

Windsor Ontario Chapter American Society of Heating, Refrigerating and Air Conditioning Engineers Inc.

VOLUME 15

OCTOBER, 1997

NO. 2

1997 - 1998 Executive

President - Greg Dufour Baymay A/C Supply -974-5800

President Elect - Brian Dayus Dayus register & grilles -252-0227

Treasurer - Ken Wilson Kenwil Services -977-7919

Secretary - Ken Thompson Honeywell -250-2000

Board of Govenors

Frank Frabotta - 974-5800 Steve Koutsonicolas - 945-2426 Mark Benedet - 966-2250 James Smith - 948-2600

Committee Chairmen

TEGA - Dan Lariviere -969-9919 Membership - Chris Racicot 251-0200 Research - James Smith -948-2600 Refrigeration - Stewart Lockhart 256-7922 Student Activities - Lorraine Grondin - 250-0227 Program - Brian Dayus -252-0227 Historian - Tom McDonald -966-2617 Reception - Phil Bracewell (519) 649-1700

Newsletter - Mark Benedet -

966-2250

TEGA NIGHT

TUESDAY, OCTOBER 21, 1997

STATIC AIR MIXERS **DESIGN & SELECTION**

at

tbq's OTHER PLACE 3065 Dougall Avenue Windsor, Ontario

Fellowship:

5:30 p.m.

Dinner:

6:30 p.m. (Cash Bar)

Speaker:

7:45 p.m.

(ASHRAE Members \$25. Guests \$30)

Speaker: Bill Myles, P. Eng. - Owner/Application Engineer

Square M Engineering/System Ltd.

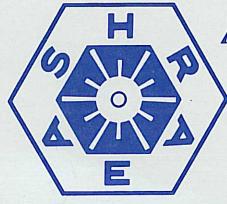
Topic: Proper Selection of Static Air Mixers for Prevention

of Frozen Coils, Reduced Sensor Errors and Improved

Indoor Air Quality

For Dinner Reservations Contact:

Jan at 974-5800



Windsor Ontario Chapter

American Society of Heating, Refrigerating and

Air Conditioning Engineers Inc.

VOLUME 15

JANUARY 1998

NO. 4

TECHNICAL NIGHT

Tuesday, January 13, 1998

HUMIDIFICATION SEMINAR

at

TBQ's Other Place 3067 Dougall Avenue Windsor, Ontario

Fellowship:

5:30 p.m.

Dinner:

6:15 p.m. (Cash Bar)

Speaker:

7:45 p.m.

Discussion Period

8:15 p.m.

(ASHRAE Members \$25. Guests \$30)

Speaker:

Mr. Kendall Brant - Dri-Steem Humidifier Company

Topic:

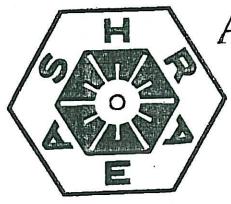
I. Principles of Humidification

II. Humidification and Indoor Quality

III. Methods of Humidification

IV. Equipment Selection Considerations

For Dinner Reservations Contact: Jan at 974-5800 by Monday, January 12, 1998



Windsor Ontario Chapter American Society of Heating, Refrigerating and Air Conditioning Engineers Inc.

VOLUME 15

FEBRUARY 1998

NO.4

RESEARCH PROMOTION NIGHT

Tuesday, February 17, 1998

DESIGNING FOR THERMAL COMFORT THE SCIENTIFIC PRINCIPLES BEHIND THE FACTORS USED IN UNDERSTANDING THE HUMAN BODY AS A THERMAL SYSTEM



Beach Grove Golf & Country Club 14134 Riverside Drive St. Clair Beach, Ontario

Fellowship:

5:30 p.m.

Dinner:

6:30 p.m. (Cash Bar)

Speaker:

7:45 p.m.

Discussion Period

8:15 p.m.

ASHRAE Members \$25, Guests \$25, Students \$20)

Ashrae Members and guests are urged to make an effort to attend this this meeting to hear our keynote speaker.

Speaker:

Distinguished Lecturer - Dr. Byron W. Jones

Mechanical Engineering Department

Kansas State University, Manhattan, KS

Topic:

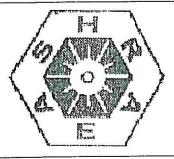
A better understanding how the human body functions as a

thermal system, how it interacts with its thermal

surroundings, and how these factors are related to thermal

protection and comfort.

For Dinner Reservations Contact: Jan at 974-5800 by Friday, February 13, 1998



ASHRAE IN WINDSOR

Windsor Ontario Chapter American Society of Heating, Refrigeration and Air Conditioning Engineers

Designing for Thermal Comfort

The Human body can be analyzed in much the same way as any other thermal system. Such an analysis can be used to quantitatively describe the thermal interaction between the body and the surrounding environment. This capability can in turn be used to examine the impact of various environmental factors such as air temperature, humidity, thermal radiation, and air motion, on the human body. It also allows a quantitative assessment of the critically important roles of activity and clothing. This background provides a scientific basis for designing buildings and HVAC systems from the perspective of the human occupant. It is particularly useful for addressing nonconventional approaches to providing thermal comfort and for dealing with unique situations. Understanding these principles is an important factor in providing a quality thermal comfort environment.

Tuesday, February 17th, 1998. Location to be announced

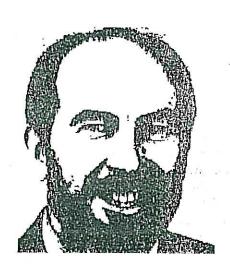
Fellowship5:30 Dinner 6:30 Speaker 7:45

ASHRAE members and guests invited.



Dr. Jones currently serves as head of the Mechanical Engineering Department at Kansas State University. He served as Director of the KSU Institute for Environmental Research prior to his current position. Before joining the KSU faculty 18 years ago, he was senior systems Scientist at the Montana Energy and MHD Research and Development Institute. Dr. Jones received his degree in mechanical engineering from Oklahoma State University. His areas of expertise include heat and mass transfer. human thermal systems simulation, and thermal measurements and instrumentation. Dr. Jones is an active researcher, and, in addition to traditional HVAC research, he has conducted a number of studies aimed at better understanding how the human body functions as a thermal system, how it interacts with its thermal surroundings, and how these factors are related to thermal protection and comfort. He has directed or participated in eleven ASHRAE sponsored projects.

For reservations contact Jan @ 974-5800, for further information, contact Brian Dayus @ 252-0227



DR. BYRON W. JONES Mechanical Engineering Department Kansas State University Manhattan, KS

Dr. Jones currently serves as Head of the Mechanical Engineering Department at Kansas State University. He served as Director of the KSU Institute for Environmental Research prior to his current position. Before joining the KSU faculty 18 years ago, he was a Senior Systems Scientist at the Montana Energy and MHD Research and Development Institute. Dr. Jones received his B.S. degree in mechanical engineering from KSU and both his M.S. and Ph.D. degrees from Oklahoma State University. His areas of expertise include heat and mass transfer, human thermal systems simulation, and thermal measurements and instrumentation. Dr. Jones is an active researcher and, in addition to traditional HVAC research, he has conducted a number of studies aimed at better understanding how the human body functions as a thermal system, how it Interacts with its thermal surroundings, and how these factors are related to thermal protection and comfort. He has directed or participated in eleven ASHRAE sponsored research projects.

LECTURE TOPICS:

Thermal Engineering and the Human Body: The human body, when viewed from an engineer's perspective, is a marvelous thermal system. It is both resilient and adaptable, maintaining closely regulated temperature control for critical biological functions at the same time it functions in widely varied environments and at widely varied heat output rates. Although often overshadowed by the biochemical and mechanical functions of the body, the thermal functions of the body are equally critical to human survival and performance, and equally fascinating. Many features used today by engineers designing thermal systems have always been a part of the human thermal system. These features include liquid coolants, counter flow heat regeneration, evaporative cooling, movable insulation, and selective load shedding in response to excessive demands. This view of the human is essential to understanding thermal protection and human performance in extreme hot and cold environments and understanding thermal comfort in less extreme conditions. It provides particularly useful insight for people who design buildings and HVAC systems and who wish to have those designs provide high quality thermal environments. This presentation is made from the point-of-view of an engineer but is not highly technical and is suitable for both technical and nontechnical audiences.

Designing for Thermal Comfort: The human body can be analyzed in much the same way as any other thermal system. Such an analysis can be used to quantitatively describe the thermal interaction between the body and the surrounding environment. This capability can in turn be used to examine the impact of various environmental factors such as air temperature, humidity, thermal radiation, and air motion, on the human body. It also allows a quantitative assessment of the critically important roles of activity and clothing. This background provides a scientific basis for designing buildings and HVAC systems from the perspective of the human occupant. It is particularly useful for addressing nonconventional approaches to providing thermal comfort and for dealing with unique situations. Understanding these principles is an important factor in providing a quality thermal comfort environment. This presentation is not highly technical; it is, however, directed primarily at practicing engineers.

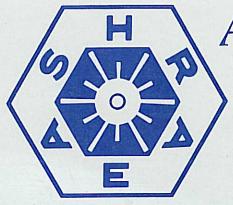


1SHRAE

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

WINDSOR CHAPTER, ASHRAE - MEETING SUMMARY

LOCATION: GUEST SPEAKER: TOPIC: CHAIRMAN: CHAIRMAN:	Bypod Leg Duf	HETH LJONES OPE (program chairman)	DATE:	FEB17 98.
REVENUES				
Table Top Displays				
1 2		, 		
<u>Meals</u>		*		
(Non Paying) Students Selve Total Meals Meeting Only Total Attendance EXPENDITURES	1 x 45 — 45	\$	= \$ - = \$ -	
Restaurant Charge: 45 /isual Aid Rentals (Receipt Require Gift for Speaker (Receipt Require Other Expenses (Specify Below)	d) -		= \$ = \$ = \$ = \$	900.00
•		Total Expenditures Net Revenue	= \$ = \$	



Windsor Ontario Chapter American Society of Heating, Refrigerating and Air Conditioning Engineers Inc.

VOLUME 15

MARCH 1998

NO. 5>6

RESEARCH PROMOTION NIGHT

Tuesday, March 24, 1998

COMBO SYSTEM SIZING **GUIDELINES AND SIZING TECHNIQUES**

AND

ASHRAE STUDENT AWARD PRESENTATION

at

Smitty's Restaurant 307 Grand Avenue West Chatham, Ontario

Fellowship:

5:30 p.m.

Dinner:

6:30 p.m. (Cash Bar)

Speaker:

7:45 p.m.

Discussion Period

8:15 p.m.

(ASHRAE Members \$25, Guests \$25, Students \$20)

Speaker:

Mr. Steve Davies, P. Eng.

Union Gas Limited/Centra Gas (Ontario) Inc.

Topic:

A look into the new "Unified Canadian Guide for

Integrated (Combo) Heating Systems"

A Guideline to provide standardized sizing and

design of Combo Systems

Discussions on the latest findings in Combo

performances and sizing techniques

For Dinner Reservations Contact: Jan at 974-5800 by Monday, March 23, 1998



Windsor Ontario Chapter

American Society of Heating, Refrigerating and

Air Conditioning Engineers Inc.

VOLUME 15

Siz FA+ ON FINE

MARCH 1998

NO. 5

RESEARCH PROMOTION NIGHT

Tuesday, March 24, 1998

COMBO SYSTEM SIZING GUIDELINES AND SIZING TECHNIQUES

AND

ASHRAE STUDENT AWARD PRESENTATION

at

BAYMAR SUPPLY LTD.

3200 Jefferson Bivd., Windsor, ON N8T 2W8

Smitty's Restaurant 307 Grand Avenue West Chatham, Ontario

Fellowship:

5:30 p.m.

Dinner:

6:30 p.m. (Cash Bar)

Speaker:

7:45 p.m. ~

Discussion Period

8:15 p.m.

(ASHRAE Members \$25, Guests \$25, Students \$20)

Speaker:

Mr. Steve Davies, P. Eng.

Union Gas Limited/Centra Gas (Ontario) Inc.

Topic:

A look into the new "Unified Canadian Guide for

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A Guideline to provide standardized sizing and

design of Combo Systems

Discussions on the latest findings in Combo

performances and sizing techniques

For Dinner Reservations Contact: Jan at 974-5800 by Monday, March 23, 1998



FAX COVER SHEET

No. of Pages

From:

Company:

Lorraine Grondin

Union Gas

Union

Fax #:

250-2224

Phone #:

250-2355

SUBJECT: Meeting March 24, 1998

To: (

: Greg Dufour

Company:

Baymar

Fax #:

(519) 974-5803

Hi Greg

SPLAKEN.

BAYMAR SUPPLY LTD.

200 Jefferson Blvd., Windsor, ON N8T 2V (519) 974-5800 • Fax 974-5803

Steve Davies will be talking about "Combo System Sizing"

Steve will cover two topics in his presentation. Steve will discuss the new "Unified Canadian Guide for Integrated (Combo) Heating Systems", a guideline developed by HRAI in conjunction will several different associatio along with Union and Consumer Gas to provide a more standardized approach to sizing and designing combo systems. He will also discuss the latest findings in combo performance and sizing techniques.

I will let you know about a student speaker as well:

Thanks!

Lorraine

ALSO - STUDENT AWARDS.

ST. CLAIR COLLEGE CHATHAM.

SMITTI'S PANCAKU HOUSE. 307 GRAND AUE W.

332-6266

BAYMAR

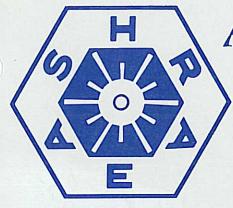
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American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

WINDSOR CHAPTER, ASHRAE - MEETING SUMMARY

TOPIC	MEETING (SUITIVIS). SUIES SUSTEMS DUFOUE (program chairman)	DATE: MARCH 24 98
REVENUES		
Table Top Displays		
1. BAYMAR 2.	\$	755
Meals	\$. *	
Members Non Members Guests — (Non Paying) Students Total Meals Meeting Only Total Attendance EXPENDITURES Meals Restaurant Charge: ** meals	x \$	= \$
Visual Aid Rentals (Receipt Required) Gift for Speaker (Receipt Required) Other Expenses (Specify Below)		= \$ = \$ = \$
	Total Expenditures Net Revenue	= \$ = \$



Windsor Ontario Chapter
American Society of Heating, Refrigerating and
Air Conditioning Engineers Inc.

VOLUME 15

APRIL 1998

NO. 6> 7

TOUR AND TECHNICAL NIGHT

Tuesday, April 21, 1998

TOUR AND TECHNICAL TALK OF TRANS ALTA ENERGY CORPORATION WINDSOR-ESSEX COGENERATION PLANT 2600 TEMPLE DRIVE WINDSOR, ONTARIO

This will be a joint meeting with 'HRAI', Heating Refrigeration and Air Conditioning Institute

Tour Starts at 5:00 p.m. (Protective glasses, hard hat and safety shoes are required)

Meet at Main Office West Off of Central Avenue - North of Windsor Star's New Plant on E.C. Rowe

Tour Guide - Don Bauder, Assistant Plant Manager

After Tour adjourn to 'RIB NIGHT' at

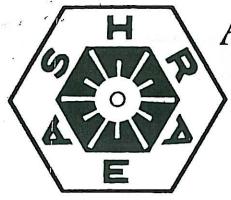
TBQ's Other Place 3067 Dougall Avenue Windsor, Ontario

Dinner:

6:45 p.m. (Cash Bar)

(ASHRAE Members \$25, Guests \$25, Students \$20)

For Dinner Reservations Contact: Jan at 974-5800 by Monday, April 20, 1998



Windsor Ontario Chapter
American Society of Heating, Refrigerating and
Air Conditioning Engineers Inc.

VOLUME 15

APRIL 1998

NO. 6

TOUR AND TECHNICAL NIGHT

Tuesday, April 21, 1998

TOUR AND TECHNICAL TALK OF TRANS ALTA ENERGY CORPORATION WINDSOR-ESSEX COGENERATION PLANT 2600 TEMPLE DRIVE WINDSOR, ONTARIO

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Meet at Main Office West Off of Central Avenue - North of Windsor Star's New Plant on E.C. Rowe

Tour Guide - Don Bauder, Assistant Plant Manager

After Tour adjourn to 'RIB NIGHT' at

TBQ's Other Place 3067 Dougall Avenue Windsor, Ontario

Dinner:

6:45 p.m. (Cash Bar)

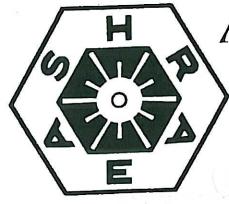
(ASHRAE Members \$25, Guests \$25, Students \$20)

For Dinner Reservations Contact: Jan at 974-5800 by Monday, April 20, 1998 THANKS - TOUR OF TRANSACTA CO GLUCIATION
PORT.

SOUTHES

JOHN SOUTES

- ALENA MATOS.



Windsor Ontario Chapter American Society of Heating, Refrigerating and Air Conditioning Engineers Inc.

VOLUME 15

MAY 1998

NO. 7

PAST PRESIDENTS NIGHT

AND

INTRODUCTION OF 1998-99 EXECUTIVE

Thursday, May 21, 1998

at

Beach Grove Golf & Country Club 14134 Riverside Drive St. Clair Beach, Ontario

Fellowship:

5:30 p.m.

Dinner:

6:30 p.m. (Cash Bar) 7:45 p.m.

Speaker:

Discussion Period: 8:15 p.m. (ASHRAE Members \$25, Guests \$25, Students \$20)

There will be no speaker as this is a social night. Ashrae members are urged to make an effort to attend, bring a guest and enjoy our "STEAK BARBEQUE along with the company of fellow Ashrae members.

Come and welcome in our new executive for next year:

President

- Brian Dayus

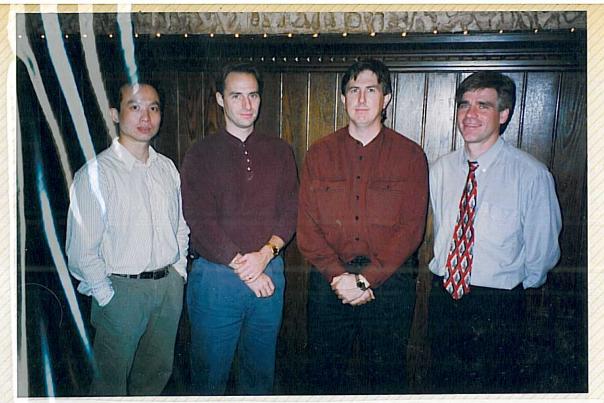
President-Elect

- Ken Wilson - Ken Thompson

Treasurer Secretary

- Phil Bracewell

For Dinner Reservations Contact: Jan at 974-5800 by Tuesday, May 19, 1998



1998 New Members David Ting, Mike Welsh, John Regier, Mason Hoppe







