis is now on part load performance.

The entering condenser water temperature ECWT has changed from 2.5F drop for every 10% unloading to: Constant 65 deg F from) to 50% load, add \$ deg F per 10 % increase in chiller load up to 85 deg F at full load.

These changes are significant and will make comparing a chiller selected in December to one in January a little tricky. It will make chillers with good part load performance look better and the lower condenser water temperature will improve the part load number for any chiller. For those involved in chillers, it is very important that you understand these changes and which edition of ARI data you use.

ENVIRONMENT CANADA

(1) Page 2246, Schedule 4 (subsection 7(1) "Date of Prohibition" HCFC-123 is now identified as separate substance from the total HCFC substance group, noted as item 9. The date of prohibition is stated as January 1, 2030. This reflects the desired changes from the December 27, 1995 ODS regulations where the HCFC-123 was grouped will all HCFC substances with a prohibition date January 1, 2020. In short, the regulations will be changed to allow a service tail from 2020 to 2030 for HCFC-123.

Students:

Those Students having difficulty arranging transportation to ASHRAE London Chapter meetings are encouraged to contact any Board of Governor or Committee Chair member to arrange a ride. We would be more than happy to provide this service for you!

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