



ASHRAE London Chapter Board of Governor's Meeting

Meeting Minutes

July 27, 2004

Opening:

The Chapter Planning Meeting for 2004-2005 began at 4:30 PM on July 27, 2004 in the Chorley & Bisset boardroom and was chaired by Mr. Derek Vakaras.

Present:

Derek Vakaras, Tom Pollard, Eric Shaw, John Kelly, Scott Edmunds, Joe Claessens & Jamie Whitty

Article I. Open Issues

- 1) London Chapter Board of Governors for 2004/05
 - President – Derek Vakaras
 - Vice President – Joe Claessens
 - Treasurer – Scott Turner
 - Secretary – Scott Edmunds
 - Membership – John Kelly
 - Student Activities – Jamie Whitty
 - Historian – Eric Shaw
 - Resource Promotion – Tom Pollard
 - Technology Transfer – Joe Claessens

- 2) Discussed registration & attendance for Region II CRC in August 2004
 - a) Confirmed registration for CRC events & functions
 - D. Vakaras and J. Claessens registered for all events & functions
 - S. Edmunds registered for Technical Tour on Friday, August 20 and Awards Luncheon & President's Speech on Saturday, August 21
 - T. Pollard, J. Kelly, E. Shaw & J. Whitty registered for Awards Luncheon & President's Speech on Saturday, August 21
 - b) Confirmed attendance for CRC Workshops on Saturday, August 21
 - Research - T. Pollard
 - Student Activities - J. Whitty
 - Technology Transfer - J. Claessens
 - Membership - S. Edmunds
 - Historian - E. Shaw

- 3) Discussed London Chapter 2003/04 Summary Report
 - a) Summary report is being completed by D. Vakaras. The following outstanding information must be supplied as listed and forwarded to D. Vakaras by email ASAP:
 - Number of Chapter Members – J. Claessens & J. Vandenberghe
 - Number of New Student Members – S. Edmunds
 - Research Promotion Report – D. Somers
 - Chapter History Report – J. Kelly

- Chapter Program – D. Vakaras
 - Financial Report – J. Claessens
 - President's Report – T. Pollard
- 4) Discussed motions to put forward at the Region II CRC
- List of Potential Speakers for Region II Chapter meetings
 - Region II Website
 - Bring forward Daryl Somers as a candidate for the Regional Nomination Committee
- 5) Discussed approval of 2004/05 Budget
- a) D. Vakaras completed the 2004/05 budget in S. Turner's absence and J. Claessens checked the budget. D. Vakaras reviewed the budget with the committee. Two motions were passed.
 - i) Motion to keep meal plan at 2003/04 rates was passed (Best Western has increased meal charge by 1\$ per plate for 2003/04)
 - ii) Motion to accept budget as reviewed with committee passed (Surplus of \$600 anticipated) – see attached budget below
 - b) S. Edmunds agreed to audit 2003/04 financial records with assistance from J. Kelly. J. Claessens mentioned that there were still some outstanding debits that should be cleared up before the audit, i.e. i) unpaid golf registration fees, ii) unpaid meals and iii) unpaid tabletop fees
- 6) Discussed approval of 2004/05 MBO's
- a) T. Pollard gave examples of his own MBO's in 2003/04. It was agreed that past Chairs will forward their 2003/04 MBO's onto new Chairs

Article II. B. New Business

- 1) Discussed need to update calling list used to verify attendance prior to monthly Chapter meeting. J. Claessens will provide last year's meeting attendance list to J. Kelly, who will create an updated calling list for future attendance checks.
- 2) The Best Western Hotel has been booked by J. Claessens for Chapter meetings on the following date; September 27th, October 25th, November 29th, January 31st, February 28th, March 21st & April 25th. The annual Chapter golf tournament has been scheduled for June 6th, 2005.

Adjournment:

Meeting was adjourned at 5:45 PM. The next general meeting will be at 4:30 PM on Tuesday, September 14th, 2004 in the Chorley & Bisset boardroom.

Minutes submitted by: Scott Edmunds

Approved by: Derek Vakaras

BUDGET 2004 - 2005 LONDON ASHRAE CHAPTER

Monthly Meeting

	Meals	Number		
Expense	\$20.95	274	\$5,740.30	
Gratuity for Food	15%		<u>\$861.05</u>	
			\$6,601.35	
GST & PST			<u>\$990.20</u>	
			\$7,591.55	26.38 /meal
Guests Gifts	\$20	7	<u>\$140.00</u>	
			\$7,731.55	<u>(\$7,731.55)</u>

Revenue

Meal Plans	\$160.00	22	\$3,520.00	(93 meals to meal plan 83%)
Meals 274-118=156-7(spreakers)=149	\$35.00	149	\$5,215.00	
			\$8,735.00	\$8,735.00
Table Tops (\$100-35 Meal=65)	\$65	4	\$260.00	<u>\$260.00</u>
				\$1,263.45
Newsletter Aids - Max 14 use 12	\$100	12	\$1,200.00	<u>\$1,200.00</u>
				\$2,463.45
Membership	\$40.00	60	\$2,400.00	<u>\$2,400.00</u>
				\$4,863.45

CRC - General Expense

-\$4,500.00
-\$4,500.00
\$363.45

Operations

Roster Printing	\$120.00	1	\$120.00	
Past President Pin	\$180.00	1	\$180.00	
ASHRAE Research	\$750.00	1	\$750.00	
Student Awards	\$316.00	2	\$632.00	
Service Charges	\$5.00	12	\$60.00	
			\$1,742.00	<u>(\$1,742.00)</u>
				<u>(\$1,378.55)</u>

Golf Tournament

124 golfers	\$135.00	124	\$16,740.00	<u>\$16,740.00</u>
				\$15,361.45
Deposit	\$1,400.00	1	\$1,400.00	
Final Payment (plus 10%)	\$11,540.00	1	\$11,540.00	
Prizes	\$1,750.00	1	\$1,750.00	
			\$14,690.00	<u>(\$14,690.00)</u>
				\$671.45



ASHRAE LONDON CHAPTER BOARD OF GOVERNORS MEETING

Attended By Joe Claessens
Dennis Dawe
John Kelly
Tom Pollard
Eric Shaw
Scott Turner
Derek Vakaras
Jamie Whitty

Copies To Distribution
Date October 12, 2004

1. Reviewed and approved minutes of September 14, 2004 meeting.
2. 2003 – 2004 financial records are complete and ready to be audited. J. Claessens to forward records to S. Edmunds for auditing, with assistance from J. Kelly. Records handed to J. Kelly at Oct. 12 meeting.
3. Discussed need for each Committee Chair to forward MBOs to RVCs prior to October 1st deadline. MBO highlights were discussed. All groups had goal setting/planning session with RVC, except for Student Activities, where Chair was unable to get in touch with RVC. Chair to forward correspondence to D. Vakaras, who will forward it to DRC.
4. Update of calling list discussed again. J. Kelly has list and is to review. D. Vakaras has started to compile list which should be complete shortly.
5. Program is complete. J. Claessens to review options for attending a Knight's game. Tour was discussed. Alternate tour locations are still being reviewed. Group decided to attend Knight's game on March 3, 2005. J. Claessens will book 54 seat box for the game. T. Pollard to update program on website.
6. Discussed Committee Chairs projected PAOE points for the year (below). We are hoping to match last year's performance. Discrepancy in point totals between this year's program, and last year's program and TEGA points to be reviewed.

Student Activities	- 715 points vs 585 last year
Program	- 1130 vs 1405 last year (to be reviewed)
History	- 300 vs 300 last year
Operations	- 850 vs 830 last year
Membership Promotion	- 770 vs 525 last year
Resource Promotion	- 920 vs 920 last year
Total	- 4685 vs 4565 last year
7. T. Pollard agreed to put together the Newsletter again this year. Friday, October 15th is deadline for items to Tom.
8. J. Whitty is organizing sponsorships for students that attended the September meeting.
9. ASHRAE Research donation required from S. Turner, S. Edmunds, J. Claessens, T. Pollard and D. Vakaras at October Board of Governors Meeting, in order to achieve 'Full Circle'. T. Pollard suggested donations be made online by Friday October 15.
10. Library materials to be brought to November Board of Governors Meeting. D. Vakaras will maintain library at C & B office.
11. J. Claessens to provide Chapter Meeting summaries for some of our meetings to Insights this year.
12. J. Whitty is compiling student membership applications. He will forward to Society, along with a cheque prepared by

13. J. Whitty suggested the chapter earn PAOE points by having members present HVAC lectures at UWO early next year. He plans to obtain a curriculum for review. D. Dawe suggested Brenda Stonehouse be contacted as her activities may also qualify for PAOE points. Subsequent to the meeting, it was also suggested that Eric Shaw and Dave Brown, who occasionally teach at Fanshawe College, may also be able to earn the chapter PAOE points.
14. Next meeting: Tuesday, November 16, C & B Board Room, 4:30 p.m.

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ASHRAE LONDON CHAPTER BOARD OF GOVERNORS MEETING

Attended By	John Kelly Tom Pollard Eric Shaw Scott Turner Derek Vakaras Scott Edmunds Jamie Whitty	Copies To	Distribution
		Date	November 16, 2004

1. Reviewed and approved minutes of October 12, 2004 meeting.
2. Current 2004 – 2005 bank balance for London Chapter is \$16, 530.89. 2003 – 2004 financial records are complete and ready to be audited. Records handed to J. Kelly at Oct. 12 meeting. S. Edmunds to audit, with assistance from J. Kelly, before year end.
3. Thirty-seven members, including two students, attended the October 25th Chapter meeting.
4. Updated member calling list distributed by D. Vakaras to Committee members. Smylie & Crow, Chorley & Bisset, Somers Environmental, TRANE, Raytec and Drennan Refrigeration assigned specific members to call each month to confirm attendance at chapter meetings.
5. Membership Promotion Night was discussed and scheduled for the November chapter meeting. J. Kelly to speak at meeting on the benefits of ASHRAE membership and will write article for this month's newsletter.
6. A second Student Activities Night was discussed and scheduled for the January chapter meeting. The main topic at the meeting, Green Buildings and the LEED rating system, should interest a few more students to attend the meeting.
7. J. Claessens has booked the box for the London Knight's game on March 3, 2005. The Committee discussed the cost of the event and decided to set the ticket price at \$25 per person.
8. Discussed Committee Chairs projected PAOE points for the year. The password for web access to update PAOE points is "London wdv116".

Student Activities	-	715 points vs 585 last year
Program	-	1130 vs 1405 last year (to be reviewed)
History	-	300 vs 300 last year
Operations	-	850 vs 830 last year
Membership Promotion	-	770 vs 525 last year
Resource Promotion	-	920 vs 920 last year
Total	-	4685 vs 4565 last year
9. Friday, November 19th is deadline for newsletter items to T. Pollard. Research donation contributors will be highlighted in this month's newsletter.
10. J. Whitty has compiling all student membership applications. Six students from UWO and six students from Fanshawe completed membership applications & attended one chapter meeting. An additional five students from UWO completed membership application but have not attended a chapter meeting yet. The Committee agreed to pay the student membership fees for all students who have completed an application. J. Whitty will forward to Society, along with a cheque prepared by J. Claessens.

11. Corporate sponsors for students attending a chapter meeting are still to be invoiced. J. Whitty expects this to be done before the end of the year.
12. Committee members have to the end of the year to contribute to ASHRAE Research in order to achieve 'Full Circle'. Most committee members have donated already.
13. Discussed the creation on a chapter library. Library materials can be brought to the next Board of Governors Meeting by committee members. P. Golem has historical material to donate to new library. D. Vakaras will maintain library at C & B office on a temporary basis. The Committee discussed adding current ASHRAE Standards to the library as resource material for all members. D. Vakaras expressed concerned with allowing students access to the library for administrative reasons, i.e. security, photocopying etc..
14. J. Whitty suggested the chapter earn PAOE points by having members present HVAC lectures to fourth-year UWO engineering students. He presented the course curriculum for committee review. Committee members agreed to send J. Whitty a list of names of potential lecturers for the course. J. Whitty will meet with the course professor to discuss our potential offering once a list of recommended lecturers is compiled.
15. Next meeting: Wednesday, December 15, The Wortley Roadhouse (190 Wortley Rd.) @ 5:00 p.m.

Prepared by S. Edmunds
Reviewed by D. Vakaras

ASHRAE LONDON CHAPTER BOARD OF GOVERNORS MEETING

Attended By Tom Pollard
Scott Turner
Derek Vakaras
Scott Edmunds
Jamie Whitty

Copies To Distribution
Date January 26, 2005

BUSINESS IN PROGRESS

1. Reviewed and approved minutes of November 16, 2004 meeting.
2. Bank balance as of December 21st, 2004 was \$17,478.17.
3. No. of attendees at the November 29, 2004 Chapter was 37.
4. 2003 – 2004 financial records are complete and ready to be audited. S. Edmunds to audit, with assistance from J. Kelly, in February.
5. A second Student Activities Night has been scheduled for the January chapter meeting - the main topic at the meeting, Green Buildings and the LEED rating system. J. Whitty has contacted all student members via email but only two students have confirmed attendance. J. Whitty will contact Mr. Walid Altahan, the instructor of the UWO Engineering HVAC course, to remind the students about attending the January chapter meeting.
6. J. Claessens has booked the box for the London Knight's game on March 3, 2005. Tickets will be available at the January chapter meeting.
7. Discussed Committee Chairs projected PAOE points for the year.

Student Activities	-	320 points YTD	(715 points target)
Program	-	385 points YTD	(1,130 points target)
History	-	125 points YTD	(300 points target)
Operations	-	600 points YTD	(850 points target)
Membership Promotion	-	0 points YTD	(770 points target)
Resource Promotion	-	87 points YTD	(920 points target)
Total	-	1,517 points YTD	(4,685 points target)

Reminder: The password for web access to update PAOE points is "London wdv116".

8. J. Whitty has compiling all student membership applications. The Committee agreed to pay the student membership fees for all students who have completed an application at the November BOG meeting. Thirteen completed applications were sent by J. Whitty into Society last month. The Committee requested a list of student members. J. Whitty will forward copy of all student memberships to J. Kelly, who will be asked to ensure that all student members are properly assigned to London Chapter.
9. S. Turner confirmed that all invoices have been sent and paid by corporate sponsors for students attending the October chapter meeting.
10. T. Pollard confirmed that all Committee members have contributed to ASHRAE Research and 'Full Circle' has been achieved.

11. Discussed the creation on a chapter library. D. Vakaras again expressed concerned with allowing students access to the library for administrative reasons, i.e. security, photocopying etc..
12. J. Whitty suggested the chapter earn PAOE points by having members present HVAC lectures to fourth-year UWO engineering students. J. Whitty met with the course instructor of the UWO Engineering HVAC course, Mr. Walid Altahan, in December to discuss offering a list of recommended lecturers for the course. Mr. Altahan happily accepted our offer and three ASHRAE members (D. Brown, S. Edmunds & P. Golem) will lecture on HVAC design & energy calculations in January and February 2005.

NEW BUSINESS

13. A question was raised about the requirement of the London Chapter to pay \$6 per member into the ASHRAE regional fund since the chapter is hosting the next CRC. T. Pollard indicated that this was Society protocol.
14. During the business session at the January chapter meeting, J. Claessens or D. Vakaras will discuss the distinguishing lecturer, who will present at the February chapter meeting. Additionally, J. Whitty will welcome students in attendance and T. Pollard will speak about research promotion & attaining "Full Circle" status.
15. D. Vakaras will contact J. Kelly to find out when the chapter member's roster will be published. This has typically been done in January.
16. Somers Environmental, Carrier, Palser Enterprises, Siemens Building Technologies, Baymar, HTS Engineering, Eire Sheet Metal, Aquatech, Trane, have paid for their newsletter advertisements. Payment from EFI Ironross, Durell Controls and Northern Industries is still outstanding.
17. The Committee discussed the need to set up a Nominating Committee for the next Board of Governors. The Committee agreed to ask Mr. Dennis Dawe to chair the Nominating Committee. The following names were put forward as possible candidates for next year's Board or ;
 - President - J. Claessens
 - Vice-President – S. Turner
 - Treasurer – S. Edmunds
 - Student Activities – J. Whitty
 - Other Candidates for Chair Positions – T. Pollard, E. Shaw, J. Kelly, D. Brown, J. Vandenberghe
18. Next meeting: **Wednesday, February 16th**, Chorley & Bisset Boardroom (369 York Street, Suite 2B) @ 4:30 p.m.

Prepared by S. Edmunds
Reviewed by D. Vakaras

ASHRAE LONDON CHAPTER BOARD OF GOVERNORS MEETING

Attended By Joe Claessens
Eric Shaw
Derek Vakaras
Scott Edmunds
Jamie Whitty
John Kelly

Copies To Distribution
Date February 16, 2005

BUSINESS IN PROGRESS

1. Reviewed and approved minutes of January 26th, 2004 meeting.
2. Bank balance as of January 31st, 2004 was \$18,422.12.
3. 2003 – 2004 financial records are ready to be audited. S. Edmunds to audit, with assistance from J. Kelly, in early March.
4. No. of attendees at the January 31st, 2004 chapter meeting was 52.
5. A second Student Activities Night was held during the January chapter meeting. Five engineering students from the University of Western Ontario (UWO) attended the meeting.
6. Joe has confirmed travel & hotel arrangements for the Distinguished Lecturer, Mr. Christopher McDonald of Shook, Hardy and Bacon, L.L.P (Kansas City, Missouri), who will speak during the February chapter meeting.
7. Resource Promotion Night has been scheduled for the February chapter meeting. T. Pollard will speak on ASHRAE Research & membership donations during the business session. J. Claessens will also speak during the business session about upcoming chapter events, i) the London Knights hockey game on March 3rd, and ii) the proposed plant tour of Strathroy Food & its refrigeration system. J. Claessens indicated that after the plant tour, dinner reservations have been made at the Bear Creek Golf Club, Strathroy. The Committee recommended that the plant tour be scheduled for March 21st.
8. J. Claessens indicated that all tickets have been sold to the London Knight's game on March 3rd, 2005 and he will be completing the food order by Feb 17th, 2004.
9. All items for the February newsletter are due by Sat Feb 19th.
10. Discussed Committee Chairs current & projected PAOE points for the year.

Student Activities	-	320 points YTD	(715 points target)
Program	-	385 points YTD	(1,130 points target)
History	-	125 points YTD	(300 points target)
Operations	-	600 points YTD	(850 points target)
Membership Promotion	-	50 points YTD	(770 points target)
Resource Promotion	-	53 points YTD	(920 points target)
Total	-	1,533 points YTD	(4,685 points target)

Reminder: The password for web access to update PAOE points is "London wdv116".

11. J. Whitty has compiled all student membership applications and has forward a copy of the memberships to J. Kelly, who will ensure that all student members are properly assigned to London Chapter.
12. S. Turner confirmed that all invoices have been sent and paid by corporate sponsors for students attending the October chapter meeting. J. Whitty has compiled a list of corporate sponsors and will forward to S. Turner for future invoicing including the sponsorship of students who attended the January chapter meeting.
13. The chapter has began earning Student Activity PAOE points through local members presenting HVAC lectures to fourth-year UWO engineering students. Mr. Walid Altahan, the course instructor of the UWO Engineering HVAC course, has had three ASHRAE chapter members (D. Brown, S. Edmunds & P. Golem) present several lectures on HVAC design & energy calculations during January & February 2005. One additional member (E. Shaw) will conclude the lecture program beginning next week.
14. J. Kelly was asked by the Committee to have the chapter member's roster published prior to the February chapter meeting for distribution at the meeting. J. Claessens will forward the roster to J. Kelly by tomorrow, who will contact the past publisher, TM Publishing, for immediate printing.
15. Payments from EFI Ironross, Durell Controls and Northern Industries are still outstanding for their newsletter advertisements.
16. The Committee discussed the need to set up a Nominating Committee for the next Board of Governors. Mr. Dennis Dawe has agreed to chair the Nominating Committee. The following names were put forward as possible candidates for next year's Board of Governors & Chapter Chairs;
 - President - J. Claessens
 - Vice-President – S. Turner
 - Treasurer – S. Edmunds
 - Student Activities – J. Whitty
 - Other Candidates for Chair Positions – T. Pollard, E. Shaw, J. Kelly, D. Brown, J. Vandenberghe

NEW BUSINESS

17. A Satellite broadcast & Webcast on chillers & cooling tower design was held at the TRANE office in London last October and was attended by a few chapter members. 100 PAOE points will be recorded for membership attendance at this event. A future ASHRAE Webcast on mould mitigation will be held at the office of Chorley & Bisset Ltd. in mid-April 2005.
18. D. Vakaras asked Committee members for their input on an appropriate gift for February's Distinguished Lecturer.
19. S. Turner mentioned that he will be setting up a bank account shortly with P Golem for managing this year's CRC Conference expenses & revenues.
20. Next meeting: **Wednesday, March 9th**, Chorley & Bisset Boardroom (369 York Street, Suite 2B) @ 4:30 p.m.

Prepared by S. Edmunds
Reviewed by D. Vakaras

ASHRAE LONDON CHAPTER BOARD OF GOVERNORS MEETING

Attended By	Tom Pollard Eric Shaw Derek Vakaras Dennis Dawe	Copies To	Distribution
		Date	March 8, 2005

BUSINESS IN PROGRESS

1. Reviewed and approved minutes of February 16th, 2005 meeting.
2. Bank balance as of February 25, 2005 was \$15,478.86.
3. 2003 – 2004 financial records are ready to be audited. S. Edmunds to audit, with assistance from J. Kelly, in early March.
4. No. of attendees at the February 28, 2005 chapter meeting was 23.
5. The March meeting will be a plant tour of Strathroy Foods & its refrigeration system. After the plant tour, dinner reservations have been made at the Bear Creek Golf Club, Strathroy. Key business items will be a nominating committee update and a history update.
6. All items for the March newsletter are due by Saturday March 12.
7. Committee Chairs current & projected PAOE points for the year:

Student Activities	-	320 points YTD	(715 points target)
Program	-	515 points YTD	(1,130 points target)
History	-	125 points YTD	(300 points target)
Operations	-	600 points YTD	(850 points target)
Membership Promotion	-	50 points YTD	(770 points target)
Resource Promotion	-	87 points YTD	(920 points target)
Total	-	1,697 points YTD	(4,685 points target)

Reminder: The password for web access to update PAOE points is "London wdv116".

8. J. Whitty has compiled all student membership applications and has forward a copy of the memberships to J. Kelly, who will ensure that all student members are properly assigned to London Chapter.
9. S. Turner confirmed that all invoices have been sent and paid by corporate sponsors for students attending the October chapter meeting. J. Whitty has compiled a list of corporate sponsors and will forward to S. Turner for future invoicing including the sponsorship of students who attended the January chapter meeting.
10. The chapter has began earning Student Activity PAOE points through local members presenting HVAC lectures to fourth-year UWO engineering students. Mr. Walid Altahan, the course instructor of the UWO Engineering HVAC course, has had three ASHRAE chapter members (D. Brown, S. Edmunds & P. Golem) present several lectures on HVAC design & energy calculations during January & February 2005. One additional member (E. Shaw) will conclude the lecture program beginning next week.

11. J. Kelly was asked by the Committee to have the chapter member's roster published prior to the February chapter meeting for distribution at the meeting. J. Claessens will forward the roster to J. Kelly by tomorrow, who will contact the past publisher, TM Publishing, for immediate printing. March update: the roster has not been done. D. Vakaras has started the work and hopes to distribute at April meeting.
12. Payments from EFI Ironross, Durell Controls and Northern Industries are still outstanding for their newsletter advertisements.
13. The Committee discussed the need to set up a Nominating Committee for the next Board of Governors. Mr. Dennis Dawe has agreed to chair the Nominating Committee. The following names were put forward as possible candidates for next year's Board of Governors & Chapter Chairs;
 - President - J. Claessens
 - Vice-President – S. Turner
 - Treasurer – S. Edmunds
 - Secretary – E. Shaw
 - Student Activities – J. Whitty
 - Other Candidates for Chair Positions – T. Pollard, D. Brown
14. A Satellite broadcast & Webcast on chillers & cooling tower design was held at the TRANE office in London last October and was attended by a few chapter members. 100 PAOE points will be recorded for membership attendance at this event. A future ASHRAE Webcast on mould mitigation will be held at the office of Chorley & Bisset Ltd. in mid-April 2005.
15. S. Turner mentioned that he will be setting up a bank account shortly with P Golem for managing this year's CRC Conference expenses & revenues.

NEW BUSINESS

16. Tom Pollard noted the phone committee for resource promotion is to start up in March. He noted he has not received the materials from ASHRAE society yet.
17. Next meeting: **Wednesday, April 13**, Chorley & Bisset Boardroom (369 York Street, Suite 2B) @ 4:30 p.m. Note this is also the date of the Mould satellite broadcast – you are welcome to attend early and watch it with us.

Prepared by D. Vakaras
Reviewed by D. Vakaras

ASHRAE LONDON CHAPTER BOARD OF GOVERNORS MEETING

Attended By Tom Pollard
Derek Vakaras
Joe Claessens
Jamie Whitty
Scott Edmunds

Copies To Distribution
Date May 19, 2005

BUSINESS IN PROGRESS

1. Reviewed and approved minutes of April 13th, 2005 meeting.
2. Bank balance as of May 1, 2005 was approximately \$15,600.00
3. 2003 – 2004 financial records still must be audited. S. Edmunds to audit, with assistance from J. Whitty. Must contact J. Kelly regarding whereabouts of 2003 – 2004 financial records.
4. No. of attendees at the April 26, 2005 chapter meeting was 23. Mr. Gordon Cook of Air Solutions spoke on ASHRAE 62 and its most recent changes.
5. No further chapter meetings are scheduled for the 2004-05 season. The annual golf tournament event is scheduled for June 6th, 2005
6. The chapter had two resource promotion nights, one membership promotion night, two student nights and one refrigeration night to-date. Another membership night will be held during the annual golf tournament event in June.
7. No newsletter this month.
8. Committee Chairs current & projected PAOE points for the year:

Student Activities	-	780 points YTD	(715 points target)
Program	-	975 points YTD	(1,130 points target)
History	-	125 points YTD	(300 points target)
Operations	-	715 points YTD	(850 points target)
Membership Promotion	-	225 points YTD	(770 points target)
Resource Promotion	-	182 points YTD	(920 points target)
Total	-	3,002 points YTD	(4,685 points target)

Reminder: The password for web access to update PAOE points is "London wdv116".

9. J. Whitty has compiled all student membership applications and has forward a copy of the memberships to J. Kelly. D. Vakaras has verified that all student members have been properly assigned to the chapter.
10. S. Turner confirmed that all invoices have been sent and paid by corporate sponsors for students attending the October chapter meeting. Carrier the only outstanding sponsor from January meeting. J. Whitty has compiled a list of corporate sponsors and has forwarded to S. Turner for future invoicing.
11. The chapter has earned Student Activity PAOE points through local members presenting HVAC lectures to fourth-year UWO engineering students. Four ASHRAE chapter members (D. Brown, S. Edmunds, P. Golem & E. Shaw) have presented several lectures on HVAC design & energy calculations during January, February & March 2005.

12. The chapter roster has been published and was distributed by D. Vakaras at the April meeting.
13. All payments for newsletter advertisements have been received.
14. Mr. Dennis Dawe chaired the Nominating Committee for next year's Board of Governors. The following names were put forward as candidates for next year's Board of Governors & Chapter Chairs and have been acclaimed;
 - President - J. Claessens
 - Vice-President – S. Turner
 - Treasurer – S. Edmunds
 - Secretary – E. Shaw
 - Student Activities – J. Whitty
 - Membership – J. Vanderberghe
15. An ASHRAE web-cast on mould mitigation was held at the office of Chorley & Bisset Ltd. in April and was attended by four members. The PAOE points will be recorded by D. Vakaras.
16. S. Turner mentioned that he will be setting up a bank account shortly with P Golem for managing this year's CRC Conference expenses & revenues. Peter will be contacting member shortly for help with administrative & logistics duties.

NEW BUSINESS

17. T. Pollard established a phone committee for Resource Promotion with the assistance of the ASHRAE Board of Governors and Chairs during the meeting. The Committee reviewed a list of past research contributors and assigned BOG members to call each past contributor for donations. T. Pollard asked that calls be completed by the end of next week if possible.
18. J. Claessens, P. Golem travelled to Toronto to attend the CRC Planning meeting & training session for incoming presidents. J. Claessens represented the London chapter while P. Golem attended as CRC chair.
19. D. Vakaras asks each Chair to prepare reports documenting their past year's activities & accomplishments. Each Chair agreed to complete a report and return to D. Vakaras over the next month. D. Vakaras agreed to consolidate and summarize each Chair's report into a Chapter report for the upcoming CRC.
20. Next meeting: **Thursday, June 23th**, Smylie & Crow Boardroom (1 Wortley Rd) @ 4:30 p.m.

Prepared by S. Edmunds
Reviewed by D. Vakaras

ASHRAE LONDON CHAPTER BOARD OF GOVERNORS MEETING

Attended By: Tom Pollard
Derek Vakaras
Joe Claessens
Jamie Whitty
Eric Shaw
Jason Vanderberghe

Copies To: Distribution

Mtg. Date: June 21, 2005

BUSINESS IN PROGRESS

1. Reviewed and approved minutes of May 19th, 2005 meeting.
2. Bank balance as of May 1, 2005 was approximately \$ 15,000.00 (not available)
3. Discussion re who will be attending CRC on Friday, and or Saturday... Tom to send out form to establish attendees List. Joe will register the attendees.
4. Budget for Chapter expenses for CRC was \$4,500.00 for 2004. The 2005 estimate is \$4,455.00 as of June 21st.
5. Attending workshops:
 - Derek – Research
 - Eric – History
6. Golf Tournament did better than expected. As usual...
7. CRC is August 25, 26, 27th.
8. Joe needs:
 - the #'s from last year
 - List of names for the CTTC – they want a member in attendance from each chapter.
 - Regional chairs
 - To pick a date for the September to Dec. meetings... Sept.26th, October 24th, Nov. 28th, Dec.?
9. Program: Scott Turner to contact JLC

NEW BUSINESS / Round Table:

1. **Tom:**
 - Going to put out the June/July Newsletter
 - Golf Tournament had 33 groups
 - Short on Research target by \$1,000.00 – a few companies to contact as yet.
 - Will do a year end note in the June/July newsletter re research.

2. **Scott:**

- Contact JLC re "group hockey game" dates
- Working on banking transition to Scott Edmunds
- Bank requires a current list of directors
- To get chapter register, and Derek to send list of Paid Dues (64) – last year was 73 -74.

3. **Derek:**

- PAOE Points deadline is June 30th.
- Everyone to talk to RVC to get available points. (0 – 75)
- Make summary of details of conversation
- Everyone to copy Derek on communications with RVC
- Year end wrap-up for Golf Tourney
- Where we stood with Committee Chairs current & projected PAOE points for the year:

Student Activities	-	780 points YTD	(715 points target)
Program	-	975 points YTD	(1,130 points target)
History	-	125 points YTD	(300 points target)
Operations	-	715 points YTD	(850 points target)
Membership Promotion	-	225 points YTD	(770 points target)
Resource Promotion	-	182 points YTD	(920 points target)
Total	-	3,002 points YTD	(4,685 points target)

Reminder: The password for web access to update PAOE points is "London wdv116".

4. **Eric:**

- Get meeting minutes – Secretarial duties can be found on ASHRAE site.
- Create CRC Transportation Committee – will be based on what is required for transportation for CRC.

5. **Jamie:**

- Presented ASHRAE Award to 4th year Mechanical Engineering student at UWO
- There are PAOE points for summer placement of Engineering students ... anyone need help?

6. **Jason:**

- Nothing to report

ASHRAE LONDON CHAPTER BOARD OF GOVERNORS MEETING

Attended By: Tom Pollard
Derek Vakaras
Joe Claessens
Eric Shaw
Scott Turner

Copies To: Distribution

Mtg. Date: July 26th, 2005

BUSINESS IN PROGRESS

1. Reviewed and approved minutes of June 21st, 2005 meeting.
2. Rooms & meals confirmations:
 - Chapter to pay CRC fees for London Chapter attendees and Members to re-pay chapter for companion meals costs.
 - Chapter to arrange 4 rooms for Thursday night, and 8 rooms for Friday night.
 - Tom to finalize registrations, schedule, and details and get numbers to Scott Turner (or Scott Edmunds).
3. Attending workshops are:
 - Derek - Research
 - Eric - History
 - Jamie - Student Affairs
 - Jason - Membership
 - Scott T - Program
4. Final \$ for golf tournament TBA by Scott T.
5. Joe still needs numbers & spreadsheet for binders.
6. List of names for CTTC – Chapter Technology Transfer Committee for RVC
7. Updated bios for people who are nominated for regional chairs
8. Meeting dates are confirmed as Sept. 26th, Oct. 24th, Nov. 28th, and hockey game is Dec. 11th – box is booked. Scott to confirm final #'s for meal and tickets.
9. September meeting to be a student night with the topic suggested as a Green Building speaker.
10. October speaker is already booked.
11. Bill Davies is the Windsor program contact if we do a joint regional speaker.
12. The new committee chairs for 2005/2006 are:
 - President: Joe Claessens
 - Vice Pres: Scott Turner
 - Treasurer: Scott Edmunds
 - Secretary: Eric Shaw
 - Research: Derek Vakaras

NEW BUSINESS / Round Table:

1. **Tom:**

- \$8,989.00 total contributions to Research. (90% of goal) Target was \$9,907.00

2. **Derek:**

- Chapter membership #'s have not been published as yet – points cannot be finalized until #'s published.
- Outstanding membership applications and lost cheques for 2 applicants to be resolved.
- Points will fall short of target – currently approx. 3300 pts.
- Make a motion at CRC to get #'s in by June 30th in order that everyone else can "get it done".
- Jamie, Scott T, Eric, and Joe to submit a paragraph on their chapter activities by Aug. 10th so that Derek can do his summary for the CRC binder.

3. **Scott T:**

- Lamplighter Inn have revised the menu for 2005 fall - \$19.95 per person + \$3.00 (= \$22.95) as opposed to \$20.95 per person last year for same menu. Drop the fruit component and try to hold the price at the same rate. Scott to re-negotiate with Lamplighter staff to see how we can hold the line.
- Year on year last year to this year we are close to revenue neutral. Last year was \$19,620.00 aprox. at close.

4. Next meeting to be September 13th @ Smylie & Crow Associates ... 4:30pm

5. and Tom Pollard is still doing the Chapter Newsletter... 😊

ASHRAE LONDON CHAPTER BOARD OF GOVERNORS MEETING

Attended By: Tom Pollard
Derek Vakaras
Joe Claessens
Eric Shaw
Jamie Whitty

Copies To: Distribution

Mtg. Date: September 14th, 2005

BUSINESS IN PROGRESS

1. Reviewed and approved minutes of July 26th, 2005 meeting.
2. Treasury report – Report n/a
3. Quick report from each chair – CRC workshops – MBO objectives – send report to Regional Chair listing 3 items to do this year...
 - CTTC - Program (Scott will not be there)
 - Student Activities – Jamie
 - Membership
 - Resource Promotion – Derek
 - History – Eric
4. Newsletter
 - Ad for Job posting – Company wants to advertise in London Chapter Newsletter – check with J. Bundock re doing either on the website, or on the Chapter newsletter.
 - New Engineer Award – for young engineers ASHRAE Society want it mentioned in the newsletter...
5. Free Passes to ASHRAE Winter Meeting to be handed out at Dinner Meeting.

NEW BUSINESS / Round Table:

1. **Tom:** Business card rate for newsletter... leave rate the same... \$100/year. Tour cost to go out of town as a possible idea. Newsletter to be done on Monday next week. Need to get it out 2 weeks before the meeting.
2. **Jamie Whitty:** Student meeting this meeting
3. **Derek:** Wants full circle cheques by the first dinner meeting. Resource promotion in newsletter. November is Resource Promotion night if not available by October.
4. **Eric:** Historical Info could be stored in a cabinet @ Baymar for the time being.
5. Next meeting to be October 12th @ Smylie & Crow Associates ... 4:30pm



Handwritten scribble or mark.

Handwritten scribble or mark.

ASHRAE LONDON CHAPTER BOARD OF GOVERNORS MEETING

Attended By: Joe Claessens
Tom Pollard
Jason V.
Scott Turner
Jamie Whitty
Eric Shaw

Copies To: Distribution

Mtg. Date: October 12th, 2005

BUSINESS IN PROGRESS

1. Reviewed and approved minutes of Sept 14th, 2005 meeting.
2. Treasury report – N/A
3. London Chapter Program is pretty much set for the year... see New business for details...

NEW BUSINESS / Round Table:

Scott Turner:

- Program is pretty much set... (see below)
- Schedule to be published in the newsletter.
- Lamplighter has us listed in the Regency room for November, want us to take the ½ of the Chelsea room...
- We need to re-vamp the calling list for the chapter to revive some of the attendees.
- Meeting dates to finalize the schedule for the Lamplighter are Nov. 28th, Jan. 30th, Feb. 27th, March 27th, April 24th, June 5th is golf tournament.

ASHRAE 2005 – 2006 PROGRAM

DATE	SPEAKER	TOPIC OF DISCUSSION
Sept. 26, 2005	Mark Read (LHSC)	London Hospitals & Energy Conservation
Oct. 26, 2005	Tom Mills, P.Eng. (Spring Air Systems)	NFPA 96
Nov. 28, 2005	Craig Fischbach (Florida Heat Pump)	Heat Pump Technology
Dec. 11, 2005	Social Event	Knights Game 2:00PM
Jan. 30, 2006	John Paleczny	Linkage-less Controls
Feb. 27, 2006	Union Gas	Updates To Ontario Gas Code
Mar. 27, 2006	Tour	TBA
Apr. 24, 2006	William J. Coad, P.E.	The Ethics & The Economics of Energy Conservation
May. 2006	Golf Tournament	Forest City National

Joe Claessens:

- Perfect Circle cheques to Derek
- Student Sponsors needed for attending students.
- Do LEEDS speaker at the UWO during a lunchtime – bring in sandwiches, and do a 1 hour presentation in Mid January.
- Tickets for the hockey game will be \$30.00 – game is Sunday Dec. 11th @2pm. Newsletter by e-mail vs fax – time consuming to do by e-mail with the newsletter attached...
- Revamp the calling list.

- **Discussion: Bar out of room takes away from the tech session, - should the bar be back in the room. Decided not for now.**

Jason V.:

- **Membership promotion special is in full swing. \$ in prizes for signing new members. October 2005 is a membership night.**

Tom Pollard:

- **Newsletter stuff required by October 17th (Monday)**
- **Newsletter notice is going out with a link to the website to read the newsletter.**

Jamie Whitty:

- **Student night set.**
- **We are planning to offer to do the UWO Lectures for Mechanical Eng. classes the same as last year.**

Eric: ASHRAE Chapter Historical info stored at Baymar office in small cabinet for chapter use. Anyone wishing access should contact Eric to arrange time to view.

Next meeting to be November 15th @ Smylie & Crow Associates ... 4:30pm

ASHRAE LONDON CHAPTER BOARD OF GOVERNORS MEETING

Attended By: Joe Claessens
Tom Pollard
Scott Turner
Jamie Whitty
Scott Edmunds
Jason Vandenberghe

Copies To: Distribution

Mtg. Date: January 17th, 2006

BUSINESS IN PROGRESS

1. Reviewed and approved minutes of November 14th, 2005 meeting
2. Novembers meeting was Research.
3. Jason V. to have Roster ready for January Meeting.
4. Distinguished Lecturers is set for April meeting. We need to provide a big promo for meeting. We will need to send information to the Hamilton and Windsor chapters. Scott will contact Bill Davies of the Windsor chapter to see what they have done and if Bill Code will be lecturing at their chapter.
5. Treasury report – Bank Balance @ 17,645.58
6. All student sponsors have been invoiced for the September student night.
7. The hockey game in December didn't go as well as expected, there were some tickets left over and it was about a \$470.00 loss. It was agreed that this may be the last one, we will really have to look into before we commit to this next year.
8. Items for newsletter are required by January 20th, 2006.

NEW BUSINESS / Round Table:

Jamie Whitty:

- January's meeting will be second Student Night, Jamie will send something to Tom for the newsletter and will talk to UWO and Fanshawe.
- All the volunteer speakers from our chapter are set for lecturing at UWO.

Scott Turner:

- Will determine the actual date and check with Trane if their office would be available for the webcast in April '06. It is believed that Trane paid for the small lunch the last time, but this year we agreed that the chapter would pick up the tab.
- Region would like to have our chapter do a review of an ASHRAE Code or Standard. Scot will look into what is all involved, we will need 3 to 4 members involved.
- Scott would also like to do a Tech Award, the London Chapter has never applied for an award.

Jason Vandenberg:

- Will have roosters ready for January Meeting.
- Aqua-Tech will be willing to Sponsor this years Golf Tournament. Joe will contact Palser to see if they need a sponsor.

Scott Edmunds:

- His February 7, 2006 the Hamilton Chapter is having a speaker on the new gas code, they would like us to advertise in our newsletter. Our February meeting is also going to be on the Gas Code. Scott Edmunds will find out who is doing the lecture at the Hamilton Chapter and see if they would be available for our meeting. Scott will also contact TSSA and few high tech members to see if someone is available. If not then Scott and/or Eric may be doing the seminar.

Joe Claessens:

- Next meeting to be February 14th @ Smylie & Crow's office. 4:30pm

ASHRAE LONDON CHAPTER BOARD OF GOVERNORS MEETING

Attended By: Joe Claessens
Tom Pollard
Jamie Whitty
Scott Edmunds
Derek Vakaras

Copies To: Distribution

Mtg. Date: February 16th, 2006

BUSINESS IN PROGRESS

1. Reviewed and approved minutes of January 17th, 2006 meeting
2. January's meeting was our Second Student Activity meeting. Jamie put an invitation in the February newsletter and he also will talk to UWO and Fanshawe directors, we had 5 students attend.
3. Jason V. to have roster ready for February Meeting.
4. Distinguished Lecturers is set for April meeting. We need to provide a big promo for meeting. We will need to send information to the Hamilton and Windsor chapters. Scott will contact Bill Davies of the Windsor chapter to see what they have done and if Bill Coad will be lecturing at their chapter. Scott Edmunds will ask Bill Davis if Windsor Chapter is having Bill Coad piggy back nights.
5. Treasury report – Bank Balance @ \$14,166.56
6. All the volunteer speakers from our chapter are set for lecturing at UWO.
7. Scott Turner has determined that the webcast is April 19th 2006 from 1:00 to 4:00 PM. Trane has offered their office board room for this event. This year we agreed that the chapter would pick up the tab for lunch and beverages.
8. Region would like to have our chapter do a review of an ASHRAE Code or Standard. Scott will look into what is all involved; we will need 3 to 4 members involved.
9. Scott would like to do a Tech Award; the London Chapter has never applied for an award.
10. Aqua-Tech is willing to Sponsor this year's Golf Tournament. Joe contacted Palser to see if they need a sponsor, but has not heard back. He will try again to get an answer.
11. Items for newsletter are required by February 17th, 2006.

NEW BUSINESS / Round Table:

- The Chapter gave Derek a \$750.00 cheque for ASHRAE Research. More money will be provided after our fund raisers at the Golf Tournament in June.
- There was some discussion as to whether life members should be in the Chapter Roster and if they should be receiving a rooster. It was agreed that they should. We will check with Jason to see what stage the rosters are at if it is too late we will have to make sure it is done for next year.

Jamie Whitty:

- Some of the speakers for UWO have completed their lectures.

Scott Edmunds:

- The person that did the Gas Code talk for the Hamilton Chapter on February 7, 2006 will not be available for our February meeting. Scott tried arranging for people from TSSA but they were also not available. Scott will try a few other contacts but if they are not available then Scott and/or Eric may be doing the seminar.

Derek Vakaras

- The February meeting will be our second Research Promotion meeting. Derek has a small power point presentation that he will be showing.

Joe Claessens:

- Scott Turner could not attend the meeting; however, the March tour is set for Core Energy on March 27, 2006 @ 5:30. Dinner will be after the tour at the Marienbad Restaurant located on Carling Street. We should provide maps and addresses as part of the March newsletter for both locations.
- Next meeting to be March 14th 2006 @ Smylie & Crow's office. 4:30pm

ASHRAE LONDON CHAPTER BOARD OF GOVERNORS MEETING

Attended By: Joe Claessens
Tom Pollard
Scott Edmunds
Eric Shaw
Scott Turner
Jamie Whitty
Jason Vandenberghe

Copies To: Distribution

Mtg. Date: March 14th, 2006

BUSINESS IN PROGRESS

1. Reviewed and approved minutes of February 16th, 2006 meeting
2. Jason V. to have roster ready for March Meeting.
3. Discuss life members... Jerry Lavender, John Payne, John Bisset, Wayne Barker... put insert in rosters?
4. Distinguished Lecturer is set for April 24th meeting. Bill Coad will speak on Sustainable Design. We need to provide a big promo for meeting. We will need to send information to the Hamilton and Toronto chapters. LDCA newsletter also would be a good venue. Scott contacted Bill Davies of the Windsor chapter to see what they have done and Bill Coad will be lecturing at their chapter also. We have his bio info from society. Registration form to be added to newsletter, and will reflect the cost of \$30.00 - \$35.00 @ the door. Pre-registrations to be sent to Noreen at UG.
5. Treasury report – Bank Balance @ TBA – Scott to advise.
6. Almost all of the volunteer speakers from our chapter have completed lecturing at UWO. One to go.
7. Scott Turner has determined that the webcast is April 19th 2006 from 1:00 to 4:00 PM. Trane has offered their office board room for this event. This year we agreed that the chapter would pick up the tab for lunch and beverages. Alternative offering of Montreal Chapter to have us join theirs.
8. Region would like to have our chapter do a review of an ASHRAE Code or Standard; we will need 3 to 4 members involved. Joe volunteered to do it... Scott said by Sunday night at midnight...
9. Scott would like to do a Tech Award; the London Chapter has never applied for an award. Not this year....
10. Aqua-Tech will be the Sponsor for this year's Golf Tournament. Hugh said that Terry Archesee has accepted and Tom will put a news release in the newsletter.
11. Items for newsletter are required by March 17th, 2006.

NEW BUSINESS / Round Table:

Joe Claessens:

- Joe got letter from Region 2 Treasurer Bob Dollard for money from chapters for the CRC in Hamilton.
- Dave Fox wants to do the tabletop on the Nepronic Gas Humidifier @ the next meeting at the Lamplighter
- Received notice from the UWO holding the ESCO AGM this year and is looking for sponsors for the meeting. Joe indicated that the Local ASHRAE Chapter could set up a booth. \$500.00?

Jamie Whitty:

- Student rate should still be good for the tour meeting and dinner at the Marienbad.
- Does not yet know what chair to stand for.

Eric Shaw:

- Nothing to report

Jason V.:

- Rob Davidson is at Black and Mac – Jason has a number of potential new members (potential of 10).

Scott Turner:

- Reviewed menu details – can't type that fast... \$30.00/plate.
- Need more new blood on the executive...
- Need discussion re the upcoming year as to who is going to assume the chairs. Jamie unsure as to which he will do, Scott Turner for President, Joe Claessens to Research, Jason V to secretary,
- Get Karl Gilroy on board! Eric to call...
- John ? @ Belimo

Scott Edmunds:

- 30 people attended the last meeting in February.
-

Tom Pollard:

- Tom has been collecting the society notes for the newsletter.

A map and directions for the Marienbad Restaurant and the tour will be added to the newsletter.

Next meeting to be April 5th to the 6th 2006 @ Smylie & Crow's office. 4:30pm

**ASHRAE LONDON CANADA CHAPTER
BOARD OF GOVERNORS
MEETING MINUTES**

Date: Tues. April 11, 2006 4:30PM

Attended by:	Tom Pollard	Jack Maynard
	Derek Vakaras	Fei yu Huang
	Eric Shaw	Scott Turner
	Karl Gilroy	Jamie Whitty

1. Reviewed Minutes of Mar. 14/2006 accepted.
2. Joe Claessens to check with Jason V. about rosters being handed out at Apr Chapter Meeting
3. Distinguished Lecturer Promotions going out, Joe C. & Tom P. to send to Architects.
4. Scott Edmunds Absent, no bank balance to report.
5. Volunteer teaching at the U.W.O. is complete
6. Apr. 19 Satellite Broadcast is scheduled at Trane London 1:00 to 4:00. Tom P. to send out another notice.
7. Scott Turner indicated that a technical award submission by London Chapter will not happen this year. A review of chapter 31 "Kitchen Ventilation" of the Applications Handbook was selected for review by a committee made up of: Tom P., Joe C., & Fei yu for completion Apr. 19. An acceptable mutual meeting date to collaborate & critique will be set ASAP in order to submit to the CTTC RVC.
8. Scott T. to submit a summary of the March meeting to Tom P. for newsletter

New Business

9. Joe C. to follow up with Scott E., regarding payment of fees for CRC Hamilton, need to confirm # of Dues Paying to derive amount.
10. Dave Fox of NISCO looking to do a table top at Apr. Chapter Meeting – Joe C. to confirm with them.
11. UWO E.S.C.O. AGM requesting sponsorship by ASHRAE – A booth by ASHRAE was discussed. Joe C. will follow up and forward info to executive for comment and review.
12. Scott Edmunds to look into inviting more students out to October meeting
13. "Dressing up" the meal for the Apr. 24 Chapter Meeting was discussed and approved by the executive to base price of \$28.95 per plate +++.
14. Assigning and firming up chair positions for next year was discussed. Scott T, & Joe C to talk with Scott E. regarding the VP Chair. Jamie W. has decided to step down as Student Activities and assist newcomer Jack M. Karl Gilroy agreed to membership chair with some help assistance from previous membership chairs. Dennis Dawe's name was brought forth as a potential for Historian – Joe C. to follow up with Dennis, and Tom Pollard to remain as

Newsletter Editor and Webmaster and is planning on giving access to executive amend and send out notices from the website.

15. Derek V. is well on his way to achieving his RP goal and handed out some follow up requests to executive for a phone call follow up.
16. Derek Vakaras asked Scott Edmunds if he could make the new Professor of the HVAC program at UWO aware of the many resources that the local ASHRAE chapter can make available to him.
17. 5:45 meeting adjourned

Next BOG Meeting May 16 – Location To Be Announced

President
VP CTTC
Treasurer
Secretary
Membership
Research

Joe Claessens
Scott Turner
Scott Edmunds
Eric Shaw
Jason Vandenberghe
Derek Vakaras

Student Activities
Historian
Reception
Special Events
Newsletter

Jamie Whitty
Eric Shaw
Scott Edmunds
-
Tom Pollard



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

LONDON CANADA CHAPTER #116
LondonCanada.Ashraechapters.org

President's Report 2005-2006

The London area has been experience one of its largest construction booms in years and as a result everyone in the chapter has been very busy with their own jobs, despite this the London Chapter still had a strong and successful year.

Membership: Our focus this year as requested by at the CRC was to increase membership. Our membership chair was successful in attracting a few new members but we lost a few existing members resulting in a small increase. We have however generated considerable interest that will hopefully result in more new members in the coming years. We are looking into our golf tournament which is very successful as a avenue to reach these potential new members.

Student Activities: Our Student Activity committee did another outstanding job this year. Our chapter held two student nights this past year, one in September and one in January. Students who attended any meeting had their ASHRAE student membership sponsored by our chapter. We met with the 4th year UWO Mechanical Engineering students and the Fanshawe College students to present a short introduction about ASHRAE, our London chapter meetings, and the benefits of joining as a student member. Brenda Stonehouse (a former SA chair) coordinated on campus tours at UWO for the 4th year HVAC I & HVAC II students. The students got to see the north campus chiller plant, the campus power plant/ boiler house, and the social sciences building mechanical penthouse. Student attendance at chapter meetings did not exceed last year; this was largely due to the program change at the January meeting as our Green Building Design Speaker was not available to attend.

Resource Promotion: Our Resource Promotion committee had a very successful year. We surpassed our goal of \$8,448.00 by 140.9% to \$11,900.00. We had a small amount of money that was not received by society by the deadline for the 2004-2005 campaign and that money was carried over to this year which helped with this year's campaign. Based on our chapter size, this successful campaign put our Chapter second in Society for percentage of goal, second in society for dollars per member and second for total PAOE points. Once again we had a successful golf tournament, with donations of over \$600.00. We had two Resource Promotion Nights this year during chapter meetings. During our last Promotion night our Research Promotion Chair did a very interesting power point presentation on the advantages of ASHRAE Research in our industry.

Technology Transfer: We had a fairly successful program this past year. Attendance was equivalent to last year with an average 46 attendees. Although phone campaign for meeting attendance seemed to come up a little short, numbers at the door were a pleasant surprise. Our April meeting featured DL William Coad, and the event was attended by 55 people. RVC Guy Perreault made a visit to our Chapter for our May meeting to meet with the executive and address the chapter defining the role the Technology Transfer Chair plays within the organization.

Finance: Finances continue to be stable with a small increase in our balance very year. The expense of our program has been on a steady rise over the pass few years. Despite the increase in expenses and due to steady increase in our bank account we decide to reduce the cost to our members who attend the monthly chapter meetings hoping to see a increase attendance. As it turns out we ended up with the same average attendance over the year and due to a successful golf tournament still managed a increase in overall venue.

Joe Claessens
ASHRAE London Chapter President 2005-2006

BOG Meeting September 13th 2006

Attended by: Scott Turner Scott Edmunds Tom Pollard
 Joe Claessens Eric Shaw Jason Vandenberghe

1. Reviewed CRC – chairs to get their MBO's to their RVC by Septmeber 20th and tally their POAE points from the CRC.
2. Discussed the chapter's budget for the upcoming year,
 - Lamplighter / keeping \$25.00 per meal & \$15.00 for a student
 - Talked about increasing chapter dues
 - Chapter finances are in line
 - Manufacture's table top \$100.00 x 4 through out the year
 - Bump up student award to \$500.00
 - Newsletter advertising @ \$100.00 per business card
 - Possibly adding advertising to our Membership Roster Books
 - Eric, Scott Edmunds and Scott Tuner to meet w/ Brenda at the bank Tuesday September 19th
3. Scott Turner to keep the 04 –05 books at his location
4. Scott Turner to review call list and have everyone on the board try to call at least 10 members before our monthly meetings
5. Jason had an idea about having a ASHRAE London "Trade Show" in March @ \$300.00 per vendor / 20 to 30 vendors? To be discussed in the newsletter.
6. Full circle money of \$100.00 CDN dollars to be in by November 15th
7. Joe to work on Tech. Award for the chapter
8. Tom is more than willing to the chapter newsletter again this year !
9. Jason to put together a list of members who can help Eric at each monthly meetings collect the money, always to be at least two chapter members at each meeting helping .
10. Daryl Somers to do CRC debriefing at the September meeting .
11. Eric to put History info on the chapter website / a report on the chapter's past presidents .
12. Scott Edmunds to give Eric chapter receipts
13. Student night to be in September / October will be Membership night / November will be Research night
14. last but not least – reviewed and accepted the minutes from the July BOG meeting . (actually we did this first !)



ASHRAE LONDON CHAPTER BOARD OF GOVERNORS MEETING

Attended By Tom Pollard , Scott Turner
Jack Maynard, Daryl Somers
Scott Edmunds, Karl Gilroy
Joe Claessens

Copies To Distribution
Date of Meeting: October 16, 2006

BUSINESS IN PROGRESS

1. Reviewed and approved minutes of September 13, 2006 meeting.
2. All MBO's have been sent in and all chairs were asked to up date their POAE points. The web site is not working yet for POAE, but Society indicates it will be soon.
3. The account balance was not available at the meeting, the treasurer gave a report after the meeting balance is \$23,091.90.
4. It was discussed as to whether we wanted to solicit table tops for the monthly meetings. The concern is whether the existing venue we have at the Lamp Lighter is user friendly for manufacturers and supplies to provide a table top, the space is small and if we move to a larger room we need to guarantee a minimum number for the meeting or pay a room rental charge, the other concern is that the existing bar area is not companionable with the room.
5. September's meeting as our first student night we had 10 students and Jack as memberships for 6 of the ten. Jack will be looking for sponsors to pick up the cost of the ten students that attended.
6. The program is set for October's meeting and November's Meeting. There is a speak set for either the January or February meeting., that there is still talk of a trade show for later in the year March or April with a DL for the other month. Scott Edmunds will send the information to Tom Pollard for the October Newsletter.
7. November's meeting will be Research Promotion Recognition night and Membership Night.
8. There was a lengthy discussion on the proposal of a trade show in the spring as one of the monthly meetings. Several questions were raised regarding time of the show, 4:00 to 8:00 was suggested, how large would it be? Cost of the venue? Would we provided or typical meal or something lighter? What would be the cost to the manufacturer or supplier? It was decided that we would bring it up at the October meeting and get some input from the membership. If it is a go, the organization needs to get started soon, Karl Gilroy indicated he would be willing to be the quarterback if required.
9. All chairs are to bring their \$100 donation for Research to the October meeting to ensure we get the money in for the Full Circle award.
10. It was discussed that al the chairs should do a 1 to 2 minute little talk at one of the up coming meetings to introduce themselves and to le everyone know what their duties with the chapter are. Jack will do one for Student Activities at the October meeting.

Next meeting: **Monday , November 13**, at Somers Environmental Products (96 Meg Drive) @ 4:15 p.m.



**ASHRAE LONDON CANADA CHAPTER
BOARD OF GOVERNORS
MEETING MINUTES**

Date: Mon. Jan. 15/2007 (4:30pm)

Attended by: Tom Pollard Scott Edmunds
Scott Turner Karl Gilroy
Daryl Somers

- Discussed Jan. meeting and all is lined up.
- Bank Balance as of Dec. 18/06 is \$19,530.72
- Scott E. to firm up tour at UWO for Feb., Scott will follow up with Jack Maynard regarding students and discuss best tour option with George Q. at UWO
- Scott T. with help of Somers Staff will try to find place for dinner near UWO
- March meeting is set with DL, Scott E to book room for DL.
- Jack Maynard to advise when next student award is to be presented and provide details to Tom Pollard for publishing in newsletter
- Tom P requires all newsletter items by end of this week
- The Lamplighter Crystal Ball Room has been booked for Apr. 25 for ASHRAE London Chapter Trade Show.

New Business

Program/CTTC

- Brainstorm list of potential exhibitors for trade show (see separate page listing company and follow up by BOG member)
- Cost per exhibitor estimated to be \$300.00 and shall include 2 meals
- Time of show tentatively set for 3:00 to 8:00 with set up any time after 12:00 noon
- Advanced tickets \$10 with tickets available at the door for \$15 includes admission to the show, dinner, entry for door prize(s) – Exhibitors are exempt for winning prizes.
- Room will be licensed “all to be held in one room”
- Scott T. to contact Tom D. of LDCA to get his input on potential candidates for Open Panel Discussion.

Membership – nothing to report

Student Activities – Absent

History – Absent

Newsletter – Tom to will prep newsletter with target completion date Jan. 22

Treasurer - Absent



2017
12
10

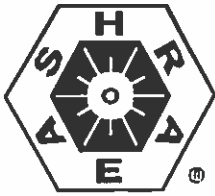
ASHRAE LONDON BOG June 4th 2007

Attendance: Joe Claessens	Eric Shaw
Scott Edmunds	Jason Vandenberghe
Scott Turner	Tom Pollard
Karl Gilroy	Mitch

- Reviewed the POAE points for each chair
- Karl - Membership is 750 up from 690 year before, currently have 106 assigned members
- Jack - Student Activities is at 631 and the year before was 1135, but still has points to add up!
- Scott Edmunds – CTTC is 1175 currently and last year was 895
- Eric – History – has 100 points and par is 200 – Eric and Tom to brainstorm to get to par
- Joe – Research Promotion – still waiting for some last minute donations to come but is looking very strong at this point, Joe is currently 2nd only to Quebec but very close
- Scott Turner – Chapter Operations – par is 400 and currently has 690 and last year was 895 but Scott still has points to add up
- ALL RVC reports due into Scott Turner NO later than June 30th
- Current Balance is \$17,856.00
- Discussed the CRC
- Tom brought info on Moncton for the members who are attending the CRC
- All CRC workshops start at 1:00 pm on the Friday
- Attending are, Scott turner, Scott Edmunds, Eric Shaw, Karl Gilroy, Tom Pollard and Jason Vandenberghe (filling in for Mitch)
- Scott T. handed everyone their info and registration forms
- Members who are attending are responsible for booking their plane tickets and hotel rooms
- If you are bringing a spouse please make sure you have all the correct information on the registration forms
- Scott E. and Eric to talk with Daryl Somers about CRC reports / responsibilities
- Final reports from all chairs due to Scott by July 15th

Next meeting if required will be scheduled by Scott Turner in July before the CRC





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

LONDON CANADA CHAPTER #116
LondonCanada.Ashraechapters.org

President's Report 2006-2007

The London area continues to experience a strong local economy leaving the chapter members with very busy schedules. Despite these busy times the London chapter meetings still yielded great turn out at monthly meetings and overall we enjoyed a strong and successful year.

Membership: Our focus this year as requested by at the CRC was to maintain current membership & increase membership, especially YEA members. Our membership chair was successful in attracting a few new YEA members but we lost a few existing members resulting in a small increase. We have however generated considerable interest that will hopefully result in more new members in the coming years. We promoted memberships at our golf tournament this year which resulted in a few potential new members.

Student Activities: Our Student Activity committee did another outstanding job this year. Our chapter held two student nights this past year, one in September and one in January. Students who attended any meeting had their ASHRAE student membership sponsored by our chapter. We met with the 4th year UWO Mechanical Engineering students to present a short introduction about ASHRAE, our London chapter meetings, and the benefits of joining as a student member.

George Qubty (active chapter member) coordinated on campus tours at UWO for the 4th year HVAC I & HVAC II students. The students got to see the new Robart Building, a class III environmental biosphere used for doing soil research. Student attendance at chapter meetings exceeded last year.

Resource Promotion: Our Resource Promotion committee had a very successful year. After last year's great success which increased our goal from \$8,448.00 to \$10,000.00 our committee still surpassed the goal and the high five and fell less than \$200 short of the Challenge Goal raising \$12,308.12. Due to unfortunate circumstance there was an additional \$600.00 that was not received in time for this campaign which would have put the committee well over the Challenge Goal. Once again we had a successful golf tournament, with donations of over \$600.00. We had two Resource Promotion Nights this year during chapter meetings.

Technology Transfer: We had a fairly successful program this past year with an average attendance of 44 members per chapter meeting, close to last year's levels. Our February meeting featured a tour of two new state-of-the-art facilities at the University of Western Ontario, the Biotron and Animal Care Facility. This event was very well attended by 40 people, including many students. Our April meeting featured a visit by DL Evans Lizardos, P.E. who presented methods to control temperature & humidity using conventional HVAC equipment. This meeting was attended by 25 people. The main theme of all topics presented at our chapter meetings was energy efficiency & management. The list of topics included Energy Mgmt Information Systems, System Effect Factors, Air Distribution in Green Buildings, Sustainability & Building Environments to name a few.

Finance: Finances continue to be stable with a small increase in our balance every year. The expense of our program has been on a steady rise over the past few years. Despite the increase in expenses and due to a steady increase in our bank account we decided to reduce the cost to our members who attend the monthly chapter meetings hoping to see an increase in attendance. As it turns out we ended up with the same average attendance over the year and due to a successful golf tournament still managed an increase in overall revenue.

Scott Turner
ASHRAE London Chapter President 2006-2007

2007-2008 ASHRAE CRC CHAPTER SUMMARY REPORT

REGION II
 CRC LOCATION MONCTON
 CHAPTER LONDON
 CHAPTER NUMBER 116

CHAPTER WEBSITE WWW.LONDONCANADA.ASHRAECHAPTERS.ORG

1. MEMBERSHIP PROMOTION

	YTD/REPORTED 2006-2007	REPORTED 2005-2006	REPORTED 2004-2005
NUMBER OF AREA-ASSIGNED MEMBERS (AAM)	106	96	98
NUMBER OF CHAPTER DUES PAYING MEMBERS (CDPM)	102	74	72
NUMBER OF NEW MEMBERS TO DATE (AAM)	5	6	4
NUMBER OF MEMBERS DELINQUENT TO DATE (AAM)	9	10	5

2. STUDENT ACTIVITIES

NUMBER OF NEW STUDENT MEMBERS	32	31	44
NUMBER OF ACTIVE STUDENT BRANCHES	0	1	1

3. CHAPTER TECHNOLOGY TRANSFER

NUMBER OF CHAPTER TECHNOLOGY AWARDS	0	0	0
NUMBER OF PRESENTATIONS ON REFRIGERATION TECHNOLOGY	0	0	0
NUMBER OF CHAPTER TECHNICAL SESSIONS, TECHNICAL SEMINARS, PROGRAMS OR TOURS	2	1	1
NUMBER OF SOCIAL EVENTS HELD SEPARATE FROM A TECHNICAL PROGRAM (I.E., GOLF TOURNAMENTS, CHRISTMAS PARTY, PICNICS, ETC.)	1	2	2
CHAPTER MONTHLY MEETING ATTENDANCE (AVERAGE)	43	46	46

4. RESEARCH PROMOTION/FUNDRAISING

CHAPTER GOAL	\$10,000	\$8,448	\$9,880
TOTAL DOLLARS CONTRIBUTED	\$12,308	\$11,900	\$8,989

5. CHAPTER HISTORY

CHAPTER HISTORICAL DISPLAY AT CRC	YES	NO	NO
CHAPTER HISTORY MOVED TO WEB SITE	YES	YES	YES

6. FINANCES

TOTAL FUNDS BALANCE	\$20,796.51	\$22,383.43	\$19,620.02
CHAPTER DUES	\$45	\$40	\$40
MEMBER COST OF MEALS	\$25	\$25	\$30
DATE OF LAST CHAPTER AUDIT	AUGUST 2006	AUGUST 2005	AUGUST 2003

FALL CRCs – ENTER DATA FOR THE YEAR JUST COMPLETED IN THE “YTD REPORTED” COLUMN AND ENTER DATA FOR YEAR-END RESULTS OF PREVIOUS YEARS IN THE LAST TWO COLUMNS.

SPRING CRCs – ENTER DATA FOR THE CURRENT YEAR IN THE “YTD REPORTED” COLUMN AND ENTER YTD RESULTS OF PREVIOUS YEARS IN THE LAST TWO COLUMNS.



11-20-2011

MANUAL FOR CHAPTER OPERATIONS

PLEASE COMPLETE FORM AND EMAIL TO: jkirksey@ashrae.org AND YOUR DRC.

2007-2008

ASHRAE CHAPTER INFORMATION QUESTIONNAIRE

(99-10-02-03-55/00-10-28-08/BOD 03-06-27-1C/05-10-30-08)

Complete and mail to ASHRAE (Attn: Member Services Dept.), 1791 Tullie Circle, N.E., Atlanta, Georgia 30329, or fax to (404) 321-5478, with a copy to your Director and Regional Chair, no later than June 1. Addresses should be the same as used for other Society mailings, including the Journal, Handbook and miscellaneous mailings. Please notify Headquarters and Regional Chair promptly of questionnaire changes.

IMPORTANT: USE PROPER NAMES (NOT NICKNAMES) AND INCLUDE MEMBER NUMBER BESIDE ALL NAMES. AREA CODES MUST BE INCLUDED WHEN LISTING TELEPHONE AND FAX NUMBERS. CHAPTER OFFICERS AND COMMITTEE CHAIRS MUST BE MEMBERS OF ASHRAE IN GOOD STANDING WITH THE GRADE OF ASSOCIATE MEMBER OR HIGHER.

CHAPTER London Canada # 116 REGION II SOCIETY YEAR* 2007-2008
 (*For Spring CRCs Society Year indicates Society year beginning July 1. For Fall CRCs Society Year indicates the current year.)

MEETING DATES FOR THE UPCOMING SOCIETY FISCAL YEAR

July	_____	October	<u>29 / 2007</u>	January	<u>28 / 2008</u>	April	<u>28 / 2008</u>
August	_____	November	<u>26 / 2007</u>	February	<u>25 / 2008</u>	May	_____
September	<u>24 / 2007</u>	December	_____	March	<u>31 / 2008</u>	June	<u>2 / 2008 (Golf)</u>

Regular Meeting

Location Lamplighter Inn, 591 Wellington Rd S., London, ON Canada

Chapter's Mailing

Address ASHRAE London Chapter C/O Chorley & Bisset Ltd., 369 York St, Suite 2B, London, ON, Canada N6B 3R4

PRESIDENT

Name Scott Edmunds # 5211475
 Address 109 Commissioners Rd W
London, Ontario
N6A 4P1 Canada
 Business Name Union Gas
 Business# 519-667-4120
 FAX# _____
 EMAIL SEdmonds@uniongas.com

PRESIDENT-ELECT

Name _____ # _____
 Address _____

 Business Name _____
 Business# _____
 FAX# _____
 EMAIL _____

VICE PRESIDENT

Name Eric Shaw # 5013538
 Address 241 Consortium Court,
London, Ontario,
N6E 2S8 Canada
 Business Name Baymar Supply
 Business# 519-964-0022
 FAX# 519-680-7039
 EMAIL eshaw@baymarsupply.com

SECRETARY

Name Jack Maynard # 8069598
 Address 90 Bessemer Rd
London, Ont
N6E 1R1 Canada
 Business Name Johnson Controls
 Business# 519-681-1221
 FAX# 519-681-9322
 EMAIL Jack.C.Maynard@jci.com

TREASURER

Name Jason VandenBerghe # _____
 Address 4390 Paletta Court
Burlington, ON
L7L 5R2 Canada
 Business Name Aquatech
 Business# (905) 631-5815
 FAX# (905) 637-8655
 EMAIL jasonv@aquatech.ws

CHAPTER BOARD OF GOVERNORS

Name Daryl Somers # 5093061
 Address 96 Meg Drive
London, ON
N6E 3T7 Canada
 Business Name SomersEnvironmental Products
 Business# 519-681-1977
 FAX# 519-686-9324
 EMAIL daryl@somerssep.com

MANUAL FOR CHAPTER OPERATIONS

PLEASE COMPLETE FORM AND EMAIL TO: jkirksey@ashrae.org AND YOUR DRC.

CHAPTER BOARD OF GOVERNORS

Name Dennis Dawe # 5101932
Address 369 York St
London Ont
N6B 3R4 Canada
Business Name Chorley & Bisset Ltd
Business# 519-679-8660
FAX# 519-679-2145
EMAIL dennis.dawe@chorley.com

CHAPTER BOARD OF GOVERNORS

Name Peter Golem # 267104
Address 369 York St
London Ont
N6B 3R4 Canada
Business Name Chorley & Bisset Ltd
Business# 519-679-8660
FAX# 519-679-2145
EMAIL peter.golem@chorley.com

CHAPTER BOARD OF GOVERNORS

Name Joe Claessens # 5017686
Address 1 Wortley Road
London Ont
N6C 3N7 Canada
Business Name Smylie & Crow Associates Inc
Business# 519-672-8511
FAX# 519-672-5906
EMAIL jclaessens@smyliecrow.ca

CRC DELEGATE

Name Scott Edmunds - refer to President # 5211475
Address
Business Name
Business#
FAX#
EMAIL

CRC ALTERNATE

Name Eric Shaw - refer to Vice President # 5013538
Address
Business Name
Business#
FAX#
EMAIL

MEMBERSHIP PROMOTION COMMITTEE CHAIR

Name Karl Gilroy # 8030488
Address 10 Pacific Court
London, Ont
N5V 3K4 Canada
Business Name EH Price
Business# (519) 451-5100
FAX# (519) 451-8726 kgilroy@price-livac.com

STUDENT ACTIVITIES COMMITTEE CHAIR

Name Mitch Gascoyne # 8078897
Address 8 Belleise Court
London, Ont
N5V 4L2 Canada
Business Name Trane Canada - London Branch
Business# (519) 453-3010
FAX# (519) 453-3024
EMAIL MGascoyne@trane.com

HISTORIAN OR HISTORICAL COMMITTEE CHAIR

Name Eric Shaw - see Vice President # 5013538
Address
Business Name
Business#
FAX#
EMAIL

CHAPTER TECHNOLOGY TRANSFER COMMITTEE CHAIR

Name Eric Shaw - see Vice President # 5013538
Address
Business Name
Business#
FAX#
EMAIL

RESEARCH PROMOTION COMMITTEE CHAIR

Name Scott Turner # 5093061
Address 96 Mcg Drive
London, ON
N6E 3T7 Canada
Business Name SomersEnvironmental Products
Business# 519-681-1977
FAX# 519-686-9324
EMAIL scott@somersenv.com

NEWSLETTER EDITOR

Name Tom Pollard # 5071430
Address PO Box 22089
London, Ont
N6C 5Y3 Canada
Business Name Pollard Engineering Limited
Business# (519) 685-2570
FAX# (519) 685-2570
EMAIL tpollard@execulink.com

HOMEPAGE EDITOR (WEBMASTER)

Name Tom Pollard - refer to newsletter editor # 5071430
Address
Business Name
Business#

MANUAL FOR CHAPTER OPERATIONS

FAX# _____
EMAIL _____

Golf Tournament (OPTIONAL)

Name Hugh Palser # 2030896
Address PO Box 28136
London Ont
N6H 5R2 Canada
Business Name Palser Enterprises Ltd
Business# 519-471-9382
FAX# 519-471-1049
EMAIL hpalser@palsenet.com

_____ (OPTIONAL)

Name _____ # _____
Address _____

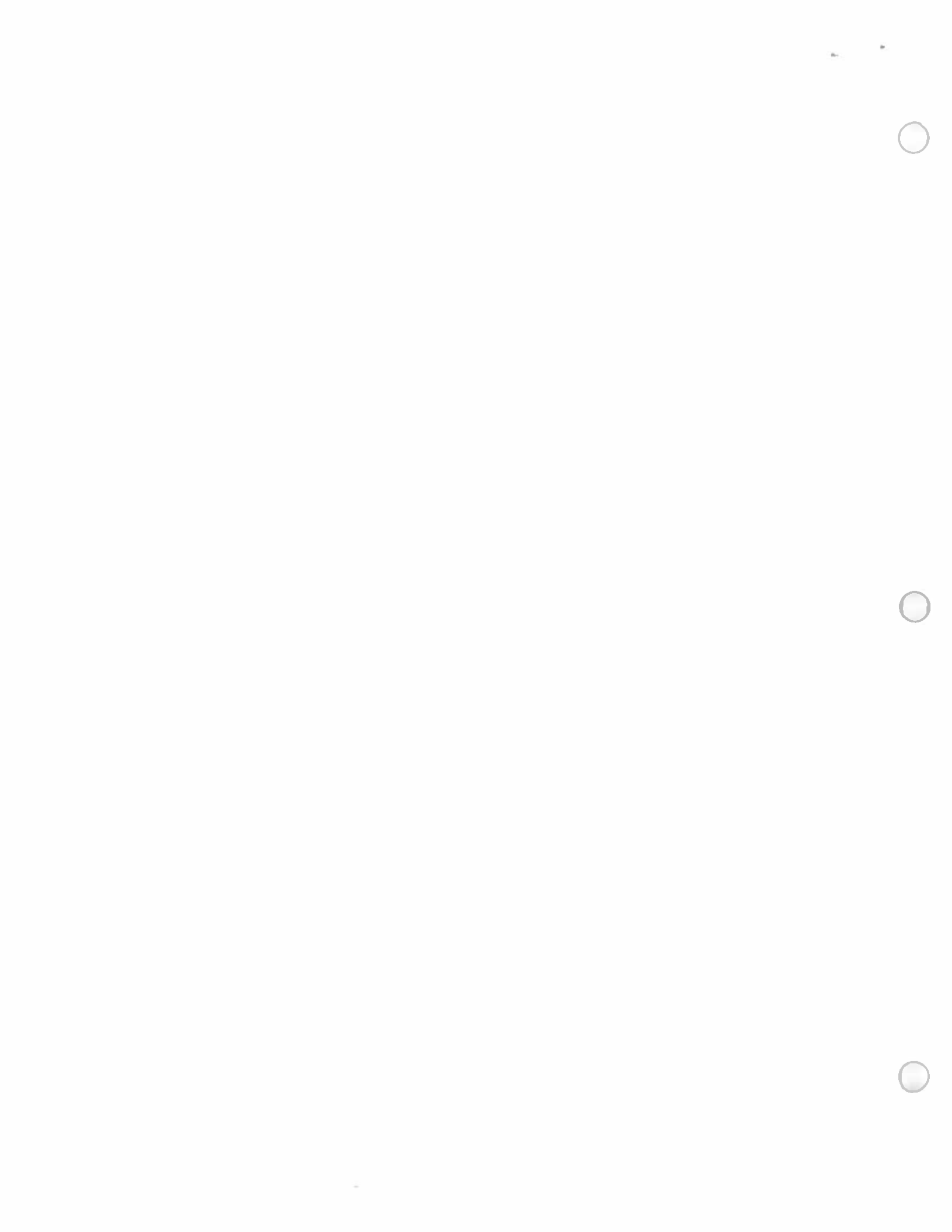
Business Name _____
Business# _____
FAX# _____
EMAIL _____



FirstName	LastName	CompanyName	CityStateCode	MemberType
Wasim	Abouzeenni		Woodstock, ON N4S 5T1	Student
Ehab	Abu-Ramadan		London, Ontario N6C 5A8	Member
Zeinab	Ahmed		London, ON N5Z 4T2	Student
Fawaz	Almassri	NA Engineering	London, ON N6H 4Y9	Member
M	Altahan	The University of Western Ontario	London, ON N6B 3P6	Associate
Joe	Arbique	University of Western Ontario	London, ON N6A 5B9	Associate
Terry	Arcese	HTS Engineering Ltd	Kitchener, ON N2P 1C5	Member
Robert	Archer	Abram Sheet Metal	Sarnia, ON N7T 7H2	Associate
Kelly	Armstrong		London, ON N6C 3Y3	Associate
Charles	Avellino	Nova Chemicals (Canada) Ltd	Sarnia, ON N7T 8C7	Associate
John	Azzopardi	Baymar Supply Ltd	Windsor, ON N8T 2W8	Associate
Shouri	Bagchi		London, ON N6G 2J9	Student
David	Barker	Ontario Lottery & Gaming Corporation	St Thomas, ON N5P 3T2	Associate
Arthur	Barran		London, ON N6H 5N4	Member
Gino	Battel	Cimco Refrigeration	London, Ontario N5X 4L4	Member
Corinna	Bellomo		London, ON N6A 3L9	Student
John	Bisset	Chorley & Bisset Ltd	London, ON N6H 5N4	Member
Jonathan	Brunskill		London, N6K 1S8	Student
Douglas	Calder	Fanshawe College	London, ON N5V 1W2	Associate
Stephen	Campbell	Honeywell	St. Thomas, ON N5P 2K3	Member
Gerald	Catt	Catt Engineering Svcs	Vanessa, ON N0E 1V0	Member
Rocco	Cerminara	Corp Of The City Of London		Associate
Mounia	Chadi		London, ON N6E 3L5	Student
Joseph	Claessens	Smylie & Crow Associates Inc	London, ON N6C 3N7	Member
Norman	Clarke	Trane Sales Agency-London	London, ON N5V 4L2	Member
James	Cooper		London, ON	Member
John	Csoborko	Trane Sales Agency		Associate
Ian	Daniels		Oshawa, ON L1H 6L7	Student
Thomas	Darling		London, ON N6K 1K4	Associate
Robert	Davidson	Black & McDonald Ltd	St Thomas, ON N5R 2J3	Member
Dennis	Dawe	Chorley & Bisset Ltd	London, ON N6G 1L7	Member
Nandakjshore	Deva		Windsor, N9E 4V8	Student
Thomas	Drennan	Drennan Refrig Inc	London, ON N5V 3E7	Associate
Robert	Durk	Durell Control Systems Inc	London, ON N6L 1A8	Member
Joe	Edmiston	Chorley & Bisset	London, ON N6B 3R4	Associate
Scott	Edmunds	Union Gas Limited	London, ON, N6A 4P1	Member
Kim	Ellis	Engineered Air	London, ON N6E 3T6	Associate
Esam Eldin	Elsarrag	Hoare Lea Consulting Engineers	Poole, BH12 1TP	Member
Michael	Fagan			Member
Mehdi	Farrokhnejad		London, ON N6G 2X9	Student
Gerry	Fitzsimmons	Cimco Refrigeration	Markham, ON L3R 5C4	Member
Steve	Flax	Vanderwesten & Rutherford Associates Mech Eng	London, Ontario N6H 5W7	Member
Kirk	Flowers	Ray-Tec Radiant Heaters Ltd	London, ON N6K 3C5	Member
Mitchell	Gascoyne	Trane London	London, ON N5V 4L2	Associate
Stephen	Gillis	Engineered Air	London, ON N6K 1M1	Associate
Stephen	Gillis	3M Canada Co	London, ON N5V 4M9	Associate
Karl	Gilroy	E H Price Ltd	London, ON N5V 3K4	Associate
Owen	Glendon	Chorley & Bisset Ltd	London, ON N6B 3R4	Member
Stephen	Glover	Johnson Controls Ltd	Port Stanley, ON N5L 1J9	Member
Michael	Goetz	G2G Technology Inc	Thunder Bay, ON P7B 1R8	Associate
Peter	Golem	Chorley & Bisset Ltd	London, ON N6B 3R4	Member
Dave	Goyette	Besterd Mechanical	London, ON N5W 3R1	Associate
Jeffrey	Goyette	Technicair Ltd	London, ON N5W 5L1	Associate
Ronald	Granger	Chorley & Bisset Ltd	Ingersoll, ON N5C 3N3	Associate
Paul	Gray		London, ON N5Y 2B3	Member
Joseph	Gregorio		London, N6E 1S4	Associate
Peter	Grinbergs	Nutech Energy Systems Inc	London, ON N5W 4C8	Associate

Kevin	Groen		London, ON N6A 2M1	Student
Michael	Gubesch	Callidus Engineering	London, ON N5X 2G1	Member
Matthew	Hackshaw		London, Ontario N6G 1J7	Student
Sidney	Hall	Callidus Engineering	London, ON N6H 5L6	Member
Richard	Hammond	Cornerstone Architecture	London, ON N6A 3Y5	Associate
Scott	Harris	Johnson Controls L P	London, ON N6E 1R1	Member
Pakeeza	Hateez		London, N6H 1K5	Student
Curtis	Henderson		London, ON N6J 3S1	Student
Terrence	Hill	Tartan Mechanical Contractors Inc	Thamesford, ON N0M 2M0	Associate
Gordon	Hird	Integrated Engineering	London, Ontario N0L 1E0	Member
Vaclav	Honsa		London,	Student
James	Ironside	Ironross Inc	Kitchener, ON N2M 1N6	Member
Stephen	Johnson	Westminster Electrical Ltd	St Thomas, ON N5P 1G9	Associate
Brian	Jutzi	D H Jutzi Ltd	Stratford, ON N5A 6T1	Member
Jonathon	Kobal		London, ON N6E 2K2	Student
Vlacheslav	Korotchenko	Freeze Co Systems Ltd	Mississauga, ON L4W 5P7	Associate
Jamie	Kruspel	Direct Energy Business Svcs	London, ON N6K 2N3	Associate
Edward	Lainsbury	E H Price Ltd	London, ON N5V 3K4	Member
Ted	Lange	Culliton Bros Ltd	Stratford, ON N5A 6W3	Associate
Mary	Latremouille	Callidus Engineering	St Thomas, ON N5P 3B3	Associate
R	Lavender	RJL Professional Svcs	London, ON N6K 3S3	Member
Joe	Legue	Erie Sheet Metal Inc	Dorchester, ON N0L 1G4	Associate
Dennis	Le-May	Univ Of Western Ontario Phys Plt & Capita	London, ON N5X 3H4	Member
Renshan	Liu	Vanderwesten & Rutherford Association	North York, ON M3C 2B4	Member
Zhao	Liu		London, ON N5X 2C1	Student
Bee Choo	Lloyd	Buro Happold	Hertfordshire, HP3 0DY	Member
David	Lynch	Design & Construction	Mississauga, ON L5W 1A2	Member
Tadeusz	Madrzyk	Melex Engineering Ltd	London, ON N6P 1A8	Member
Housyn	Mahmoud		London, ON N6G 2C6	Student
Susan	Mark	Univ Of Western Ontario	London, ON N6A 5B9	Member
Robert	Martinuzzi	University of Calgary	Calgary, AB T2N 1N4	Member
Jack	Maynard	Johnson Controls	London, ON N6E 1R1	Associate
Larry	Mills	Ironross Inc	Samia, ON N7T 5S6	Member
Robert	Moore	Technicair Ltd	London, ON N5W 5L1	Member
Craig	Morasch	Engineered Air	Calgary, AB T2Y 3K7	Associate
Bruce	Morgan	Brescia Univ College	London, ON N6K 3B5	Member
Stewart	Mussolum	Wursmart Companies	London, ON N6C 2P4	Associate
Doug	Nelner	Fahrhall Mechanical	Windsor, ON N9A 4X9	Associate
Imre	Nemeth	Marshall And Murray Inc	London, ON N5W 1B2	Member
Hugh	Palser	Palser Enterprises Ltd	London, ON N6H 5R2	Associate
John	Payne		Camlachie, ON N0N 1E0	Member
Luis	Pereira		London, N6H 3Z5	Student
Andrew	Piatek	Chorley & Bisset Ltd	London, ON N6B 3R4	Member
Robert	Pollard	Pollard Engineering Limited	London, ON N6C 5Y3	Member
George	Qubty	Vanderwesten & Rutherford Associates Inc	London, ON N6K 4W3	Member
Abdelrahman	Ramadah		London, ON N6G 4Y6	Student
Jason	Reid	Munters Inc	Cambridge, N3C 2A9	Associate
Mark	Robinet	ECR International	Wallaceburg, ON N8A 5E5	Member
Kenneth	Robinson	Ken Robinson Refrigeration Inc	TaVistock, ON N0B 2R0	Associate
Brian	Rook		Drumbo, ON N0J 1G0	Associate
William	Rutherford	Vanderwesten & Rutherford Assoc	London, ON N6P 1R2	Member
Ibrahim	Semhat		London, ON N6C 5J2	Student
Eric	Shaw	Baymar Supply Ltd	Strathroy, ON N7G 3H5	Member
David	Simic	Tecsar Engineering Inc	Samia, ON N7T 7T1	Member
David	Slinclair		Toronto, M5V 3A6	Student
Andy	Soan	Soan Mechanical	London, ON N5W 5W4	Associate
Edward	Soan	Soan Mechanical Ltd	London, ON N5W 5W4	Associate
Daryl	Somers	Somers Environmental Products Co	London, ON N6P 1G3	Member

Martin	Stephenson	Integrated Engineering	London, ON N6K 2J9	Member
Brenda	Stonehouse	Univ Of Western Ontario	Denfield, ON N0M 1P0	Member
Gary	Struhar	Honeywell Ltd	Belle River , ON N0R 1A0	Associate
Robert	Tollola	The Walter Fedy Partnership	London, ON N6A 3W8	Member
Brian	Topp	Ingersoll Rand	Kintore, ON N0M 2C0	Member
James	Turner	J A Brownlee Ltd	London, ON N6H 5L7	Associate
Scott	Turner	Somers Enviromental Products	London, ON N6E 3T7	Associate
Derek	Vakaras	Chorley & Bisset Ltd	London, ON N6B 3R4	Member
Michael	Van Wiechen	Airwaso Canada Inc	London, ON N6E 2N5	Member
John	Vitez	Honeywell	London, ON N6J 4M9	Member
Ryan	Welker		London, ON N6G 3W6	Student
Timothy	White	Comstock Canada Ltd	London, ON N5Z 1H5	Associate
Jamie	Whitty	Smylie & Crow Associates	London, ON N6C 3N7	Member
Greg	Wolfe	Cami Automotive Inc	London, ON N5V 4R4	Student
Vincent	Wong		London, ON N5X 3V1	Student
Junliang	Wu		London, ON N6G 3A8	Student
Jing	Yan		London, ON N6A 3Z4	Student
Christopher	Zettler	C J Zettler & Associates Ltd	London, ON N6K 1Y1	Associate
Dong	Zhao		London, ON N5Y 4R6	Student



**ASHRAE LONDON CANADA CHAPTER
BOARD OF GOVERNORS
MEETING MINUTES**

DATE: Sept. 13, 2007

Present: Scott Edmunds, Eric Shaw, Tom Pollard, Scott Turner, Karl Gilroy,

Absent: Jason Vandenberghe, Jack Maynard

Program –

Sept. 24, New Standards For Condensing Gas Boilers SPC 155. Eric has sent Tom P a Bio and Topic for Discussion.

Oct. 22, Gary Sweeny from CTM to speak on Cooling Tower Design & Related Problems.

Nov. 26, Darrel Boyce Speaking on Green Globes.

Mar. 31, Victor Goldschmidt Speaking on Global Warming & Differing Perspectives.

Scott E. or Eric S. to remind date change for Oct. 22 meeting during business session & wrap up. Tom P to flag the Oct.22 date change in the newsletter.

Eric S to confirm RVC & DRC attendance for DL and book rooms to be paid by London Chapter if required.

Eric S talked with Walid about Sept. being Student Night. Eric will call Tom Dyer to invite Fanshawe Students.

The DL for Mar. has made a specific request that he be able to address the students of UWO, noon-hour the day of the meeting. Eric/Walid to book a room & time. Tom and Eric will try to attend, and others are welcome.

Jan. Feb., & April are still open. Looking at a potential tour for April, maybe Toyota, or Water Supply London.

Scott E to try and contact ANSIS & ROI regarding CFD (Karl has CFD backup)

Eric to investigate further topics to try & bring new & old faces out to meetings.

Scott T. to get Scott E. existing phone list(s)

Tom P to list future meeting dates in newsletter.

Theme nights are currently as follows:

- Student Night – Sept. & Mar.
- Membership Night – Oct. & Feb. (?)
- Research Night – Nov. & May.

Decided that there is a need to have the Treasurer & Secretary at the door for sign in at the general meetings. If they cannot be there, it is their

responsibility to find a replacement. Door committee needs to be diligent in deciphering members from guests and meal plan members.

Membership-

Karl to get a member list to Jason V. and Jack M.

Treasurer -

Eric S. & Jason V. to get together and get the "books signed off"
Tom P & Jason V. audited 06/07n books Aug. 22/07 and found them to be acceptable.

Balance Forwarded Aug. 1, 2007 = \$16,127.17

Tom P. to publish some financial summary for 2006/2007 in the newsletter.

Student Activities -

Scholarship for UWO student. Discuss with Jack M. about getting him out to a meeting. Discuss with Walid as well.

Research Promotion-

Budget for 2007/2008 year is \$12,000.00. Last year London collected \$12,308.00
Scott T. requested that Full Circle donations to be received to him by the Oct. BOG or latest Oct. 22 general meeting.

Newsletter-

Tom P would like to have articles for the newsletter by the weekend of the 15th 16th.

New Business -

Engineered Air has not yet paid their Golf Dues from Tournament. Scott E, Eric S., & Scott T to follow up with Phil Bracewell.

Rates for meals at general meetings will remain as follows:

- London Member = \$25.00
- London Meal Plan Member = \$125.00
- Guest = \$35.00
- Student = \$10.00

Eric to negotiate meal costs closer to last year's rate.

Scott T. to send a thank-you letter to Hugh Palser for coordinating the golf tournament.

Meeting adjourned 6:30PM

Next BOG Wed. Oct. 10th 4:30 Union Gas Office.

ASHRAE London Canada Chapter
Board of Governors
Meeting Minutes

Date: Oct 11, 2007

Addended by:	Scott Edmunds	Scott Turner
	Jason Vandenberghe	Jack Maynard
	Karl Gilroy	Tom Pollard
	Jamie Kruspel	

General:

- Reviewed minutes from previous meeting
- Scott Edmunds agreed with the meeting minutes.
- Bank Balance (Oct 11) \$18,408.94.

Program

- Distinguished lecturer has been booked confirmed with society. Includes London/Windsor.
- Future Meeting potential:
 - CFD analysis relating to HVAC systems (Jan or Feb)
 - Refrigeration talk
- Action Item: Program has to be published end of the month.

Membership

- Discussed membership lists and updating. Specifically:
 - Cancelled Memberships: Jim/Larry (Ironross). Bruce morgan (DE)
- Action Item: Forward list to executive to update including:
 - Cross off if no chance of future meeting/activities
 - Asterix (*) if around but uncertain of chance of future activity
 - Leave if active, participating member
- Action Item: Clarify if next week will be a membership promotion night or not. Clarification needs to be made to Tom prior to newsletter release.

Student Activities

- Student night total (5). The following sponsors were nominated within the group:
 - Johnson Controls (1)
 - Union Gas (1)
 - Somers (1)
 - Aquatech (1)
 - E.H. Price (1)
- Action Item: Jack to bring Jamie up to speed on student activities, make introduction to Western (Walid/Patricia)

Research

- Action Item: Scott T need \$100 check from BOG (Scott E, Eric, Jason, Jack). Needs check by October 22nd meeting at latest.

Golf

- Action Item: Scott T to send Hugh Palser a golf thank you
- Action Item: Scott T to chase Engineered Air for two foursomes they have not paid

Newsletter

- Action Item: Newsletter articles by 15th latest

Next meeting wed, Nov 14th, 4:30 union gas office

ASHRAE London Canada Chapter
Board of Governors
Meeting Minutes

Date: Nov 14, 2007

Addended by:	Eric Shaw	Scott Turner
	Jack Maynard	Karl Gilroy
	Tom Pollard	Jamie Kruspel

General:

- Reviewed minutes from previous meeting
- Eric Shaw on behalf of Scott Edmunds agreed with the meeting minutes.
- Action Item: Bank Balance (Nov 14th) TBD (JASON)

Program

- Distinguished lecturer has been booked confirmed with society. Includes London/Windsor. Eric has arranged transportation. He also wants to speak to Western. Eric has set this up with Walid.
- Future Meeting potential:
 - CFD analysis relating – Alan John (FEB)
 - Refrigeration talk – currently pursuing Alan Antcliffe @ Madok (JAN)
 - Toyota Plant – Tour in April, back-up plan Sister's of St. Joseph, Lake Huron Water Supply (Ontario Clean Water)
- Program has to be published based on information to date.

Membership

- Discussed membership lists and updating. Eric's daughter to update the list over Christmas.
- Action Item: Christmas Social to be determined. Discuss active membership at that point in time.

Student Activities

- Action Item: Student night total (5). The following sponsors were nominated within the group \$25 Membership:
 - Johnson Controls (1)
 - Union Gas (1)
 - Somers (1)
 - Aquatech (1)
 - E.H. Price (1)
- Action Item: Scholarship presentation by Jamie next week

Research

- Scott received full circle cheque from all parties.
- Scott recommended a special rate of \$25 member rate for donors who are being recognized.
- Action Item: Scott to send Tom Donor list for newsletter.

Golf

- Action Item: Scott T to send Hugh Palser a golf thank you
- Engineered Air is all paid up

Newsletter

- Action Item: Newsletter articles by November 16th latest

Next meeting wed, Nov 14th, 4:30 union gas office

ASHRAE London Canada Chapter
Board of Governors
Meeting Minutes

Date: January 17, 2008

Addended by: Eric Shaw Scott Turner
 Jack Maynard Karl Gilroy
 Tom Pollard Scott Edmunds

General:

- Reviewed minutes from previous meeting
- Scott Edmunds agreed with the meeting minutes.
- Action Item: Bank Balance (January 17, 2008) TBD (JASON)

Program

- This month meeting Garth to discuss R410A
- Future Meeting potential:
 - January (Student night & History)
 - CFD analysis relating – Alan John (FEB 25th)
 - Plant Tour Order of preference – (March Meeting)
 - Sister's of St. Joseph (eat lunch up there)
 - Toyota (longshot)
 - Huron Water Supply
- Program has to be published based on information to date.

Membership

- Action Item: Scott E to find out more about April 16th Webcast "Integrated Building Design", invite 1-4pm.
- Action Item: Scott E to send letter to non-ASHRAE membership, potential list:
 - Architects (Scott E)
 - LDCA (Jack, Scott to send Jack letter)
- Action Item: Tom to talk to Architect contacts
- Action Item: Jack to reserve JC boardroom (Host 15 max). Fallback is Union Gas office (host 50)
- Action Item: Darryl to do overview of ASHRAE winter meeting (New York)

Student Activities

- Action Item: Student night total (5). The following sponsors were nominated within the group \$25 Membership:
 - Johnson Controls (1)
 - Union Gas (1)
 - Somers (1)
 - Aquatech (1)
 - E.H. Price (1)
- Action Item: Scott E to follow up with Jamie

- Action Item: Walid requested ASHRAE distribution info, possibly the newsletter would suffice (Jamie)

History

- Action Item: Tom to discuss history with membership in January Meeting to discuss new Canadian museum (Tom)

Research

- We did achieve full circle award.
- Action Item: Scott E to do phone campaign in February.

Golf

- Action Item: Scott T to send Hugh Palser a golf thank you

Newsletter

- Action Item: Newsletter articles by January 19th latest

Treasurer

- Action Item: Treasurer to talk to society about sending cheques directly to next year's treasurer (Jack?)

Next meeting wed, Feb 13th, 4:30 Moxies

ASHRAE London Canada Chapter
Board of Governors
Meeting Minutes

Date: Feb 13, 2008

Addended by:	Eric Shaw	Scott Turner
	Jack Maynard	Karl Gilroy
	Tom Pollard	Jason Vandenberghe

General:

- Reviewed minutes from previous meeting
- Eric Shaw agreed with the meeting minutes.
- Action Item: Bank Balance (Feb 13, 2008) TBD (JASON)

Program

- This month meeting Guy from Ansys
 - Action: Bio to be sent to Tom for newsletter
 - Action: Membership Night this month
- Future Meeting notes:
 - March is Victor, distinguished lecturer. Wishes to also talk about the benefit of student groups
 - Site tour (April), aim for Sister's of St. Joseph (eat dinner North end)
 - Action: Eric to talk to Derrick @ Chorley

Membership

- ASHRAE Webcast: Walid has agreed to set it up for Western
 - Action Item: Jamie to get room number, forward to Tom for newsletter
 - Action Item: Tom to forward group a 'letter' which can be for promotion of event
 - Action Item: Jack to use Tom's letter, approach LDCA
- Membership roster is now complete

Student Activities

- 16 student members, all paid and current
- Money sent to Ashrae, students yet to receive cards

History

- Eric indicated he had London AHRAE history files (70s to 1990, 1995 to today)
- Action: Tom indicated he would summarize since inception

Research

- Scott ahead of plan due to 'generous' donation by Johnson Controls, Toronto
- Action: Scott T to ramp up campaign, phone campaign to start in March

Golf

- Hugh has committed again.

Newsletter

- Action Item: Newsletter articles by Friday 15th latest

Next meeting wed, Mar 19th, 4:30 Moxies

POE Access:

to log in to web site

you may need your own access code

and then under secure chapter volunteer activity

login: london pw: wdv116

(note that all in lower case letters)

ASHRAE London Canada Chapter
Board of Governors
Meeting Minutes

Date: Mar 19, 2008

Addended by:	Eric Shaw	Jamie Kruspel
	Jack Maynard	Karl Gilroy
	Tom Pollard	Jason Vandenberghe
	Scott Edmunds	

General:

- Reviewed minutes from previous meeting
- Scott Edmunds agreed with the meeting minutes.
- Bank Balance (April 19, 2008) \$16,325.48

Program

- General feedback on Ansys presentation was bad
- Future Meeting notes:
 - Site tour (April), Sister's of St. Joseph, 5pm
 - John (site contact) will lead the tour.

Membership

- ASHRAE Webcast: April 16th, Spencer Engineering Building (SEB) 3109
 - Action Item: Jamie to get room number, forward to Tom for newsletter
 - Action Item: Scott E. to forward group a 'letter' which can be for promotion of event
 - Action Item: Jack to use Scott's letter, approach LDCA

Student Activities

- Walid/Jamie: Set to go to Atlanta
- Action: Jamie to send names of student members to Tom for newsletter
- Action: Jamie to present spring scholarship

History

- Eric indicated he had London AHRAE history files (70s to 1990, 1995 to today)
- Action: Tom indicated he would summarize since inception

Research

- Scott ahead of plan due to 'generous' donation by Johnson Controls, Toronto
- Action: Scott T to ramp up campaign, phone campaign to start in April
- Action: Scott T due to Canadian dollar rise ASHRAE has asked London to increase research contributions by 40% over plan. BOG has agreed to commit in the absence of the research chair.

Golf

- Hugh has committed again.
- Action: Are we running mulligan again for Research?
- Action: Are we running 17th Hole Hit the green for Research? Trane?
- Confirm with Hugh following April 16th webcast

Nominations:

- Dennis Dawe has committed to heading nominations committee
- Specific areas to be filled:
 - Chapter Executives:
 - President: Eric
 - VP&Program: Jason
 - Treasurer: Jack
 - Secretary: Karl?
 - Membership: ?
 - Student: Jamie?
 - Research: Scott Edmunds
 - History: Eric
 - Newsletter: Tom

ASHRAE POE POINTS:

- Action: Points to be in prior to next BOG

Newsletter

- Action Item: Newsletter articles by Monday 28th latest

Next meeting wed, April 16th at Witt's End (Richmond and Fanshawe) following telecast.

POE Access:

to log in to web site

you may need your own access code

and then under secure chapter volunteer activity

login: london pw: wdv116

(note that all in lower case letters)

ASHRAE London Canada Chapter
Board of Governors
Meeting Minutes

Date: June 2, 2008

Addended by: Eric Shaw Jamie Kruspel
 Jack Maynard Tom Pollard
 Jason Vandenberghe Scott Edmunds

Reviewed nominations:

- Confirmed the following nominations for next year:
 - Chapter Executives:
 - President: Eric Shaw
 - VP&Program: Jason Vandenberghe
 - Treasurer: Jack Maynard
 - Secretary: Jamie Kruspel
 - Membership: Karl Gilroy
 - Student: Ibrahim Semhat (assisted by Jamie + Walid)
 - Research: Scott Edmunds
 - History: Eric Shaw
 - Newsletter: Tom Pollard

ASHRAE POE POINTS:

- Action: London is above minimum (400). Still require additional POE points to be updated by all.

POE Access:

to log in to web site

you may need your own access code

and then under secure chapter volunteer activity

login: london pw: wdv116

(note that all in lower case letters)

PLANNING MEETING:

- Eric reviewed planning meeting.
- Discussed the need for DRC nomination for Region II
 - Wilf's last year
 - Possibly nominate Darryl
- Discussed national workshop, desire representatives from Region II to go

CRC MEETING: Montreal August 22/23, Hotel Hyatt downtown (\$179/night)

- Friday to Sunday with society items on Friday, Saturday being chair breakouts
- Spousal travel discounts available.
- Action Item: Review outstanding society items with BOG
 - Vote to increase region dues \$6 to \$9

- Chapter Dues to increase \$45 to \$50/yr
- Action Item: Require a list of attendees to confirm.
 - Mandatory: Membership, President, VP, Research
 - Others: Student, History
- Action Item: Past Presidents Report
 - Eric/Scott E. to include slides of activities in London chapter

Research

- Scott to supply list of potential donors
- Action: Phone campaign to catch up to \$12000 target

Golf

- Hugh has requested a formal policy/guideline be made for sponsorship
- Action: Scott E to approach other chapters to investigate what they do for sponsors
- Action: by fall, complete a policy, forward to Hugh.

Next meeting wed, June 11th at Moxey's



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LONDON CANADA CHAPTER #116

<http://LondonCanada.AshraeChapters.org>

Mon Sept 29/2008

Board of Governors

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eshaw@baymarsupply.com

Vice President & Program

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Scott Edmunds
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sedmunds@uniongas.com

Membership

Karl Gilroy
ph: 519-451-5100
kgilroy@price-hvac.com

Student Activities

Ibrahim Simhat
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Historian

Scott Turner
ph: 519-681-1977
scott@somersep.com

Golf Tournament

Hugh Palser
ph: 519-471-9382
hpalser@palserent.com

Newsletter

Tom Pollard
ph: 519-685-2570
tpollard@execulink.com

TOPIC:

**FAN VIBRATION ANALYSIS
and BALANCING**

DAVID HILLIS
Green-Hill Mechanical Services Ltd.
and
Baymar Supply Ltd

Meeting - Mon Sept 29/2008

London Chapter Members = \$30.00
Meal Plan Rate = \$150.00
Students = \$10.00 Others = \$40.00

THE LAMPLIGHTER INN, 591 Wellington Rd., London
CASH BAR ALL YOU CAN EAT BUFFET
5:15-Social 6:00-Dinner 7:15-Program





President's Message

It is hard to believe that summer has come and gone, and now fall has arrived. I hope that everyone had a good, productive summer, and as we move forward - that 2008 is remembered by all as a positive year.

Our annual golf tournament at Forest City National in June of 2008 was a tremendous success, and was attended by a record 156 golfers – a great time was had by all. We all need to take a moment and thank Hugh Palser for outdoing himself once again in organizing this excellent event.

This past August, the ASHRAE Montreal Chapter hosted the Region II CRC (Chapters Regional Conference) at the Hyatt Regency Hotel in downtown Montreal. The CRC was well attended by the nine region chapters, including London's chapter officers. The workshops attended by our members help by providing ideas and guidance for developing our individual and collective skills in the interest of furthering ASHRAE's mission and ideals within our industry. The London Chapter came just short of achieving its personal financial target for 2007/2008 in the Research Promotion area, but assisted the ASHRAE Region II in meeting their target, which in turn helped ASHRAE Society in meeting and exceeding its Research Promotion target of \$2,000,000.00 for the 2007/2008 fiscal year.

This is a very significant event for ASHRAE, as in previous years, they have failed to make that target. ASHRAE Society, Region II, and our Chapter wishes to thank everyone for their contributions and assistance with this process that every year brings back to Canada more than what we contribute in research money and grants to assist Canadians in our industry. For example, in this past year, a UWO Mechanical Engineering Student – Brian Coulter received the ASHRAE Memorial Scholarship Award from Society. Also, during this past summer our Student Chair, along with a member of the UWO Engineering Faculty attended a Student Branch Workshop presented by ASHRAE Society in Atlanta, Georgia. This year we hope as a result to welcome the newly formed "UWO – ASHRAE London Chapter Student Branch" into our local chapter. More to come on this great news event.


This month (September 29th) at our London Chapter meeting, we will be hearing and seeing a presentation on Vibration Analysis, including a couple of very interesting demonstrations using electronic vibration test equipment, and will also learn about the causes of noise and vibration transmission through different materials. The presentation will be given By David Hillis from Windsor.

We look forward to seeing you in attendance at our monthly meetings, and look forward to our members participating, and even volunteering to help with the various local chapter functions that take place during the year. We welcome your suggestions and comments – please feel free to contact myself, or any of the London Chapter Officers listed on this newsletter – we appreciate your input.

See you on the 29th of September.

Eric Shaw
ASHRAE London Canada Chapter President

Pete Edmiston
Branch Manager



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Speaker Bio

DAVID HILLIS:

Born and Raised in Windsor, Ontario he started work early in the family business: GREEN-HILL MECHANICAL SERVICES LIMITED - which was the Warranty and Services Company set up to accommodate the AMERICAN STANDARD / CANADIAN SIROCCO Fan Lines after they closed in 1968. David's father, Mr. Thomas Hillis was SIROCCO's SERVICE MANAGER. Mr. Hillis was exposed to fan work at age 12 from light work in the plant. He learned Vibration Analysis and Dynamic Balancing at age 14 at IRD. David worked part-time throughout his school years and full-time afterward.

Mr Hillis started his first business, AIR MAINTENANCE COMPANY LIMITED in 1984 which performed Vibration Analysis, Balancing & Fan Diagnostics. He then bought GREEN-HILL MECHANICAL SERVICES LTD which refurbished and serviced fans throughout North America.

In 1994, he bought VALLEY PROCESS SPECIALTIES LTD. a light engineering house , in Sarnia. In 2005 David started VALLEYGREEN TECHNICAL SPECIALTIES LTD. to accommodate fan services without the shop facility. Dave works closely with BAYMAR SUPPLY LTD., as their Mechanical Draft Fan Sales Specialist.

Dave was in the CANADIAN NAVAL RESERVE, at HMCS HUNTER, in Windsor for 18 years. He has sat on several Community Boards. He just finished CHAIR of the WINDSOR YMCA and a ROTARY CLUB PRESIDENCY. Most recent, he has taken up a Director position with the SOCIETY FOR MAINTENANCE & REPAIR PROFESSIONALS - DETROIT CHAPTER. He still sits boards of the YMCA.



Daryl Somers, CET

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Upcoming Meetings & Events

Mon Oct 27, 2008

Variable Refrigerant Flow

ASHRAE LONDON

2007/08 Financial Summary

Starting Balance (Aug 1/2007) \$ 16,127.17

Income

Meal Plans & Door Fees	\$ 3,910.00
Golf Tournament Revenues	\$23,900.00
ASHRAE Membership Dues	\$ 1,976.00
Misc	\$ 1,200.00
	<u>\$ 30,986.00</u>

Expenses

Monthly Meetings	\$ 7,218.13
CRC	\$ 2,426.81
Golf Tournament	\$ 15,865.05
Misc	\$ 3,736.18
	<u>\$ (29,246.17)</u>

Ending Balance (June 31/2008) \$ 17,867.00

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2008/2009 FISCAL OUTLOOK

Another year of ASHRAE activities before us & the London ASHRAE Chapter is starting with a strong balance sheet to support our chapter activities.

Expected cost increases across all activities have put pressure on our existing financial model to maintain a balanced budget. To offset the cost increases the following changes have been accepted by the ASHRAE London board of governors for implementation in 2008/2009.

- ASHRAE London Golf Tournament will offer members and suppliers the opportunity to sponsor golf holes
- The ASHRAE monthly dinner rates will be raised:
 - Meal Plan will be \$150
 - Chapter Member meals will be \$30
 - Guest meals will be \$40

The ASHRAE London Chapter will continue to support community and school events that promote ASHRAE awareness including:

- ASHRAE Award
- ASHRAE Research
- ASHRAE Student Memberships for students wishing to join

The ASHRAE London Chapter will support two student nights to promote ASHRAE awareness to young Engineers & Technologists. It is expected these student nights will be cash neutral due to the generous support of our members who sponsor students. Please feel free to contact me if you or your organization wishes to sponsor a student for the upcoming 2008.2009.

I am looking forward to another great year.

Jack Maynard
London Chapter Treasurer

ASHRAE LONDON BUDGET 2008-2009

BANK BALANCE, August 25th 2008		\$ 17,867.00
Cash Inflows		
ASHRAE Monthly Meeting Revenues	\$ 5,630.00	
Golf Tournament Revenues	\$ 26,100.00	
ASHRAE Membership Chapter Dues	\$ 3,000.00	
Promotional Advertisements	\$ 1,200.00	
		\$ 35,930.00
Cash Outflows		
ASHRAE & Community Involvement		
ASHRAE Award, University of Western Ontario	\$ 1,000.00	
ASHRAE Research, Chapter Donation	\$ 1,000.00	
ASHRAE Student Sponsorship	\$ 400.00	
ASHRAE & Community Involvement Total	\$ 2,400.00	
ASHRAE Monthly Meeting Expense	\$ 7,607.00	
CRC & ASHRAE Regional Expense	\$ 6,831.00	
Golf Tournament Expense	\$ 18,517.00	
ASHRAE Board of Government Functions	\$ 300.00	
Miscellaneous ASHRAE Business Expense	\$ 500.00	
Total Expenses		\$ (36,155.00)
Budgeted Bank Balance, August 25th 2009		\$ 17,642.00

**Data Center Case Studies Focus of ASHRAE Book**

ATLANTA – Data centers are becoming increasingly more difficult to adequately cool, due to increased datacom performance that results in increased heat dissipation.

Even though performance has increased at a more rapid rate than power, the power required and the resulting heat dissipated by the datacom equipment is putting a strain on data centers.

Case studies and guidance on cooling data centers is available in a new book from ASHRAE, *High Density Data Centers – Case Studies and Best Practices*.

"In the struggle to improve the thermal management characteristics of data centers, it is important to assess today's data center designs," Roger Schmidt said. "This book provides case studies of high density data centers and a range of ventilation schemes that demonstrate how loads can be cooled using a number of different approaches."

Schmidt is a member of ASHRAE's technical committee on mission control facilities, technology spaces and electronic equipment, which wrote the book.

Case studies featured in the book include the National Center for Environmental Prediction, the IBM Test Facility in Poughkeepsie, N.Y., the San Diego Supercomputer Center, the Lawrence Livermore National Lab Data Center, the NYC Financial Services Data Center, the Georgia Institute of Technology Data Center, the Cedars-Sinai Medical Center Data Center and the Hewlett-Packard Richardson Datacool™ Data Center.

The book is part of the ASHRAE Datacom Series, developed to provide a more comprehensive treatment of datacom cooling and related subjects. Other books in the series are ASHRAE's *Design Considerations for Datacom Equipment Centers*, *Best Practices for Datacom Facility Energy Efficiency*, *Thermal Guidelines for Data Processing Environments*, *Liquid Cooling Guidelines for Datacom Equipment Centers*, *Datacom Equipment Power Trends and Cooling Applications*, and *Structural and Vibration Guidelines for Datacom Equipment Centers*.

The cost of *High Density Data Centers – Case Studies and Best Practices* is \$54 (ASHRAE members, \$43). To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit at www.ashrae.org/bookstore.

New Publication Provides Energy Efficiency Guidance for Warehouses

ATLANTA – The latest publication in the *Advanced Energy Design Guide* series will help guide the construction of warehouses using off-the-shelf technology that can cut energy use 30 percent or more annually.

The *Advanced Energy Design Guide for Small Warehouses and Self-Storage Buildings*, published by the American Society of Heating, Refrigerating and Air-Conditioning Engineers, gives guidance to architects, engineers and others on building design teams on how to use best design practices to create energy-saving warehouses. Written in partnership with The American Institute of Architects, the Illuminating Engineering Society of North America, the U.S. Green Building Council, and the U.S. Department of Energy, the book is available for free in electronic form at www.ashrae.org/freeaedg. Hard copies are available for purchase in the ASHRAE Bookstore through the same Web page. The Metal Buildings Manufacturers Association (MBMA) contributed to the book's authorship.

The book, intended for use by contractors, designers and owners of small warehouse buildings, covers an integrated design process for delivering energy efficient warehouses as well as sets of prescriptive requirements for efficient warehouses in each climate zone. Case studies of exemplary warehouse designs are also provided, as well as detailed "how-to" design guidance to help guide construction teams. Recommendations cover the subject areas of building envelope, lighting and daylighting, HVAC and service water heating.

The Guide covers warehouses up to 50,000 square feet and self-storage buildings that use unitary heating and air-conditioning equipment. Warehouse and storage buildings represent a significant amount of commercial floorspace in the United States and account for nearly 8 percent of energy use of in commercial buildings.

"The Guide provides a clear, straightforward prescriptive path to meeting the 30% target savings," says Ron Jamagin, chair of the committee that wrote the publication. "Recommendations are easy to apply, allowing contractors, consulting engineers, architects, and designers to easily achieve advanced levels of energy savings without having to resort to detailed calculations or analyses."

The cost of the print version of *Advanced Energy Design Guide for Warehouses and Self-Storage Buildings* is \$59 (\$47 members). To download the free electronic version, please visit www.ashrae.org/freeaedg.

To order a print copy of the book, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit at www.ashrae.org/bookstore.

**ASHRAE President to Provide Testimony on Green Buildings to U.S. House Committee**

ATLANTA – ASHRAE's work in providing advanced energy guidance will be highlighted in upcoming Congressional testimony.

ASHRAE President Kent Peterson, P.E., is slated to speak Wednesday, May 14, at a hearing, Building Green, Saving Green: Constructing Sustainable and Energy-Efficient Buildings, before the Select Committee on Energy Independence and Global Warming of the U.S. House of Representatives.

"As Congress examines all sources and causes of global warming emissions, it must consider how the buildings we work and live in can contribute to reduce the impact of climate change," Rep. Edward Markey (Mass.), chair of the committee, said. "ASHRAE's standards offer a foundation for energy-efficient buildings, and the Committee is interested in how building codes can be used to increase the number of green buildings throughout the nation."

Peterson will talk about ASHRAE's role in writing standards for adoption into building codes and its work in developing guidance that goes beyond minimum requirements in building codes.

"Today's buildings mortgage our energy and environmental future," Peterson said. "In the past, Standard 90.1 and other guidance from ASHRAE focused on minimum requirements to save energy. Recognizing that we must do more, ASHRAE is looking ahead to producing advanced energy design guidance, with the goal of net-zero energy buildings. We welcome the opportunity to stress the need for a more energy efficient future before the House Committee."

Standard 161-2007 Published - ASHRAE Publishes Nation's First Airplane Cabin Air Quality Standard

ATLANTA - Proper air quality is essential for general health and well-being in indoor spaces. Recognizing this, most people will take steps to address air quality in their homes and workplaces, but what about when on board an airplane when passengers have no control in a very high-density environment?

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) addresses air cabin air quality in its new Standard 161-2007, Air Quality Within Commercial Aircraft. The standard, which covers issues such as temperature, cabin pressure, air contaminants and ventilation rates, can be voluntarily adopted by individual airlines or the Federal Aviation Administration (FAA), or advocated for by airline passenger and employee groups.

"Compliance with this standard will go a long way toward ensuring good air quality for passengers and crews," says Byron Jones, chair of the committee that wrote the standard. "Aircraft passengers and crew make up a wide cross section of the general population, ranging from the very young to the very old, from the healthy to infirm. And unlike many other indoor environments, occupants do not have the ability to remove themselves from the environment, which is at a lower pressure and relative humidity than that found in many other environments. Standard 161 will help create a healthier, more enjoyable ride for the great variety of passengers on board."

The standard also addresses chemical, physical and biological contaminants that could affect air quality as well. Methods of testing are provided for ensuring compliance with the standard's requirements.

Standard 161 applies to commercial passenger air-carrier aircraft carrying 20 or more passengers. It is intended to apply to all phases of flight operations and to ground operations when the aircraft is occupied by passengers or crew members.

The cost of Standard 161-2007, Air Quality Within Commercial Aircraft, is \$54 (\$43 members). To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide); fax 404-321-5478; or visit www.ashrae.org/bookstore.

Changes Proposed for ASHRAE Standards, Guidelines

ATLANTA – ASHRAE is currently accepting public input on more than 35 proposed addenda to standards as well as a proposal to withdraw Standard 52.1.

Addendum to various standards, including 15 (refrigerate safety), 34 (classification of refrigerants), 55 (thermal comfort), 90.1 (energy efficiency), 62.1 (ventilation), 62.2 (residential ventilation), and 135 (BACnet) are open for review, as are seven standards and one guideline. Complete information can be found at www.ashrae.org/publicreviews.

Among them is the proposed withdrawal of ASHRAE Standard 52.1-1992, Gravimetric and Dust-Spot Procedures for Testing Air-Cleaning Devices Used in General Ventilation for Removing Particulate Matter.

The most important features of this standard, dust-holding capacity and arrestance, have been incorporated into Standard 52.2-2008, Method of Testing General Ventilation Air Cleaning Devices for Removal Efficiency by Particle Size. The only unique features remaining in Standard 52.1 are the dust-spot efficiency tests – now replaced particle-size efficiency tests in 52.2 – and a renewable filter test not used by the industry for decades, according to Monroe Britt, committee chair.

Among the proposed addenda to Standard 90.1 is addendum ap, which would modify the requirements for demand control ventilation; adding the demand controlled ventilation requirements to the simplified approach in order to keep the stringency of this path the same as the mandatory plus prescriptive path of compliance. Also proposed is a change to addendum af to modify energy savings requirements to recognized varied piping material pressure drops.

Six proposed addenda to Standard 62.1 are open for comment, including a proposal regarding outdoor air cleaning. Addendum 62.1c adds significant air cleaning requirements in many locations within the United States. Regarding particulate matter 2.5 micrometers and smaller, for buildings in those U.S. locations established as non-attainment for PM2.5 by the U.S. Environmental Protection Agency, 62.1c would require that the ventilation system include particle filters rated at least MERV 11 (installed between the outdoor air intake and the occupied zone). Regarding ozone air cleaning, the proposed addendum would require that the ventilation system include ozone air cleaners rated for at least 40% ozone removal efficiency.



AMERICAN SOCIETY OF HEATING,
REFRIGERATION AND AIR CONDITIONING
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LONDON CANADA CHAPTER #116

<http://LondonCanada.AshraeChapters.org>

Mon Oct 27/2008

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Oct-08



President's Message

Winter is fast approaching, and our thoughts will now turn to heating systems design more and more.

With the cost of fossil fuels rising on a weekly basis, we feel pressured to find alternative sources of heating and energy to make the quality of life better, and not so expensive. ASHRAE has a focus on sustainability, and "Green Building Designs".

This month we have arranged to have Simon Simmons from Total Concept Solutions (an engineering firm in the UK) come to do a presentation on Geothermal System Design, with a special focus on Geothermal Variable Refrigerant Flow Systems. Simon has had several years experience in industrial and commercial systems design, and has worked on several very large geothermal systems projects in the UK and other countries.

The Property Management Expo and Conference is coming to Toronto this December 3rd to the 5th, and we have complementary passes that are available to anyone that is interested in attending. See me or call me for more information.


Gordon V. R. Holness (ASHRAE Society President-Elect) will be our Distinguished Lecturer at the November 24th meeting – speaking on "Energy Efficiency in Existing Buildings - Our Greatest Opportunity for a Sustainable Future".

Your London Chapter of ASHRAE Board of Governors welcomes your input and suggestions for topics of interest that you would like to see presented at upcoming meetings. Feel free to speak to anyone on the chapter board to share your thoughts with us.

We look forward to seeing you at the meeting next Monday night.

Eric Shaw
ASHRAE London Canada Chapter President

Pete Edmiston
Branch Manager



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- Over eight years experience in project and contract management of multi use and multi serviced environments including industrial , commercial , retail and leisure industries with budget cost control of £100M +
- Experienced European quality assurance manager with a large multinational blue chip heating and cooling equipment manufacturer.
- Extensive experience in preparing company and client cost control and project estimate assessments.
- Technical design engineering manager for high specification military cooling equipment manufacturer
- Member Of The Chartered Institute Of Building Services Engineers (CIBSE)
- Representative and involvement with Eurovent , BISRA , Central Government Carbon Emissions and Renewable Energies and The Carbon Trust.
- Managed and executed design and installation of many prestigious projects such as Bank Of England , AWE Aldermaston , Euro Disney , Coke Cola HQ , Worthing Hospital , Northern Telecom , British Telecom HQs , Alders , Debenhams , Sainsburys and John Lewis stores

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Upcoming Meetings & Events

Mon Nov 24/2008

Energy Efficiency in Existing Buildings
our greatest opportunity for a Sustainable Future
Gordon Holness P.E.
Grosse Pointe Shores, Mich
Fellow/Life Member ASHRAE
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Mon Jan 26/2008 Membership Night

Revisions to B149 and Venting
Don McInroy
Industrial Sales & Product Manager
Security Chimneys International

Mon Feb 23/2009 Student Night

Controls
Technology Shifts and ASHRAE Standards
Joseph Klotz
Product Sales Manager for Canada
Johnson Controls

Mon Mar 30/2009 Tour Night

Tour - Toyota

Mon Apr 27/2009 Membership Night

CIPH and the Future of Hydronics In Canada
John Goshulak P.Eng.
Vice President, Sales and Marketing
Weil-McLain Canada

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Sustainable Urban Design the Focus of ASHRAE Winter Conference '09 in Chicago

ATLANTA – At the 2009 ASHRAE Winter Conference in Chicago, you can be greeted at the Tech program not once but twice, courtesy of this year's extended series of sessions at McCormick Place on Wed., Jan. 28. Although the conference's technical program begins Jan. 25 at the Palmer House Hilton, the "Wednesday Welcome" event at the AHR Expo location offers ASHRAE members a chance to attend a kick-off morning reception and receive critical technical information at the educational sessions, with access to the show floor to see the latest in HVAC&R offerings.

ASHRAE's free public session also focuses on Sustainability in the Urban Development, sharing how the industry is building on its efforts to increase energy efficiency and indoor environmental quality of buildings by furthering the sustainability of entire communities. It is held at 3 p.m. Jan. 26 at McCormick Place.

The ASHRAE Winter Conference runs Jan. 24-28, 2009, and the AHR Expo takes place Jan. 26-28. For more information on the ASHRAE Conference, please visit

www.ashrae.org/chicago

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Jan. 26-28

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**Market Transformation Taking Place with Advanced Energy Design Guide**

ATLANTA – Nine million tons of carbon dioxide. \$600 million in energy costs.

That's the potential savings represented by 100,000 copies in the Advanced Energy Design Guide series now in circulation. More than 88,000 of the publications have been obtained via free download since January.

The series includes publications on small retail and small office buildings, K-12 school buildings, and warehouses and self-storage units. The books provide guidance on how to achieve 30 percent energy savings over building code minimum based on ANSI/ASHRAE/IESNA Standard 90.1-1999.

Calculations show that if every guide downloaded resulted in a single building designed to save 30 percent beyond code minimum, the estimated energy and carbon savings would be 52 trillion btus and 9 million tons of carbon dioxide. With an average cost of electricity of 5 cents per kwh and gas at \$7 per mmbtu, the estimated cost of energy savings is over \$600 million. The guides are developed by ASHRAE, the American Institute of Architects, the Illuminating Engineering Society of North America and the U.S. Green Building Council, with support from the U.S. Department of Energy. The downloads are available at www.ashrae.org/freedaedg.

"ASHRAE is committed to energy optimization and producing guidance that will help move the building industry toward market-viable net-zero energy and carbon neutral buildings," ASHRAE President Kent Peterson, P.E., said. "The call for these high performing buildings is transforming our industry, and the guidance in the Advanced Energy Design Guide series is useable technology guidance to help owners, architects and engineers in accomplishing high-performing buildings."

"This is proof positive that there are substantial economic benefits to green building strategies," said AIA President Marshall E. Purnell, FAIA. "Hopefully this will help convince skeptics of the value and payback of green building design and that practitioners will take advantage of this excellent resource so that we can move closer to reaching our shared goal of carbon neutral buildings by 2030."

"IES is pleased to part of the team developing these important guides, whose success demonstrates that collectively the collaborating organizations are raising awareness about how to achieve energy savings and developing a receptive audience for future guidance on net-zero energy and carbon neutral buildings," said Rita M. Harrold, IESNA director of technology. "The green building movement offers an unprecedented opportunity to respond to the most-important challenges of our time, including global climate change, dependence on non-sustainable and expensive sources of energy, and threats to human health," said Rick Fedrizzi, President, CEO & Founding Chair, U.S. Green Building Council. "Working with ASHRAE, AIA and IESNA on the Advanced Energy Design Guide series is part of a critical collaborative effort to provide the industry with the tools it needs to make an immediate and measurable impact."

Upcoming publications in the series include 30 percent guidance books for highway lodging, existing buildings and small health care facilities. For more information on the Advanced Energy Design Guide series, visit www.ashrae.org/aedg.

ASHRAE Announces Staffing Changes Related to Technology

ATLANTA – Two senior management changes are being announced related to ASHRAE's Technology Department.

Bruce Hunn, Ph.D., who has served as ASHRAE's director of technology since 1997, has been named to a newly created position, director of strategic technical programs. Claire Ramspeck, who formerly served as assistant director of technology for standards and special projects, has been named director of technology.

"These changes allow for better support of ASHRAE resources as the demand for ASHRAE's technical expertise and collaborative projects continues to grow," Jeff Littleton, ASHRAE executive vice president, said. "This will enhance ASHRAE's efforts in key technical areas such as net-zero-energy policy and the advancement of our activities with other organizations in the building industry."

As director of strategic technical programs, Hunn will oversee ASHRAE's special projects, such as development of its Advanced Energy Design Guide series, the upcoming Advanced Indoor Air Quality guide and other documents that will provide design guidance to achieve net-zero-energy buildings.

Prior to joining ASHRAE, Hunn served as head of the Building Energy Systems Program, Center for Energy Studies, the University of Texas at Austin.

Ramspeck will direct staff support of ASHRAE's \$3 million per year research program, its 90-plus technical committees and its 120-plus standards as well as technical services.

She has worked at ASHRAE since 1995, previously serving as manager of technical services and manager of standards. Prior to working at ASHRAE, she was a design engineer for Bechtel.

ASHRAE, Global Cold Chain Alliance Ban to Promote Mutual Refrigeration Interests

ATLANTA – Under a new agreement, ASHRAE and the Global Cold Chain Alliance will work together in a strategic partnership to advance and promote the mutual interests of refrigeration and facility professionals.

Potential collaborative efforts include development of a refrigerated warehouse guide, updating the existing refrigeration warehouse chapter and other guidance in the ASHRAE Handbook, Refrigeration, and co-sponsoring of research related to refrigeration.

"ASHRAE's involvement in refrigeration began more than 100 years ago, and since that time the Society has been a strong link in the cold chain through our research, education and other technical information," ASHRAE President Bill Harrison said. "Through our agreement with the Global Cold Chain Alliance, we will strive to revitalize refrigeration to better serve the needs of the world. Working together, we must seek the best in refrigerants, efficiency, cost reduction, reliability and energy utilization."

"This signed agreement for Strategic Partnership between the Global Cold Chain Alliance and ASHRAE is an example of the strength of an industry addressing the challenges of a safe and efficient cold chain around the world. ASHRAE members represent a key element in the success of this initiative," Bill Hudson, president and CEO of the Global Cold Chain Alliance, said.

**Improving Building Performance Strong Focus of ASHRAE Meeting**

ATLANTA – Tremendous opportunities for improving the performance of existing buildings were highlighted at the ASHRAE 2008 Annual Meeting held in Salt Lake City.

The meeting theme of "Building Performance" was reinforced by focus of the newly elected president on operation and maintenance, introduction of a new "sustainable footprint" project and launch of the Society's certification program for high performance building design professionals.

Some 1,670 members came together to support the Society's mission of advancing HVAC&R to serve humanity and promote a sustainable world.

"The beautiful Rocky Mountains surrounding Salt Lake City was the perfect scene for another productive ASHRAE meeting," Bill Harrison, ASHRAE president, said. "When you're in the mountains, hiking up those steep walls of rock, it may seem like the climb will never end. But when you take a step back and look at those slopes, the mountains don't seem so unbearable. With our meeting theme of Building Performance, ASHRAE showed that our climb to our goal of energy efficiency for the world's buildings doesn't look so far away. In fact, it seems we are almost there."

Harrison was inducted as the Society's president for 2008-09. Through his theme, Maintain to Sustain – Delivering ASHRAE's Sustainability Promise, Harrison will focus on operating buildings to deliver the energy efficiency inherent in their design, including effective commissioning, improved documentation, and programs to educate and certify building operators.

"We must maintain to sustain, we must train to sustain and we must influence the operation of our buildings to conserve energy," he said. To read his presidential address, visit www.ashrae.org/harrison.

At the meeting, ASHRAE launched its first sustainable footprint project – designed to leave behind a lasting sustainable footprint in the cities where the Society's meetings are held. Thanks to funds and equipment donated by members and others, a solar hot water heating system was installed at the YWCA of Salt Lake City's Teen Home. More than \$9,000 in money and equipment was raised to install the system, with a ribbon cutting held as part of the meeting.

ASHRAE provided four flat solar panels and additional storage capacity for domestic hot water use. The solar panels will replace approximately 100 decatherms of natural gas per year and reduce the carbon footprint for the home by over 10,000 lbs. of CO₂ annually, saving the YWCA more than \$650. For more information, visit www.utahashraesolar.tzo.com.

ASHRAE Learning Institute courses related to natural ventilation and solar applications were well-attended, illustrating that "technology as usual" is no longer the norm for building design, construction and operation.

Top-attended technical program sessions included Utilizing VFD for Building HVAC System Performance; Issues Update: Performance Based Energy Labels for Buildings; Improving Building Performance by Using the IAQ Procedure; Balancing Energy and Water Conservation in HVAC Cooling Systems: A Total Consumption Approach; Benchmarking Performance of Ventilated and Non-Ventilated Attics; Modeling Data Center Airflow and Cooling Performance; and the keynote technical plenary speaker Arah Schuur with the Clinton Climate Foundation.

Top-selling publications at the meeting were the ASHRAE GreenGuide: The Design, Construction and Operation of Sustainable Buildings; ASHRAE Guideline 1.1-2007, HVAC&R Technical Requirements for The Commissioning Process, ANSI/ASHRAE Standard 62.1-2007, Ventilation for Acceptable Indoor Air Quality, and its User's Manual, and ANSI/ASHRAE/IESNA Standard 90.1-2007, Energy Standard for Buildings Except Low-Rise Residential Buildings.

ASHRAE also launched its second certification program in high-performance building design with some 60 people taking part. The examination will be available on computer at testing centers in the U.S. and Canada by mid-August.

The next certification program will focus on operation and maintenance, and is scheduled to launch at the 2008 Winter Meeting, followed by a program on commissioning at the 2009 Annual Meeting. For more information, visit www.ashrae.org/certification.

ASHRAE will hold its 2009 Winter Meeting, Jan. 24-28 in Chicago, accompanied by the AHR Expo, Jan. 26-28.

ASHRAE Raises More Than \$2 Million for Research Promotion

ATLANTA -Five hundred twenty-five thousand six hundred minutes. How do you measure, measure a year?

So goes the song from the hit play Rent. But at ASHRAE, we've measured the past year in dollars: \$2,081,422 to be exact. Exceeding the 2007-2008 fiscal year's \$2 million goal, ASHRAE's efforts on the chapter and Society level for raising funds for research have led to a record-breaking year.

"Surpassing our goal for Research Promotion truly signifies the dedication of our volunteer base," says Bill Harrison, ASHRAE president. "ASHRAE volunteers are the backbone of our Research Promotion program, which is a grassroots effort. I thank each of the 160 dedicated fundraising volunteers on the chapter level for helping fund our research program, which is widely respected in the building industry."

With 6,000 total donations for the year, nearly half came from individual ASHRAE member donations, with corporate donations comprising the remainder. With an increase of nearly \$300,000 over the previous year, the money raised will fund research projects beginning in the 2008-2009 fiscal year. ASHRAE conducts about \$8 million in research in any given year, with projects often spanning several years. Currently, there are 92 active research projects, including ones focusing on hospital operating room air distribution and air quality on board commercial aircraft.

Individual chapters raise funds in a variety of ways, including golf tournaments, auctions and educational seminars. ASHRAE's Region VIII, which covers Oklahoma, Texas, Arkansas and Louisiana, led the regions in total funds raised with \$375,591.

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.



BACnet Looks at Improving Standardized Communications

ATLANTA – A new standard way of representing building data will give BACnet new capabilities for standardized communications between a wide range of applications.

A definition for an XML syntax which can be used to represent building data in a consistent, flexible and extensible manner, is defined by addendum t, recommended for public review by the BACnet committee during ASHRAE's recent 2008 Annual Meeting.

The Extensible Markup Language (XML) is a popular technology in the data processing and communications worlds, based on its ability to model a wide range of data, and its ability to be transformed and extended.

"With this new IT-friendly way of representing building data, we are opening up a whole range of possible new ways to share data. XML can be used for exchanging files between systems, integrating buildings with energy utilities, and expanding enterprise integration with richer Web services." said Dave Robin, incoming BACnet chair.

In a busy three-and-a-half day session during the meeting, the BACnet committee moved eight other addenda toward publication.

Addendum g, a new means for securing BACnet messages using updated encryption technologies, was recommended for another public review following an extended period of revision and analysis by the Network Security working group following the preceding public review.

The Life-Safety and Security working group, comprised of BACnet and physical security industry experts, recommended another public review for Addendum j, which proposes physical access control extensions for BACnet.

"We received only nine comments on the previous public review," said working group convener David Ritter, "and they were all positive and constructive comments."

The Testing and Interoperation working group revised its definitions of several new types of BACnet operator workstations following the first public review of addendum l last fall.

"These definitions will not only allow users to specify the capabilities of different workstations, but are necessary for defining the tests done on those workstation by BACnet testing labs," said working group convener Carl Neilson.

Addenda h, r and s, all comprised of a number of independent changes, were also recommended for public review.

After reviewing the comments submitted for two addenda, the BACnet committee determined that addenda b and m had passed spring public review and will be submitted for publication. Both addenda are comprised of several independent changes but include user-oriented extensions such as the Event Log object, which keeps a history of BACnet alarms in a standard fashion.

Also during the meeting, outgoing BACnet chair Bill Swan announced the publication of BACnet 2008, incorporating the five addenda that have been approved since the publication of BACnet 2004.

The BACnet committee continues to work on a broad range of other items, such as architectural and theatrical lighting controls, developing standard profiles for various building automation devices, CCTV control, and elevator monitoring.

ASHRAE Publishes New Guidance on Commissioning Process

ATLANTA – Specific tasks to successfully implement the commissioning process for HVAC&R systems and assemblies are featured in a new guideline from ASHRAE.

ASHRAE Guideline 1.1, HVAC&R Technical Requirements for the Commissioning Process, describes the technical requirements for the application of the commissioning process described in ASHRAE Guideline 0-2005 that will verify that the HVAC&R systems achieve the owner's project requirements.

"The quality-oriented process outlined in the guideline provides improved quality and greater cost effectiveness compared to commissioning as currently practiced by many commissioning providers," Walter Grondzik, secretary of the committee that wrote the guideline, said. "One problem with the current practice is that 100 percent checking is performed during the construction phase of the project delivery process, and this checking usually focuses on limited or targeted systems. Quality-based sampling is not used, and so the current approach has limited quality-based random inspection procedures."

The guideline contains more than 100 pages of annexes, providing concrete examples of forms and documents to assist the commissioning team and owners in their efforts to deliver quality buildings that meet the owner's project requirements.

Twenty-five sample checklists, covering pre-design, design and construction, are included along with a sample owner's project requirements verification test procedure.

The cost of ASHRAE Guideline 1.1, HVAC&R Technical Requirements for the Commissioning Process, is \$69 (\$55, ASHRAE members).

SIDEBAR

Why should you use the commissioning process? Commissioning a building (and systems within a building) helps ensure that:

- The owner's project requirements are complete, feasible and well-documented;
- The design team's solutions adequately address the owner's requirements;
- Construction is complete and of appropriate quality;
- The owner receives the training and project documentation to successfully operate the project;
- The many players in the project acquisition process can cooperate for the common good.

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

**Recreation Center Focus of ASHRAE Student Design Competition**

ATLANTA – Healthy bodies and a healthy building go hand-in-hand in the winning entries for ASHRAE's 2008 Student Design Competition.

This year's competition featured architectural design as well as selection and design of HVAC&R systems for a 60,000-square-foot community recreation center. The center features a gym with two full-size basketball courts and a running track, a wellness center with fitness equipment room and aerobics room, a natatorium with a six-lane swimming pool and indoor racquetball courts.

First place in the HVAC system selection category is awarded to Alyssa Adams, James Gawthrop Jr., Amy Leventry, Gregory Smithmyer, Calvin Douglass, Justin Herzing and Michael Smith of The Pennsylvania State University, University Park, Pa. Their advisor is William Bahnfleth, Ph.D., P.E.

The students chose a ground-source heat pump with active chilled beams or fan coils in a four-pipe system configuration for both heating and cooling and a dedicated outdoor air system for all spaces with an enthalpy wheel for energy recovery and a solar assisted LiCl dehumidification unit in the natatorium space.

"This solution was found to be the most sustainable of all the systems considered," the students wrote. "It uses heat transfer from the earth as opposed to burning fossil fuels and utilizes solar energy from the solar thermal collection panels, reducing the amount of energy supplied to the building and the energy footprint of the facility. Electricity used by the facility is directly translated into emissions at the power plant. Therefore, minimizing the onsite energy consumption not only saves energy but also reduces carbon emissions."

First place in the HVAC system design category goes to Chaowanaphan Lekham, Patarapol Puangkum, Pakorn Nontiwatwanich, Wiroj Ekwongmunkong and Supayos Suveepattananont of Chulalongkorn University, Bangkok, Thailand. Their faculty advisor is Chirdpun Vitooraporn, Ph.D.

The students chose an electric air-cooled chiller system with 134a as a primary refrigerant and water as a secondary refrigerant. Elements of the system include variable-speed drives, outside air units, CO2 sensors, and heat pipe and heat recovery wheel units.

"The relative energy consumption as well as relative operating and maintenance costs determined that the system is not only beneficial for the building owner and users but for the environment as well," the students wrote. "We believe our design provides a functional, economical, environmentally friendly and sustainable HVAC system for serving the center."

First place in the architectural design category is awarded to Alexandra Gibson, Justina Jones, Bryan Quarles and Bazigha Tufail of The University of Kansas, Lawrence, Kan. Their advisor is Brian A. Rock, Ph.D., P.E.

Their design was based on their goal of using sustainable technologies for HVAC&R, lighting, energy supply and water use. Key features include a green roof to combat the urban heat effect and to provide extra roof insulation as well as contributing to CO2 absorption/oxygen output; rainwater harvesting; development of proper lighting controls detecting the amount of daylight penetration, efficient illumination fixtures and the use of light shelves for indirect lighting; and photovoltaic panels to minimize electricity use.

"To produce a building that includes all of these ideas while remaining beautiful and also acting as an educational tool, integration of these systems from the beginning from the design was a key element," the students wrote.

Awards will be presented at ASHRAE's 2009 Winter Meeting Jan. 24-28 in Chicago. Winning student groups will each have a poster presentation to display their projects at the meeting.

The competition recognizes outstanding student design projects, encourages undergraduate students to become involved in the profession, promotes teamwork and allows students to apply their knowledge of practical design.

New Package from ASHRAE Gives Users Tools for LEED

ATLANTA - With a new package, ASHRAE has put the tools for making the most out of your LEED-intended project at your fingertips—at a discount. To help architects, program managers, building owners, and others meet and learn about LEED requirements and the development of high-performing buildings, ASHRAE has put together a new package that includes three ASHRAE standards frequently used in conjunction with LEED v.2.2. Also included are the Standard 62.1 and Standard 90.1 User's Manuals and three books from the popular ASHRAE Advanced Energy Design Guide series.

"The ASHRAE Tools for LEED package is an unbeatable source of technical information for creating sustainable buildings," says W. Stephen Comstock, publisher. "ASHRAE standards have long been a part of the LEED program's technical requirements, and we are pleased to offer these standards together to best benefit the building industry."

The hard-copy-only package price is \$426 (\$335 ASHRAE members), a 30 percent discount. To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), by mail at 1791 Tullie Circle NE, Atlanta, GA 30329, or visit the ASHRAE.org Bookstore at www.ashrae.org.

The full package includes:

- ANSI/ASHRAE/IESNA Standard 90.1-2004, Energy Standard for Buildings Except Low-Rise Residential Buildings (I-P edition)
- 90.1-2004 User's Manual
- ANSI/ASHRAE Standard 62.1-2004, Ventilation for Acceptable Indoor Air Quality
- 62.1-2004 User's Manual
- ANSI/ASHRAE Standard 55-2004, Thermal Environmental Conditions for Human Occupancy
- Advanced Energy Design Guide for Small Office Buildings
- Advanced Energy Design Guide for Small Retail Buildings
- Advanced Energy Design Guide for K-12 School Buildings
- Procedures for Commercial Building Energy Audits

**ASHRAE, The Green Grid Collaborate to Develop Data Center Efficiency**

ATLANTA – Publications that provide improved guidance for data center design and operation will result from a new agreement between ASHRAE and The Green Grid.

The cooperative publication agreement between ASHRAE and The Green Grid encourages the sharing of technical information, particularly guidance regarding energy efficiency, between the two groups.

With datacom center operations running 24 hours a week, 7 days a week, approximately three times the annual operating hours of most commercial properties, energy use is typically large and concentrated. As a result, issues such as sustainable design, energy efficiency and operating cost become critically important for these facilities.

"This agreement raises our collaboration efforts in the electronics industry and enhances our efforts to provide data center operators with important information to improve the energy efficiency of data centers, paralleling the work already being done by ASHRAE to improve energy efficiency in all types of buildings," said Roger Schmidt, chair of ASHRAE's technical committee on mission critical facilities, technology spaces and electronic equipment. "ASHRAE's unique membership makeup of manufacturers, designers, facility managers, architects and code officials will go a long way in assisting the member companies of The Green Grid."

"With energy shortages and rising energy costs now topping the list of concerns for large scale organizations, the movement to reduce data center and other IT energy usage patterns is quickly gaining momentum," said Geoffrey Noer, a director of The Green Grid. "We believe achieving greater IT energy efficiency is a crucial step to ensuring that growing companies can control costs while enabling future expansion."

The Green Grid, www.thegreengrid.org, is a global consortium dedicated to advancing energy efficiency in data centers and business computing ecosystems.

Eco-Roof Game Developed Through ASHRAE Grant

ATLANTA – University of Oregon students, come on down. You're the next contestants on the Eco-Roof Game.

Under a teaching project funded through a grant from ASHRAE, students at the University of Oregon will be challenged to develop, construct and determine the R-value of a green roof through a hands-on experience, known as the Eco-Roof Game. The project was one of 10 grants funded by ASHRAE through its senior undergraduate project grant program.

The grants, totaling some \$65,000, are awarded by ASHRAE to colleges and universities worldwide to promote the study and teaching of HVAC&R, encouraging undergraduate students to pursue related careers. The grants are used to design and construct projects. For more information, visit ASHRAE.org/studentzone.

As part of the Eco-Roof Game, students will use actual building materials, a heat flux transducer, dataloggers and moisture meters to learn about heat loss and gain, insulation value, material properties, water conservation, evapotranspiration and to consider strategies for conserving energy.

"Targeting both architecture and engineering students about energy and the environment is particularly important because, whether aware of it or not, they play a central role in shaping the world in these areas," said Alison Kwok, a professor at the university who submitted the grant application. "A thoughtless decision about building orientation may create a cooling load that lasts as much as a century. Instilling an experience about envelope materials can influence decisions about building design that will impact power use for thousands of business days."

Other ASHRAE grant recipients are:

American University of Beirut, experimental investigation for performance and optimized design of radiant heating panels for rooms constructed according to Lebanese building thermal guidelines

Cairo University, Water Cooling Tower Educational Stand: Design and Fabrication

Purdue University – Fort Wayne, Design and Development of Solar Cooling Demonstration Unit

Mapua Institute of Technology, Development of an Indoor Environment Quality Measurement Laboratory and Laboratory Set-up of Thermal Ice Storage for Air Conditioning Systems

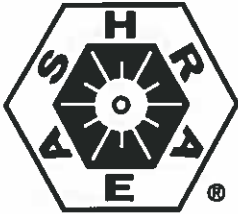
Purdue University – Calumet, Cooling Systems for Data Centers

Texas A&M University, Design and Construction of Solar Powered Refrigeration System Using Carbon Nanotubes and Methanol

Universidad Pontificia Bolivariana, Solar Absorption Refrigeration Module for the Chiller Type HVAC Lab

Western Kentucky University, Passive Residential Cooling System

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.



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LONDON CANADA CHAPTER #116

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Mon Nov 24/2008

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TOPIC:

**Energy Efficiency in Existing
Buildings - our greatest opportunity
for a Sustainable Future**

GORDON HOLNESS P.E.
Consulting Engineer
ASHRAE Society President Elect

Meeting - Mon Nov 24/2008

RESEARCH NIGHT

London Chapter Members = \$30.00
Meal Plan Rate = \$150.00
Students = \$10.00 Others = \$40.00

THE LAMPLIGHTER INN, 591 Wellington Rd., London
CASH BAR ALL YOU CAN EAT BUFFET
5:15-Social 6:00-Dinner 7:15-Program



Nov. 08



President's Message

Season's Greetings from the ASHRAE London Chapter Executive.

With little more than 5 weeks until Christmas, and 6 weeks to 2009, this year has really flown by quickly.

Our October meeting was well attended by more than 54 members, students, and guests, and we hope to see this increased attendance continue.

This month's meeting will feature the ASHRAE Society incoming President Elect as our speaker.

Gordon V. R. Holness will present his Distinguished Lecture on "Energy Efficiency in Existing Buildings - our greatest opportunity for a Sustainable Future".

Gordon will attend the ASHRAE Windsor Chapter meeting on Tuesday November 25th and will speak on "ASHRAE's Path Towards Net Zero Energy Buildings".

The Windsor Chapter of ASHRAE is celebrating their 25th Anniversary this year, and we would like to wish them the best, and many more years of success.

This meeting in November will be a Research Promotion night, and we will be recognizing some of our past donors to ASHRAE Research with a certificate and coins. We hope to have Gordon Holness do some of the presentations on behalf of ASHRAE Society.

We are looking to membership for suggestions or comments re the venue that we currently are using at the Best Western Lamplighter Inn. It has been suggested that we may want to explore a new meeting location, and were looking for input from our members. Please feel free to speak to any of the members of our Board of Governors if you wish to suggest an appropriate location for consideration.

We look forward to seeing everyone at the meeting next Monday night...

Eric Shaw
ASHRAE London Canada Chapter President

Speakers Bio


GORDON HOLNESS P.E. ASHRAE President-Elect

Gordon Holness P.E. is Chairman Emeritus of Albert Kahn Associates, Inc. Architects and Engineers, in Detroit. He retired from the firm in 2001 having served for over 32 years including roles as Chief Mechanical Engineer, Treasurer, Board Member, President and CEO. He currently provides Consulting Engineering Services and serves as an expert witness for design and construction issues.

He is a Professional Engineer, registered in 42 States and 5 Provinces. He is a chartered engineer in the United Kingdom. He has over 50 years experience in design and construction, specifically in mechanical engineering services for industrial, health care and institutional buildings in England, Canada and the United States.

He joined ASHRAE in 1965 and is currently Society President Elect serving on the Executive Committee and the Board of Directors. He serves as Chair of the Advocacy Committee, and Chair of Members Council. Mr Holness will serve as President of the Society for 2009-10.

Pete Edmiston
Branch Manager



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Upcoming Meetings & Events

Mon Jan 26/2008 Membership Night

Revisions to B149 and Venting
Don McInroy
Industrial Sales & Product Manager
Security Chimneys International

Mon Feb 23/2009 Student Night

Controls
Technology Shifts and ASHRAE Standards
Joseph Klotz
Product Sales Manager for Canada
Johnson Controls

Mon Mar 30/2009 Tour Night

Tour - Toyota

Mon Apr 27/2009 Membership Night

CIPH and the Future of Hydronics In Canada
John Goshulak P.Eng.
Vice President, Sales and Marketing
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engineering tomorrow... today

ASHRAE's 2009 Winter Conference
January 24-28
AHR Expo
Jan. 26-28

www.ashrae.org/chicago

Sustainable Urban Design the Focus of ASHRAE Winter Conference '09 in Chicago

ATLANTA – At the 2009 ASHRAE Winter Conference in Chicago, you can be greeted at the Tech program not once but twice, courtesy of this year's extended series of sessions at McCormick Place on Wed., Jan. 28. Although the conference's technical program begins Jan. 25 at the Palmer House Hilton, the "Wednesday Welcome" event at the AHR Expo location offers ASHRAE members a chance to attend a kick-off morning reception and receive critical technical information at the educational sessions, with access to the show floor to see the latest in HVAC&R offerings.

ASHRAE's free public session also focuses on Sustainability in the Urban Development, sharing how the industry is building on its efforts to increase energy efficiency and indoor environmental quality of buildings by furthering the sustainability of entire communities. It is held at 3 p.m. Jan. 26 at McCormick Place.

The ASHRAE Winter Conference runs Jan. 24-28, 2009, and the AHR Expo takes place Jan. 26-28. For more information on the ASHRAE Conference, please visit

www.ashrae.org/chicago

**ASHRAE Research Newsletter**

This year's fund-raising campaign has gotten off to a good start. As of the end of October, we are at \$838 of our annual goal of \$10,000. We will begin our annual fund-raising drive in full earnest beginning January 2009 but donations can be made at any time. Key things to remember when making your donations this year are;

- Canada gets back over double what is received in research donations. In Region II alone, there is currently \$536,707 of research projects in progress. Some key research projects happening locally are "Improving Load Calculations for Fenestration with Shading Devices" and "Geothermal Energy". The results from both these projects will help in LEED-certified building design.
- Donations to ASHRAE Research Canada are considered charitable donation for companies so there is tax deduction.
- *No donation is too small!!!*

In appreciation for donation received over the past year, I would like to recognize the following Honour Roll contributors from London Chapter. Thanks again for your continued support of ASHRAE Research Canada.

\$100

Mr. Andrew Piatek

Mr. Dennis Dawe

Mr. Eric Shaw

Mr. George Qubty

Mr. Jack C Maynard

Mr. Jason Vandenberghe

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Engineers Inc.

Johnson Controls (London)

Union Gas Ltd.

*Scott Edmunds**Research Chair 2008-2009**ASHRAE London Chapter**Ph: 519-495-4761**sedmunds@uniongas.com*

**New Professional Certification from ASHRAE Focuses on Facility Operations and Performance**

ATLANTA – Energy use in buildings can be reduced by 10 to 40 percent by improving operational strategies in buildings, according to a study by the Energy Systems Lab at Texas A & M University. A new certification program from ASHRAE helps building owners know they are hiring and retaining employees and consultants who know how to take advantage of such strategies.

The Operations and Performance Management Professional Certification (OPMP) program helps earners demonstrate their knowledge of the management of facility operations and maintenance and their impact on HVAC&R systems' performance. The program will launch at the ASHRAE Winter Meeting in Chicago in January and will be available via electronic testing centers worldwide starting in March 2009.

"With buildings using 40 percent of all energy in the United States, it is essential that their energy consumption be reduced," says Bill Harrison, ASHRAE president "Every building, new or old, must be operated at its own optimum level. To do so, we must apply advanced knowledge and skills to building operations. ASHRAE's OPMP certification helps professionals attest that they are well prepared to manage and maintain buildings to fully achieve reliability and their potential energy savings."

Developed with input from APPA and GSA, the OPMP certification program is intended for those working in facilities operations, management construction, design, or consulting; and for those who have experience in facility operations and performance. By earning OPMP certification, certificants will demonstrate a well-rounded understanding and knowledge of the management of facility operations and maintenance and the impact of O&M on HVAC&R systems' performance.

Individuals must meet certain eligibility qualifications to take the exam. For more information, an exam content outline and available resources for exam preparation, please visit www.ashrae.org/certification.

The fee for the OPMP program is \$275 for ASHRAE members and \$395 for non-members. For more information, please e-mail certification@ashrae.org.

Inspection, Maintenance Requirements Outlined in New ASHRAE/ACCA Standard

ATLANTA – Maintain to sustain is the name of the game when it comes to saving energy and money in today's building stock.

A new standard from ASHRAE and the Air Conditioning Contractors of America (ACCA) will help ensure a consistent minimal level of HVAC&R maintenance and inspection to preserve a system's ability to achieve acceptable thermal comfort, energy efficiency, and indoor air quality in commercial buildings.

ANSI/ASHRAE/ACCA Standard 180-2008, Standard Practice for Inspection and Maintenance of Commercial Building HVAC Systems, is the first standard to address inspection and maintenance of HVAC systems. Robert Baker, chair of the committee that wrote the standard, noted that inconsistencies exist within the building industry when it comes to inspection and maintenance of HVAC systems, with some facilities following rigorous policies while others have adopted a run-to-failure approach.

"Consistent maintenance ensures that energy efficiency remains at design levels," Baker said. "Where maintenance is neglected, energy costs rise significantly and equipment life drops dramatically. With HVAC&R systems responsible for about 60 percent of site electrical energy use, it's imperative that we provide consistent maintenance and inspection to improve energy efficiency along with thermal comfort and indoor air quality. When systems are not maintained, indoor air quality, occupant comfort and energy efficiency all suffer."

In addition, much of the information that will be required to prepare the maintenance program can be obtained from building commissioning documents, which provides a basis for identifying failures.

The cost of ANSI/ASHRAE/ACCA Standard 180-2008, Standard Practice for Inspection and Maintenance of Commercial Building HVAC Systems, is \$31 (\$25, ASHRAE members).

New Ventilation Design Requirements for Health Care Facilities Available from ASHRAE

ATLANTA – Just like the right dose of medicine can improve health, proper ventilation is an integral part of patients' well-being in health care facilities.

Requirements to ensure high-quality ventilation can be found in a new standard written by ASHRAE and the American Society for Healthcare Engineering (ASHE). ANSI/ASHRAE/ASHE Standard 170-2008, Ventilation of Health Care Facilities, defines ventilation system design requirements that provide environmental control for comfort, as well as infection and odor control.

The standard is the first ANSI standard in the nation to specifically address ventilation in health care facilities and is available for adoption by various authorities for health care facility construction such as city, state and federal governments and by private national organizations such as the Facilities Guidelines Institute and the Joint Commission on the Accreditation of Healthcare Organizations (JCAHO).

Without high-quality ventilation in health care facilities, patients, health care workers and visitors can become infected by simply breathing.

"Air-transmitted pathogens can be found everywhere in poorly ventilated health care facilities," Richard Hermans, P.E., ASHRAE certified healthcare facility design professional (HFDP), chair of the committee that wrote the standard, said. "Because these organisms are found in higher concentrations in hospitals and because patients are susceptible to them, additional care should be taken in the design of ventilation systems."

The standard addresses systems and equipment; space ventilation for a variety of areas in health care facilities, including airborne infection isolation rooms, critical care units, burn units, surgery rooms, and Class B and C operating rooms; and planning, construction and system startup.

The cost of ASHRAE/ASHE Standard 170, Ventilation of Health Care Facilities, is \$54 (\$43, ASHRAE members).

**New Standard Provides Guidance on Testing Seismic Restraints for HVAC&R Equipment**

ASHRAE Standard 171-2008 Published

ATLANTA – Forget what Jerry Lee Lewis said; there's not going to be a whole lotta shakin' going on with a new standard from the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE). ANSI/ASHRAE Standard 171-2008, Method of Testing Seismic Restraint Devices for HVAC&R Equipment, provides manufacturers a standard way of testing such devices to prequalify products for earthquake-prone areas.

"This standard is a breakthrough for ASHRAE," says James Tauby, chair of the committee that wrote the standard. "This new national standard moves testing from the West Coast to the entire United States.

It is the first national standard for seismic restraint testing of non-structural components that does not require shaker table testing, which is the required testing form in many California projects. Standard 171 provides provide static-test procedures for determining the capacity of seismic restraints for HVAC&R equipment. These test procedures determine the maximum force a restraint can withstand without breakage or permanent deformation.

Manufacturers of vibration isolators, seismic restraint vendors and strut channels can use the standard to test their products' suitability for standing up to earthquake conditions, and consulting engineers can use the standard as a reference in specifications.

The cost of Standard 171-2008 is \$39 (\$31, ASHRAE members).

ASHRAE/IESNA Standard 90.1-2007 User's Manual Makes it Easier to Save Energy

ATLANTA – A revised user's manual will assist users of the ASHRAE/IESNA energy conservation standard in energy efficient design.

The User's Manual for ANSI/ASHRAE/IESNA Standard 90.1-2007, Energy Standard for Buildings Except Low-Rise Residential Buildings, is now available. This manual has been through an extensive revision process to incorporate the various addenda approved since the 2004 edition according to Keith Emerson, who oversaw review of the manual for the Standard 90.1 committee. Since the 2004 edition was published, 44 addenda have been approved and are now incorporated into the manual. Updates have been made to reflect and illustrate the changes in every portion of the 90.1 Standard. Appendix G changes have also been made.

"The Appendix G changes will be particularly useful to people involved with projects that are trying to achieve a certain amount of savings over and above the minimum requirements of the standard," Emerson said.

The 90.1-2007 User's Manual illuminates the standard by providing detailed instruction, calculation examples and compliance forms for the design of commercial and high-rise residential buildings. It includes sections on administration and enforcement, building envelope, HVAC systems, service water heating, power, lighting, the energy cost budget method and the building performance rating method.

The cost of the 90.1 User's Manual is \$93 (\$74, ASHRAE members), plus shipping and handling.

ASHRAE Publishes Residential IAQ Guideline

ATLANTA – A new residential ventilation and indoor air quality (IAQ) guideline is now available from ASHRAE.

ASHRAE Guideline 24-2008, Ventilation and Indoor Air Quality in Low-Rise Residential Buildings, is the companion guideline to ANSI/ASHRAE Standard 62.2-2007, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings, the only nationally recognized ventilation and IAQ standard developed solely for residences. Guideline 24 provides information on achieving good IAQ that goes beyond the requirements contained in Standard 62.2 by providing explanatory and educational material not included in the code-intended standard.

The guideline, which was written by the committee responsible for maintaining Standard 62.2, includes information on envelope and system design, material selection, commissioning and installation, and operation and maintenance.

Committee chair Steven Emmerich said, "While Standard 62.2 contains the essential minimum requirements that all low-rise residential buildings should meet to achieve acceptable IAQ, Guideline 24 is an essential resource for designers, builders and others looking for reliable information on topics not covered in the standard or seeking to go beyond minimum for high performance construction. Topics covered range from fundamentals of building airflow to humidity control to verification of equipment performance."

The cost of Guideline 24-2008 is \$54 (\$43, ASHRAE members). To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit at www.ashrae.org/bookstore.

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

**ASHRAE Seeks to Engineer Tomorrow....Today in Windy City**

ATLANTA – Chicago, with one of the most recognizable skylines in the world, has long-standing status as a livable urban center. That the city has stood the test of time makes it the perfect backdrop for ASHRAE's 2009 Winter Conference theme, Sustainable Urban Design: Engineering Tomorrow....Today.

With a focus that resources must be conserved and environments respected even in urban settings, the ASHRAE Conference takes place Jan. 24-28 at the Palmer House Hilton. Held in conjunction with the meeting is the ASHRAE co-sponsored AHR Expo, Jan. 26-28, McCormick Place.

For complete meeting information and to register, visit www.ashrae.org/chicago. Take advantage of the "Early Bird" rate and register by Oct. 31.

Meeting highlights include availability of more than 200 Professional Development Hour credits available through the technical program, with its theme of Sustainable Urban Design, and ASHRAE Learning Institute courses.

Seeking to create additional value for Expo and Conference attendees, ASHRAE is launching "Wednesday Welcome," at which all ASHRAE program sessions on Jan. 28 will take place at McCormick Place. Hands-on, applications-type programs are offered in the morning, leaving the afternoon open to tour the Expo.

ASHRAE's free public session also focuses on Sustainability in the Urban Development, sharing how the industry is building on its efforts to increase energy efficiency and indoor environmental quality of buildings by furthering the sustainability of entire communities. It is held at 3 p.m. Jan. 26 at McCormick Place.

Also featured in the technical program is the technical plenary speaker, Adrian Bejan, Ph.D., J.A. Jones Distinguished Professor of Mechanical Engineering at Duke University. Bejan developed the constructal theory, which he says can predict how everything flows through time and space. The session takes place from 9:45-10:45 a.m. Jan. 25, Palmer House. Overall, the tech program features more than 100 sessions with presentations of 68 papers.

Opening the meeting on Jan. 24 at the plenary session is keynote speaker, Chris Luebke, who runs the Global Foresight and Innovation initiative at Arup, a global design and engineering firm. His presentation echoes the meeting theme with a focus on sustainable urbanization, looking at some of the current global efforts to both design new cities and adapt existing cities to the new era of dwindling resources.

Sustainability is highlighted in the technical tours of facilities, including the ASHRAE Technology Award winning-Chicago Center for Green Technology, the Modern Wing of the Art Institute, the Intercontinental Chicago, which is the first Energy Star-rated hotel in the city, and the Spertus Institute of Jewish Studies, designed on the concepts of tikkun olam (meaning repairing the world) and bal tashchit (do not waste).

The ASHRAE Learning Institute offers five Professional Development Seminars and 12 short courses at the Palmer House and McCormick. New sessions include Low Temperature Radiant Heating and High Temperature Radiant Cooling Systems, Chilled Beam Technology for Excellent Indoor Climate in an Energy-Efficient Manner, Installation of Residential Ventilation Systems (Standard 62.2), and Business Management and Operations for Engineers. ASHRAE also will launch its latest certification program, Operations and Maintenance Management Professional Certification, during the meeting. For more information, visit www.ashrae.org/certification.

Sustainable Urban Design the Focus of ASHRAE Winter Conference '09 in Chicago

ATLANTA – At the 2009 ASHRAE Winter Conference in Chicago, you can be greeted at the Tech program not once but twice, courtesy of this year's extended series of sessions at McCormick Place on Wed., Jan. 28. Although the conference's technical program begins Jan. 25 at the Palmer House Hilton, the "Wednesday Welcome" event at the AHR Expo location offers ASHRAE members a chance to attend a kick-off morning reception and receive critical technical information at the educational sessions, with access to the show floor to see the latest in HVAC&R offerings.

The Wednesday Welcome includes 18 hands-on, applications-type programs, held from 9 a.m. to 1:30 p.m., centering around the Technical Program theme of Sustainable Urban Design.

"The Wednesday Welcome gives Winter Conference attendees two great reasons to spend some extra time in Chicago," says Bill Harrison, ASHRAE president. "Not only does this extension of the ASHRAE Technical Program provide additional opportunities for earning PDHs, but attendees can take advantage of the location to make the most of the experience through AHR Expo's networking and product opportunities. It's the biggest bang for your ASHRAE buck."

Sessions held at McCormick Place feature back to basics sessions on load calculations and liquid chiller operations, BIM, Standard 62.1's demand controlled ventilation and IAQ procedure, VFDs, commissioning for sustainability programs, building automation systems and sessions entitled Liability and Litigation Issues in Green Design, Part 1 and 2 and Case Studies in Sustainable Retrofit to Reduce Energy of Existing Buildings.

Overall, the technical program offers more than 100 sessions, with more than 140 Professional Development Hour credits available.

Also featured in the technical program is the technical plenary speaker, Adrian Bejan, Ph.D., A. Jones Distinguished Professor of Mechanical Engineering at Duke University. Bejan developed the constructal theory, which he says can predict how everything flows through time and space. The session takes place from 9:45-10:45 a.m. Jan. 25.

ASHRAE's free public session also focuses on Sustainability in the Urban Development, sharing how the industry is building on its efforts to increase energy efficiency and indoor environmental quality of buildings by furthering the sustainability of entire communities. It is held at 3 p.m. Jan. 26 at McCormick Place.

The ASHRAE Winter Conference runs Jan. 24-28, 2009, and the AHR Expo takes place Jan. 26-28. For more information on the ASHRAE Conference, please visit www.ashrae.org/chicago.

**ASHRAE Opens Green Building Standard Committee to New Membership**

ATLANTA - As ASHRAE, USGBC and IESNA move forward in developing the nation's first standard for high-performance, green commercial buildings, membership on the committee developing the standard is being reconstituted.

Proposed Standard 189.1, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings, will provide minimum requirements for the design of high-performance new commercial buildings and major renovation projects, addressing energy efficiency, a building's impact on the atmosphere, sustainable sites, water use efficiency, materials and resources, and indoor environmental quality. It is being developed by ASHRAE, the Illuminating Engineering Society of North America (IESNA) and the U.S. Green Building Council (USGBC).

To better address the varied areas covered in the proposed standard, a new committee is being appointed. A call for members is open through December 4 at www.ashrae.org/publicreviews.

"The market will benefit from the lead taken by ASHRAE and its cosponsors in developing this most challenging standard, which addresses ever-evolving technology," said ASHRAE Presidential Member Kent Peterson, who has been named as chair of the Standard 189.1P committee. "As we have proceeded down this path, we recognized that the proposed standard would benefit from additional expertise and more involvement from interested parties. We are committed to developing this green building standard with accurate and appropriate technical content through a rigorous, transparent and fair standards development process."

The proposed standard has generated much public interest, with more than 900 comments received during each of the two public reviews. While the standard has undergone two public reviews, it is anticipated that the standard will undergo a new full public review in the near future as technical guidance and input is offered by new committee members.

Those interested in serving on the committee can find more information at www.ashrae.org/publicreviews.

ASHRAE Hosts Industry Partners at Headquarters Renewal Event

ATLANTA - The ribbon is cut, the donors have been honored, and ASHRAE's newly renovated sustainability showcase is officially open for business.

Some 200 people gathered Thursday, Oct. 23, for the Headquarter dedication ceremony in Atlanta. The guests included industry partners who donated nearly \$1.65 million in equipment and services for the \$7.65 million renovation.

"None of this would have been possible without the hard work and commitment from many volunteers and staff involved in the renewal for the last three years," Bill Harrison, ASHRAE president, said. "More importantly, generous donations by companies and firms have ensured that not only our building will be here for a long time to come but that ASHRAE can continue to provide the sustainable building technology guidance that we are known for."

"Not only is the renovation a technology and productivity showcase, it also exemplifies the incredible potential of determining ASHRAE members and the greater ASHRAE community working toward a common goal," Jeff Littleton, ASHRAE executive vice president said. "This renovation represents the largest capital investment in ASHRAE history at \$7.65 million."

Major contributors to the Headquarters project include the ASHRAE Foundation, Carrier Corp., Automated Logic Corp. /Automated Logic Georgia, ClimateMaster Inc., Daikin Industries Ltd., Southern Company/Georgia Power Company, and Trane. Partners also include Aircuity Inc. and Interface FLOR. Also donating are Allsteel® /Ivan Allen; Mark H. Brandli/design principal for Richard Wittschiede Hand; CxGBS; Dynamic Air Quality Solutions; EBTRON Inc.; GE Power; Bill and Margaret Harrison; Bruce Hunn, ASHRAE's director of strategic technical programs; ITT/Bell & Gossett/James M. Pleasants Co.; NorthWrite Inc.; PolyCon Manufacturing; Thermal Gas Systems Inc.; U.S. Green Building Council; and VFA Inc.

IFMA, ASHRAE COLLABORATE ON ENERGY EFFICIENCY ISSUES

ATLANTA — (Oct. 7, 2008) — With buildings accounting for 40 percent of primary energy use in developed nations, it is becoming increasingly important to find ways to build and operate them in an energy efficient manner. In recognition of this, the American Society of Heating, Refrigerating and Air-Conditioning Engineers and the International Facility Management Association are entering into an agreement that increases cooperation between the two groups.

The memorandum of understanding, to be signed at IFMA's World Workplace 2008 Conference & Expo, calls for sharing resources and collaborating on projects, publications, sustainability research and educational offerings that will be beneficial to both organizations' members and constituents. ASHRAE and IFMA will also work together on legislative and regulatory issues through their Washington, D.C., offices.

"Engineers and facility managers share an important relationship in creating and maintaining buildings that are safe, healthy and energy efficient," said Bill Harrison, ASHRAE president. "Now, ASHRAE and IFMA are seeking to take that cooperative relationship to the next level. This agreement strengthens the existing partnership between our two organizations. By working together on issues in the built environment, we can enhance our respective efforts to create a sustainable future."

"ASHRAE's indoor air quality standards have long provided benchmarks and guidelines for facility managers to use in keeping workers comfortable, safe and productive," said David J. Brady, IFMA president and CEO. "In the new era of triple bottom line accountability on financial, social and environmental contributions, the need for energy vigilance and conservation is greater than ever."

The memorandum will be signed at 2:30 p.m. on Thursday, Oct. 16, at a press conference during World Workplace. Long recognized as the world's premier educational and networking conference for facility managers and those in related fields, World Workplace brings industry leaders from the world's top business and government organizations together with educators and exhibitors to focus on the future of the work environment. Now in its 29th year, the conference will feature 83 educational sessions and new product demonstrations by more than 300 manufacturers from across the globe.

World Workplace will be held Oct. 15-17 at the Dallas Convention Center in Dallas, Texas. For a complete list of conference details, visit www.worldworkplace.org. Members of the media interested in attending World Workplace may register at no cost here.



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

LONDON CANADA CHAPTER #116

<http://LondonCanada.AshraeChapters.org>

Mon Jan 19/2009

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TOPIC:

**FIRE, LIFE SAFETY,
and BUILDING SCIENCE**

**MR. LESLIE SALTEL - Project Manager and
the Training Coordinator
and**

**MR. PHILIP BREARTON - Operations
Manager for the Building Science Group**

Pinchin Environmental
Mississauga, Ontario

Meeting - Mon Jan 19/2009

MEMBERHIP NIGHT

London Chapter Members = \$30.00
Meal Plan Rate = \$150.00
Students = \$10.00 Others = \$40.00

THE LAMPLIGHTER INN, 591 Wellington Rd., London
CASH BAR ALL YOU CAN EAT BUFFET
5:15-Social 6:00-Dinner 7:15-Program



JAN '09



President's Message

I would like to start out by saying that we hope that all had a good holiday, and wish the best to all for a successful and positive year in 2009.

Yes, 2009 Has arrived.... And so has the cold winter weather. With predicted temperatures of -22 Deg. C. this week, we will get a taste of some "Below Design Conditions" that we do not like to hear about. Hopefully, it will not hang around too long.

This month at ASHRAE we will be hearing from two presenters: Leslie Saltel - Project Manager- Fire & Life Safety, and Phil Breardon - Manager of Building Sciences; both with Pinchin Environmental on the topic of "Fire, Life Safety, and Building Science".

Getting our membership meeting attendance numbers increased has been an ongoing challenge, and we are looking to the members for help and to suggest ways to get more people out to the meetings. "Interesting topics" seems to be the most common theme... we would like to hear from you as to what topics would be of interest. If you have a suggestion as to a speaker or topic, please contact us, or speak to us at the meeting.

We are looking to the local membership for individuals/companies to sponsor the college and university students that attend our meetings. This sponsorship helps to defray the costs of the meeting and meal, and also ASHRAE Student Membership that our local chapter processes to Society on the student's behalf. If you are interested or willing, please speak to one of the local London Chapter chairs at the meeting, or feel free to contact us by phone.

The ASHRAE Winter Meeting is at the end of this month in Chicago - from January 26th to the 28th. This event has always been well attended, and most people come away from the McCormick Place Exhibits with something new and interesting, as there are over 1,800 exhibitors from 35 countries. There are also many short courses, Technical Seminars, and free educational sessions and presentations daily. If anyone would like a Free Show Registration Pass, I still have a few that I will be happy to provide at the January meeting on the 19th.

I look forward to seeing you all out at the meeting...

Eric Shaw
ASHRAE London Canada Chapter President

Jan 19/2009 Meeting
Main Presentation

FIRE, LIFE SAFETY,
and BUILDING SCIENCE

- Case Study - MGM Grand Hotel Fire
What is Fire - Know the enemy
Defensive Mode - Preventing Fire
Building Design
Offensive Strategies - Fighting Fire
What are the Rules of Engagement?
Residential Applications
What the Future holds

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Upcoming Meetings & Events

Mon Feb 23/2009 Student Night
 Controls
 Technology Shifts and ASHRAE Standards
 Joseph Klotz
 Product Sales Manager for Canada
 Johnson Controls

Mon Mar 30/2009 Tour Night
 to be determined

Wed Apr 22/2009 IAQ Satellite Broadcast/Webcast
 Clean, Lean and Green, IAQ for Sustainable Buildings

Mon Apr 27/2009 Membership Night
 CIPH and the Future of Hydronics In Canada
 John Goshulak P.Eng.
 Vice President, Sales and Marketing
 Weil-McLain Canada

Sustainable Urban Design the Focus of ASHRAE Winter Conference '09 in Chicago

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The ASHRAE Winter Conference runs Jan. 24-28, 2009, and the AHR Expo takes place Jan. 26-28. For more information on the ASHRAE Conference, please visit

www.ashrae.org/chicago



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Speakers Bio

Mr. Leslie Saltel is currently a Project Manager and the Training Coordinator for the Hazardous Materials Group at Pinchin Environmental. Leslie began his career in the Canadian Armed Forces and was a Paramedic with the Ontario Ministry of Health. He also attended O.S.H.A. HAZWOPER training (C.F.R. 1910.120) and Incident Commander Training in the U.S. in 1997. He has continued to develop training programs, specializing in Emergency Response including realistic training scenarios, often involving community tiered response and municipal Fire Departments in cooperation with industry to enhance disaster planning and emergency response. Leslie also has extensive experience with Health & Safety program development and adult education both in government and private industry.

Mr. Philip Brearton is Operations Manager for the Building Science Group at Pinchin Environmental. The building science group provides investigation and design services for commercial, institutional and industrial clients. Philip is a Professional Engineer with a Mechanical Engineering Degree from the University of Waterloo with a focus on material science. Philip began his career as a process engineer in the auto industry, managed construction and start-ups for two successive plastic film processing plants then ran his own roof material converting operation. Philip has personally assessed several hundred buildings for municipalities, school boards as well as multi-national companies. He has similarly overseen the design and implementation of hundreds of building renewal projects from below-grade, to the roof and everywhere in between. These projects have taught Philip a sensitivity to fire and building code implications as they relate to changes-in- use, repairs or renovations to existing buildings.

ASHRAE Partners with Industry Leaders in Building Sustainable Headquarters

ASHRAE's newly renovated Headquarters effectively serves as a laboratory without walls to extend the Society's knowledge and information worldwide.

"Our Living Laboratory provides value to ASHRAE members and the industry by allowing for evaluation of the ongoing energy and operational performance of the building at a level that is unprecedented in current commercial buildings," Bill Harrison, ASHRAE president, said. "The lab allows ASHRAE to contribute significantly to reducing energy use in buildings via future development of research and educational materials."

Completed in July, the \$7.65 million renovation includes a new learning and meeting center. Sustainable measures include projected reduction in annual energy usage of more than 31.5 percent through use of a dedicated outdoor air supply with energy recovery and humidity control, ground-source heat pumps and variable refrigerant flow systems with heat recovery; 52.3 percent reduction in water consumption by using low-flow or no-flow fixtures throughout the building; and increase of outside air delivered to each space by 30 percent beyond minimum rates specified in ASHRAE's Standard 62.1. More information can be found at www.ashrae.org/building.

The renewal was funded through donations of more than \$1.65 million in equipment, services and furnishings from more than 20 companies and individuals and the ASHRAE Foundation.

"The generous donations of the companies help ensure ASHRAE's headquarters is a showcase of sustainability for its members and the HVAC&R industry as a whole," Harrison said. "With its sustainability and productivity focus, this project showcases their commitment to environmental leadership and healthy built and natural environments. ASHRAE is grateful for not only their donations, but their dedication to the technologies we are embracing as part of the renewal."

Complete descriptions of donations can be found at www.ashrae.org/building. Major contributors to the Headquarters project include the ASHRAE Foundation, Carrier Corp., Automated Logic Corp. /Automated Logic Georgia, ClimateMaster Inc., Daikin Industries Ltd., Southern Company/Georgia Power Company, and Trane.

The ASHRAE Foundation provided funding for creation of the ASHRAE Foundation Learning Center, a new addition to the Headquarters that reflects the Society's commitment to education.

"The rapidly expanding technology on which our industry is based requires that individuals and industry alike are proactive in continuing their education," Richard Hayter, chair of the ASHRAE Foundation, said. "The Learning Center will significantly expand ASHRAE's ability to serve its members and the HVAC&R industry."

Automated Logic Corp. donated a networked building automation system hardware and software, which provides a user interface for the Living Lab, allowing researchers around the world to monitor performance and extract data for research purposes.



"We are very appreciative of the work ASHRAE does for our industry, conducting research and establishing standards that makes our job easier," said Steve Tom, director of technical information, Automated Logic Georgia. "We were delighted by this opportunity to give something back to ASHRAE. We also feel that the Web accessibility and data collection capacity of WebCTRL made it an ideal system to support the Living Lab."

Carrier Corp. donated funding for naming of the Willis H. Carrier Library on the second level of the Headquarters.

"It is with great honor that the ASHRAE Engineering Library will be named after Willis H. Carrier," said Mary Milmoie, director, marketing communications, Carrier Building Systems and Services. "Carrier invented the first system for 'manufactured weather' in 1902 and sparked an industry that revolutionized the way in which we live, work and play. From that defining moment – and through to the present day – Carrier has built on a legacy of innovation. For more than a century, Carrier's research, expertise and forethought have resulted in market-leading innovations and 'firsts' that have shaped and defined the heating, air conditioning and refrigeration industry."

ClimateMaster provided a geothermal heat system that utilizes on-site renewable energy to provide high-efficiency heating and cooling for the 14 individual zones on the second level of the building.

"With buildings accounting for nearly 40 percent of all U.S. energy consumption, there is no doubt that ASHRAE members will play a crucial role in reshaping our energy future," Daniel Ellis, president of ClimateMaster Inc., said. "We are pleased that we were able to assist ASHRAE in demonstrating its leadership by making its Headquarters a model of energy efficiency and environmental stewardship."

Daikin's donation of a variable refrigerant volume s (VRV®) system serves the first and the Learning Center. The non-ozone-depleting potential refrigerant, individual zone control capabilities and heat recovery technologies helped ASHRAE reach its goal of building a sustainable headquarters. Additionally, Daikin also contributed a vegetative roof garden above the new ASHRAE Foundation Learning Center, which will be known as the Daikin Sustainability Garden.

"Daikin industries, a member of the Global 100 Most Sustainable Corporations, is committed to providing energy-efficient and sustainable building solutions by ensuring environmentally conscious practices in all business, product development, and manufacturing activities," said Kosei Uematsu, senior executive officer, Daikin Industries Ltd., and president, Daikin U.S. Corp. "Daikin Industries is pleased to be a partner in the ASHRAE Headquarters Renewal Project helping to preserve resources for current and future generations."

Georgia Power/Southern Co. provided 170-watt photovoltaic modules, which make up a solar electricity system and that produces electricity during daylight hours and back feeds energy into an existing grid, and an electric water heater.

"Georgia Power is committed to being a good citizen by supporting of our employees' involvement in ASHRAE's mission of advancing the arts and sciences of HVAC&R and by directly supporting projects that protect our environment's resources," said E. Lamont Houston, senior vice president, Customer Service and Sales, Georgia Power. "ASHRAE's renovated Headquarters will serve as a Living Lab, allowing Georgia Power to use this facility with customers as a model of new technologies and give us data to share with customers on the implications and performance of these technologies on their sites."

Trane donated key elements of the Headquarter's building HVAC system, including a dedicated outdoor air system to optimize performance by reconfiguring internal components with bypass dampers. The company is supporting name of a conference area as the Reuben Trane Executive Conference Room.

"Through technology and innovation, Trane continues to support engineers in our industry," John W. Conover IV, Trane president, Americas, said. "Our donation to the ASHRAE Headquarters living lab is a symbolic way to demonstrate our continued dedication to ASHRAE and to engineers at large."

Other donors to the project are Aircuity Inc., whose sensing system senses a broad array of indoor environmental parameters and integrates this information with the onsite building management system for control of the indoor environment, and Interface FLOR, which provided modular carpet in most spaces of the Headquarters.

Also donating are Allsteel® /Ivan Allen; Mark H. Brandli/design principal for Richard Wittschiebe Hand; CxGBS; Dynamic Air Quality Solutions; EBTRON Inc. ; GE Power; Bill and Margaret Harrison; Bruce Hunn; ITT/Bell & Gossett/James M. Pleasants Co. ; NorthWrite Inc.; PolyCon Manufacturing; Thermal Gas Systems Inc.; U.S. Green Building Council; and VFA Inc.



Instructional Courses on Energy, IAQ Offered at ASHRAE '09 Conference

ATLANTA – A full slate of ASHRAE instructional courses are available for attendees at the ASHRAE 2009 Winter Conference and the AHR Expo in January.

Eleven three-hour courses, along with four six-hour courses, offered by the ASHRAE Learning Institute, Jan. 24-28, Chicago. For complete course and meeting registration, visit www.ashrae.org/chicago.

Professional Development courses taking place Saturday, Jan. 24, at the Palmer House Hilton are Complying with Requirements of ASHRAE Standard 62.1-2007, Exceeding Standard 90.1-2007, Testing, Adjusting, & Balancing and The Commissioning Process in New & Existing Buildings.

Short Courses taking place Sunday-Tuesday, Jan. 25-27, at McCormick Place in conjunction with the AHR Expo, are Humidity Control: Basic Principles, Loads, & Equipment; The Basics of a Proposed Standard on High Performance Green Buildings (Standard 189.1P); ; Introduction to Green Buildings & Sustainable Construction; Energy Management in New & Existing Buildings; Chilled Beam Technology; Low-Temperature Radiant Heating & High Temperature Radiant Cooling Systems; Installation of Residential Ventilation Systems (Standard 62.2); Healthcare Facilities: Best Practice HVAC Design Considerations & Criteria; Humidity Control: Applications, Control Levels, & Mold Avoidance; Healthcare Facilities: Best Practice Applications of HVAC Systems; and Introduction to Thermal Energy Storage Systems for A/C.

Healthcare Facility Design Professional

In response to overwhelming support from membership, in 2006 ASHRAE dedicated resources to the development of personnel certification programs. ASHRAE's first ever certification program, the Healthcare Facility Design Professional (HFDP), launched in June 2007. The second program, the High-Performance Building Design Professional (HBDP) program, launched one year later, in June 2008. Two more programs – in building operations and maintenance and in commissioning process management, respectively, will launch in 2009.

Each ASHRAE certification program will have its own eligibility requirements that candidates must meet in order to be eligible to earn that certification. These requirements will consist of sets of stated combinations of education and experience in the HVAC&R industry. Each candidate will be required to submit a completed application indicating how he or she meets the eligibility requirements for a specific certification program. After receiving approval from ASHRAE, the candidate will be instructed on how to register for the appropriate examination. A candidate who successfully passes an ASHRAE certification examination will be known as a Certificant. A new application will be required for each ASHRAE certification program. Membership in ASHRAE will not be required for participation in any ASHRAE certification program. However, ASHRAE members will receive discounts on certification examinations.

Each ASHRAE certification program meets the high standards you expect from the Society. Subject matter experts who represent a variety of perspectives develop both the content outline for a program and the program's certification examination. ASHRAE's intent is to make the certification programs as international as possible. So, for example, each program's eligibility criteria are written to recognize appropriate academic and work experience from anywhere on the globe. In addition, examination items reference both inches/pound (IP) and system international (SI) units of measurement.

For more information about ASHRAE's certification programs, please visit www.ashrae.org/certification

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

**Requirements to Standard 90.1 Proposed; Open for Public Comment**

ATLANTA – Changes to the purpose and scope of ASHRAE/IESNA Standard 90.1 as well as new lighting requirements are being proposed through public review.

ANSI/ASHRAE/IESNA Standard 90.1-2007, Energy Standard for Buildings Except Low-Rise Residential Buildings, provides minimum requirements for the energy-efficient design of buildings except low-rise residential buildings.

Among the proposed addenda out for public review is addendum aq, which proposes changes to the purpose and scope of the standard. The proposed modification addresses applications not covered in the existing standard scope, such as requirements for laboratories, data center cooling and kitchen exhausts. It would also permit the 90.1 committee to address technologies, such as computer equipment and refrigerated casework, and would extend existing requirements for envelope, space cooling and lighting to a larger group of spaces where energy is consumed.

"ASHRAE is committed to substantially reducing energy use in buildings," Mark Hydeman, vice chair of the committee, said. "This addendum is a critical step toward achieving that goal. For example, it requires all cooling and heating equipment that operates under standard conditions to comply with the existing minimum efficiencies of the standard regardless of the facility that they are in. Manufacturing and process environments often operate at much longer hours than office buildings and retail facilities, which served as the basis for the life-cycle cost analysis of the minimum efficiencies."

Standard 90.1 currently addresses design and construction of buildings. The proposed addendum would add operation and maintenance, which allows incorporation of industry standards such as ASHRAE/ACCA Standard 180-2008, Standard Practice for Inspection and Maintenance of Commercial Building HVAC Systems.

The addendum also incorporates utilization of on-site, renewable energy resources.

"By including on-site and renewable energy resources in the scope, an appropriate mechanism was created for future requirements as well as credits for these energy resources not currently provided in the standard," Hydeman said.

Proposed addendum aq is open for public review until Feb. 2.

Four other proposed addenda – ar, as, au and av – are open for review until Jan. 19, while a fifth addenda, at, is open until Jan. 4.

Proposed addenda ar and av are related to lighting efficiencies. Proposed addendum ar revises an earlier version of the standard where expanded exterior lighting power limits were put in place but details were not included on calculating installed power and its comparison to the limits. Addendum av would require that in all spaces where alterations take place, all requirements of section 9 are met, not just the lighting power density requirements.

The proposed addenda to ASHRAE/IESNA Standard 90.1 are available during their public review period. To read the addenda or to comment, visit www.ashrae.org/publicreviews

ASHRAE Hosts Conference on Net-Zero Buildings

ATLANTA – To help drive the building industry toward market-viable net-zero-energy buildings, ASHRAE is hosting a specialty conference on the topic in March in San Francisco.

"We have reached a time when the building industry is being called to shift to a new level of performance that will reduce our energy and carbon footprint," Bill Harrison, ASHRAE president, said. "It is time to advance net-zero-energy building knowledge." ASHRAE's Countdown to a Sustainable Energy Future...Net-Zero and Beyond conference takes place March 29-31 at Hyatt at Fisherman's Wharf in San Francisco. The conference will provide a forum to discuss the role of policy and regulatory involvement in addition to providing application knowledge for the various aspects of net-zero-energy buildings for both residential and non-residential buildings. It will include building science, energy efficiency in HVAC, lighting and appliances, and renewable energy sources applied to buildings.

To register or for more information, visit www.ashrae.org/netzeroconference

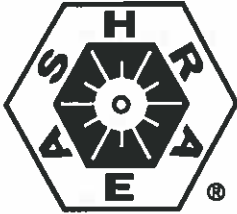
ASHRAE defines net-zero-energy buildings as those which, on an annual basis, use no more energy from the utility grid than is provided by on-site renewable energy sources. These buildings use 50 to 70 percent less energy than comparable traditional buildings, and the remaining energy use comes from renewable sources, like solar panels or wind turbines incorporated into the facility itself, according to Harrison.

He noted that the state of California recently announced its goal of new residential developments being net-zero-energy by 2020 and new commercial developments being net-zero by 2030.

"As the industry seeks solutions to these challenges, ASHRAE must be there to help disseminate the knowledge," he said.

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LONDON CANADA CHAPTER #116

<http://LondonCanada.AshraeChapters.org>

Mon Feb 23/2009

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TOPIC:

**CONTROLS
Technology Shifts
and ASHRAE Standards**

JOSEPH KLOTS, CEM

Project Sales Manager, Canada
Johnson Controls

Meeting - Mon Feb 23/2009

RESEARCH NIGHT

London Chapter Members = \$30.00
Students = \$10.00 Others = \$40.00

THE LAMPLIGHTER INN, 591 Wellington Rd., London
CASH BAR ALL YOU CAN EAT BUFFET
5:15-Social 6:00-Dinner 7:15-Program



FEB 109



President's Message

Challenging economic times are certainly being felt or at least noticed by all parts of the world – particularly to the south of us in the USA.

We in Canada sometimes think that we are insulated, and to some degree protected from the kinds of problems being experienced by other countries, but I don't think that we are going to be that fortunate. We may not suffer to the degree that the USA does, but we will definitely see and feel the belt tightening processes north of the border over the next year or two.

London has always been to some degree blessed with a good mix of industry and professional employment; we may not experience the huge "booms or busts" that areas like Windsor or Toronto do, but we have a much more stable economy here – due in large part to the institutional, and hospital presence and established economies.

Energy usage and consumption is always a concern and a target for producing savings – particularly when times get tough, we attempt to wring more dollars in savings from the day to day cost of operations that we incur.

Our speaker this month will speak to the subject of "Controls Technology Shifts and ASHRAE Standards" – a subject that is sure to bring some questions to mind when considering how we might go about doing a better job of controlling our surroundings to achieve better efficiency and therefore lower operational costs.

Our March speaker is to be from our own Region II – Joel Primeau is the ASHRAE Region II Student Activities RVC – from Ottawa. Joel will present "Selling Green 101; The HVAC Engineer as a Salesman" and the benefits of integrated building design to owners and operators. We will be planning to have the meeting at or near the UWO, with dinner also at a location close to the UWO in order to accommodate easier access to the meeting for our student membership.

In April, we are arranging a Technical Tour the CASCO – London Facility – they have an interesting plant operation that includes a Co-Gen plant in house with 3 gas turbines that produce 13 MW of electricity as well as steam that is used in the production of corn syrup and other products.

We look forward to seeing everyone at the meeting this month – February 23rd at the Lamplighter Inn on Wellington Road South.

Eric Shaw
ASHRAE London Canada Chapter President

Upcoming Meetings & Events

Mon Mar 30/2009 Student Night
Selling Green 101; The HVAC Engineer as a Salesman
Joel Primeau - ASHRAE Region II Student Activities RVC

Wed Apr 22/2009 IAQ Satellite Broadcast/Webcast
Clean, Lean and Green, IAQ for Sustainable Buildings

Mon Apr 27/2009 Membership Night
Tour



Pete Edmiston
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Feb 23/2009 Meeting Topic

ASHRAE is adding wireless communications capabilities to the BACnet standards using ZigBee™ technology with BACnet messaging. ZigBee provides inherently reliable, ad hoc forming, self-healing wireless radio communication capabilities. This session will review and explain the concepts, illustrate the perceived and real radio interference issues, and show how it can provide for lower installation and lower life cycle costs for buildings owners.

Presentation Outline

- Introduction
- Wireless Technologies and BAS
- What is ZigBee, and how it works
- Wireless Interference and IT concerns
- Standards advantages
- Wireless advantages

Speakers Bio

JOSEPH H. KLOTZ, CEM
 Johnson Controls Product Sales Manager, Canada.



Joe is responsible for all JCI product sales in Canada, including all BAS, HVAC and refrigeration controls, VFD's, fire, security and DVN systems sold through JCI Branches and independent third party channels. Joe has been in the HVAC / BAS industry since 1981 as a facilities manager, public works director, international business manager, and as CEO of a BAS manufacturer. Joe graduated from the University of Alaska Fairbanks with a BS in Natural Resources Management. He is an ASHRAE member, and an Association of Energy Engineers member.

Jan 19/2009 Meeting Summary

MR. LESLIE SALTEL - Project Manager and the Training Coordinator as well as MR. PHILIP BREARTON - Operations Manager for the Building Science Group from Pinchin Environmental, Mississauga, Ontario spoke about the building and fire code requirements for fire alarm and smoke control systems.



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**NEW: Advanced Energy Design Guide for Small Warehouses and Self-Storage Buildings**

www.ashrae.org/freeaedg

Advanced energy savings guidance is now available for self-storage buildings and non-refrigerated warehouses up to 50,000 square feet. Warehouses make up the second-largest segment of commercial new construction. Yet these building types are largely overlooked with respect to energy savings potential. Use of ASHRAE's new guide can help engineers, architects, operators and owners easily achieve substantial energy savings.

The Advanced Energy Design Guide series specifies use of off-the-shelf technology to deliver energy-efficient buildings. The series is co-developed by ASHRAE, the American Institute of Architects, the Illuminating Engineering Society of North America, the U.S. Green Building Council, and the U.S. Department of Energy. The Metal Buildings Manufacturers Association also contributed to this guide. The Advanced Energy Design Guide for Small Warehouses and Self-Storage Buildings covers:

- Building envelopes
- Lighting and daylighting
- HVAC and service water heating
- Recommendations for specific climate zones

In order to promote contributions by its members and others to achieve energy savings, ASHRAE, along with its partners, is making the Warehouse guide available for free download at www.ashrae.org/freeaedg. The book version of the guide may be purchased through the same link.

Learn more about the Advanced Energy Design Guide series at www.ashrae.org/freeaedg

ASHRAE's 2009 Satellite Broadcast Focuses on IAQ for Sustainable Buildings - April 22, 2009, 1pm – 4pm EDT

What's lean and green and clean all over? Your next sustainable building project and its indoor air quality, thanks to ASHRAE's upcoming satellite broadcast. The program, "Clean, Lean, and Green – IAQ for Sustainable Buildings," will take place April 22 from 1 to 4 p.m. EDT.

The free broadcast, sponsored by ASHRAE's Chapter Technology Transfer Committee with support from the U.S. Environmental Protection Agency, will challenge the building community to use good IAQ practices to create a more sustainable built environment. The program will highlight guidance from the publication *IAQ Guide: Best Practices for Design, Construction, and Commissioning*, developed collaboratively by ASHRAE, AIA, BOMA, EPA, SMACNA and USGBC.

"Saving energy in buildings is paramount, and everyone in the buildings industry must do all they can to ensure sustainability in their projects," says Dave Shugars, Chair of the Satellite Broadcast committee. "But sustainability must never come at the expense of good indoor air quality. Proper operation and maintenance of buildings must be combined with enhanced IAQ practices to ensure healthy, productive indoor environments."

Participants who complete the participant reaction form online at www.ashrae.org/iaqbroadcast the week following the broadcast may be awarded three PDH credits.

The broadcast presenters and their topics are:

Martha Hewett, Director of Research, Center for Energy & Environment, Minneapolis, MN
Practical, Proven Strategies to Deliver Better IAQ

Hoy Bohanon, P.E., Owner and Manager of Bohanon Engineering, PLLC, Winston-Salem, NC
Improving Your IAQ and Reducing Your Energy Costs through HVAC Design

H.E. Barney Burroughs, Owner and CEO of Building Wellness Consultancy, Inc, Atlanta, GA
Keeping Buildings Clean: Avoiding and Building Control of Contaminants to Attain and Maintain IAQ Acceptability

George DuBose, Certified General Contractor, Liberty Building Forensics Group, Orlando, FL
Avoiding Costly IAQ Problems in the Building Envelope

John McFarland, P.E., Director of Engineered Systems, WorkingBuildings, LLC, Atlanta, GA
Integrating Good IAQ into the Design & Construction Process

For more information about the broadcast, please call (678) 539-1206, visit www.ashrae.org/iaqbroadcast or e-mail ashrae-satellitebroadcast@ashrae.org. Online registration for satellite site coordinators and Webcast viewers will begin March 2, and viewer registration will begin March 16. There is no fee for registration

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

**Consortium to Advise DOE on High-Performance Green Building Issues****ASHRAE leads formation**

The American Society of Heating, Refrigerating and Air-Conditioning Engineers, along with nine other leading organizations, is forming a consortium in response to the U.S. Department of Energy request for consortia to advise the department on high-performance building issues. The High-Performance Commercial Green Building Partnership (HPCGBP) brings together leading organizations from all aspects of the building community to provide guidance and technical leadership on key sustainability issues to the Department of Energy's Building Technologies Program.

"This partnership will ensure that the voices of the building industry are being heard," says Bill Harrison, ASHRAE president. "At a time when reducing energy consumption in buildings is paramount, the consortium gives leaders in the built environment and in those industries affecting construction a clear path to offer advice to the DOE on our goals, concerns and new technologies."

The American Society of Heating, Refrigerating and Air-Conditioning Engineers initiated formation of the Partnership and will serve as the Partnership's Secretariat. Other members of the HPCGBP's steering committee currently includes the Air-Conditioning, Heating and Refrigeration Institute (AHRI), American Institute of Architects (AIA), Alliance to Save Energy (ASE), Building Owners and Managers Association (BOMA), International Code Council (ICC), Illuminating Engineering Society of North America (IESNA), National Association of State Energy Officials (NASEO), National Electrical Manufacturers Association (NEMA) and the U.S. Green Building Council (USGBC).

The partnership intends to be recognized as a "Partnership Consortium" by the Department of Energy as requested in response to the Energy Independence and Security Act of 2007 Section 421. Section 421 is part of the formation of the Net-Zero Commercial Building Initiative which is intended to develop a research, development, and deployment strategy toward achieving net zero energy commercial buildings.

Partnership participants reflect all disciplines necessary to design and build high-performance commercial buildings, including:

- architects and engineers
- the development, construction, financial, and real estate industries
- building owners and operators
- academic and research organizations
- building code agencies and organizations
- independent high-performance green building associations or councils
- experts in indoor air quality and environmental factors
- experts in intelligent buildings and integrated building information systems;
- utility energy efficiency programs;
- manufacturers and providers of equipment
- public transportation industry experts
- nongovernmental energy efficiency organizations

For more information, please visit www.hpcgbp.org or contact Doug Read in ASHRAE's Washington Office at dread@ashrae.org or 202-833-1830. For media inquiries, please contact Wendy Angel at wangel@ashrae.org

ASHRAE Publishes Load Calculations Manual

Guidance to help designers improve the performance and efficiency of design as it relates to load calculations is contained in a new book from ASHRAE. Load Calculation Applications Manual focuses on two methods for calculating cooling loads in non-residential buildings – the heat balance method and the radiant time series method (RTSM).

Author Jeffrey Spitler noted that understanding these methods is crucial when answering three primary design questions – what is the required equipment size; how do the heating/cooling requirements vary spatially within the building; and what are the relative sizes of the various contributors to the heating/cooling load?

"Cooling load calculations are performed primarily to answer the first and second questions, providing a basis for specifying the required airflow to individual spaces within the building," Spitler said. "Answers to the third question help designers make choices to improve the performance or efficiency of the design."

The new manual features in-depth examples, as well as bringing together the latest data for building materials, windows, weather and internal heat gains, according to Spitler. The accompanying CD contains spreadsheets that compute the factors needed by the RSTM and compute cooling loads with the RSTM.

The manual is the fourth in a series of load calculation manuals published by ASHRAE, including the first and second editions of Cooling and Heating Load Calculation Manual as well as Cooling and Heating Load Calculation Principles.

The cost of the Load Calculations Applications Manual is \$119 (\$97, ASHRAE members).

To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit at www.ashrae.org/bookstore

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**ASHRAE Recognizes Outstanding HVAC&R Industry Achievements**

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) recognized 46 people for their contributions to ASHRAE and the HVAC&R industry at the Society's 2009 Winter Conference held here Jan. 24-28.

The ASHRAE Award for Distinguished Public Service recognizes distinguished public service by an ASHRAE member. The recipient is Kenneth M. Fulk, P.E., principal and chief mechanical engineer, Reed, Wells Benson and Co., Dallas, Texas. Fellow ASHRAE is a membership grade that recognizes distinction in the arts and sciences of environmental technology. The honor is earned through achievement as a researcher, designer, educator or engineering executive. The Society elevated 22 members to the grade of Fellow ASHRAE

The ASHRAE Technology Awards recognize outstanding achievements by members who have successfully applied innovative building designs, which incorporate ASHRAE standards for effective energy management and indoor air quality. Four projects received first-place ASHRAE Technology Awards:

Kenneth Sonmor, Ecovision Consulting, Montreal, Quebec, Canada, in the existing commercial buildings category for his retrofit of a 13-floor office tower, 4200 St. Laurent Office Tower, Montreal

Laurier Nichols, P.E., Dessau, Montreal, Quebec, Canada, in the new public assembly category for Centre Communautaire de Mistissini, Mistissini, Quebec, Canada

Thomas H. Durkin, P.E., Durkin and Villalta Partners Engineering, Indianapolis, Indiana, in the existing institutional buildings category for HVAC renovations at George Washington Carver Elementary School, Indianapolis

Jacques De Grace, Pageau Morel and Associates, Montreal, Quebec Canada, in the new institutional buildings category for the Normand-Maurice Building, Montreal

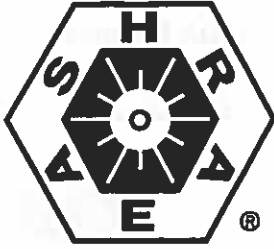
Also in the Technology Awards, Eric Kirkland, Smithgroup, Phoenix, Ariz., receives second place in the new institutional buildings category for the National Renewable Energy Laboratory Science and Technology Facility, Golden, Colorado.

The ASHRAE Student Design Project Competition challenged teams of students to create architectural design as well as select and design HVAC&R systems for a 60,000-square-foot community recreation center. First place in the HVAC system selection category is awarded to Alyssa Adams, Calvin Douglass, James Gawthrop Jr., Justin Herzing, Amy Leventry, Michael Smith and Gregory Smithmyer of The Pennsylvania State University, University Park, Pennsylvania. First place in the HVAC system design category goes to Wiroj Ekwongmunkong, Chaowanaphan Lekham, Pakorn Nontiwatwanich, Patarapol Puangkum and Supayos Suveepattananont of Chulalongkorn University, Bangkok, Thailand. First place in the architectural design category is awarded to Alexandra Gibson, Justina Jones, Bryan Quarles and Bazigha Tufail of the University of Kansas, Lawrence, Kansas.

The E.K. Campbell Award honors outstanding achievements by engineering educators. The recipient is Judi Steciak, Ph.D., P.E. The award honors an individual for outstanding service and achievement in teaching and is presented by the ASHRAE Life Members Club. Steciak is associate professor of mechanical engineering, University of Idaho-Boise.

The John F. James International Award is given to an ASHRAE member who has done the most to enhance the Society's international presence. The recipient is Prem Jain, Ph.D., Fellow ASHRAE, chairman and managing director, Spectral Services Consultants, New Delhi, India.

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.



AMERICAN SOCIETY OF HEATING,
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ENGINEERS INC.

LONDON CANADA CHAPTER #116

<http://LondonCanada.AshraeChapters.org>

Mon Mar 30/2009

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Newsletter

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TOPIC:

**Selling Green 101; The HVAC
Engineer as a Salesman**

JOEL PRIMEAU

Director of Sustainable Design
GENIVAR

Meeting - Mon MARCH 30/2009

THE WAVE

UNIVERSITY COMMUNITY CENTRE - Upper Floor

UNIVERSITY OF WESTERN ONTARIO

parking has been arrange in the Weldon Lot
see the attached map

5:15-Social

6:00-Dinner

7:15-Program





President's Message

Warmer weather and sunshine has finally started to replace the bitter cold and darkness; the large piles of snow have almost disappeared, and the Robins have returned; another indication that spring has finally arrived. It will not be long before we are dealing with the heat and humidity of summer. I am sure that you are all looking forward to those conditions...

I suppose that it will not be long until we start thinking of those "warmer weather activities" that we will be longing to get back to - Such as golfing.

The London ASHRAE Golf Tournament is scheduled for June 1st this year; there will be a few changes to the sponsorship arrangement, and also a lower limit (36 foursomes) maximum attendance - make sure to get your foursomes registered and paid for as soon as the opportunity permits.

This month's (March) Meeting Speaker is from our own ASHRAE Region II - Joel Primeau from Ottawa is the ASHRAE Region II Student Activities RVC.

Joel will present "Selling Green 101; The HVAC Engineer as a Salesman", and the benefits of Integrated Building Design to owners and operators.

We will be having the meeting at the University of Western Ontario - at The Wave Restaurant and Bar (on the UWO campus), in order to provide a change of venue, and also to accommodate easier access to the meeting for our student membership.

We were successful this month in finalizing and electing a Student Board of Governors for the London ASHRAE Student Chapter at Western - something that we have been working towards for a number of years now.

I would like to commend the hard work of all the people involved who were instrumental in seeing this process through to completion. We look forward to seeing an increased participation, and visibility by the UWO student membership.

Don't forget the ASHRAE Satellite broadcast on April 22nd - we still need to finalize our local chapter plans if we are to host a local group function here in London. We will discuss this at the meeting on the 30th of March.

In April, we will be taking a Technical Tour the CASCO - London Facility - they have an interesting plant operation that includes a Co-Gen facility in-house with 3 gas turbines that produce 13 MW of electricity, as well as steam that is used in the production of corn syrup and other products.

We look forward to seeing everyone at the meeting this month - March 30th at the Wave Restaurant at the University of Western Ontario.

Eric Shaw
ASHRAE London Canada Chapter President

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Upcoming Meetings & Events

Wed Apr 22/2009 IAQ Satellite Broadcast/Webcast
Clean, Lean and Green, IAQ for Sustainable Buildings

Mon Apr 27/2009 Membership Night
Tour - CASCO INC, Green Valley Rd London
with dinner at Four Points Sheraton Hotel
(more details to follow)

Mon June 1/2009 Annual Golf Tournament

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Mar 30/2009 Meeting Topic

Truly sustainable buildings can only be achieved when all disciplines are coordinated and pointed in the same direction. Validating the benefits of solutions against the impact on the total performance of the building is necessary throughout the entire design phase. Integrated Building Design or IBD is growing in popularity as builders and designers recognize that working in isolation has limited benefits, and true synergy is the only way to achieve affordable sustainability.

Mr. Primeau's presentation covers the basics of IBD as well as a description of the roles of the HVAC engineer, the HVAC supplier and mechanical trades in IBD. He'll also present concrete examples of successful integrated solutions

Speakers Bio

Joel Primeau is Director of Sustainable Design for GENIVAR. Based in Ottawa, he leads the efforts of his firm in the design of high performance, sustainable buildings. He graduated in mechanical engineering from the Royal Military College in Kingston, and after a brief career as an army engineer (in Winnipeg and Quebec City), he worked for over 15 years in the HVAC industry in consulting, facilities management and technical sales. He's a Past-President of the Ottawa Valley Chapter and he now holds the position of Regional Vice-Chair for Student Activities for Region II.

Joel's technical expertise has centered on energy efficiency and indoor air quality. Recently, he gravitated to the world of sustainability, LEED and Integrated Building Design. Joel was among the very first engineers to obtain ASHRAE's new High-performance Building Design Professional (HBDP) designation. He's currently developing an ASHRAE short course on IBD

Feb 23/2009 Meeting Summary

Joseph Kots, Project Manager from Johnson Controls discuss building controls and the newer wireless features that can be used. Joseph reviewed how the devices communicate and when they can be used to reduce wiring difficulties. There was also some discussion regarding the limitations and associated problems that could be encountered.

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IAQ Satellite Broadcast/Webcast April 22, 2009, 1pm – 4pm EDT

On Wednesday, April 22, 2009, ASHRAE's Chapter Technology Transfer Committee (CTTC) will present a satellite broadcast and simultaneous webcast on "Clean, Lean and Green – IAQ for Sustainable Buildings."

Online registration for site coordinators and webcast viewers begins March 2nd at www.ashrae.org/iaqbroadcast. Registration for satellite viewers begins March 16th. Information about the program and speakers is available at www.ashrae.org/iaqbroadcast.

Three PDH credits may be granted to those who view the program and then complete the Participant Reaction Form on our webpage following the broadcast.

Please watch for updates via ASHRAE Insights and www.ashrae.org.

ASHRAE '09: Engineering Tomorrow...Today

ATLANTA – ASHRAE is moving right along in engineering tomorrow today through a proposed building energy labeling program and a proposed high-performance building standard, according to leaders at the Society's 2009 Winter Conference.

More than 2,800 people attended the conference, held Jan. 24-28, Chicago. Also taking place in conjunction with the meeting was the Air-Conditioning, Heating, Refrigerating Exposition, which attracted 54,000 registered visitors and exhibitor personnel. The Show ranks as the second largest AHR Expo, just behind the 2006 Show in Chicago, in terms of number of exhibiting companies (1,911).

Centered on the theme Sustainable Urban Design: Engineering Tomorrow...Today, the ASHRAE conference offered a technical program with more than 100 sessions, 15 educational courses and social events. The meeting also featured more than 600 meetings of technical, standards and standing committees, developing guidance for the future of the industry and ASHRAE. "Through activities such as building energy labeling, the Advanced Energy Design Guide series and our net-zero-energy conference, ASHRAE members really are engineering tomorrow...today," ASHRAE President Bill Harrison said. "Chicago and its sustainable skyline offered a great opportunity to witness application of the technology shared at ASHRAE's technical program, educational sessions and committee meetings."

A major announcement was ASHRAE's proposed building energy labeling program, which the Society expects to launch at the 2009 Annual Conference in Louisville, Ky. Uniform metrics are vital to making buildings more energy efficient, according to Ron Jarnagin, chair of the committee overseeing the program, who updated attendees.

The ASHRAE program will include a method for rating the energy performance of buildings covered by Standard 90.1; qualification criteria for raters and assessors; provision of both Asset and Operational ratings to cover both design and operations; and a process for approving alternative methods. For more information on the proposal, visit www.ashrae.org/energylabeling.

In addition, the newly expanded committee responsible for Standard 189.1P, Design of High-Performance Green Buildings Except Low-Rise Residential Buildings, held its first meeting in Chicago. The committee approved an aggressive work plan with a goal to release a public review draft this spring.

The committee has been expanded to 39 members after a recent call for members to broaden the variety of industries, designers and code officials participating.

It also was announced that more than 154,000 copies of the four Advanced Energy Design Guides are in circulation in 180 countries. These guides show how to reduce the energy consumption of buildings 30 percent beyond Standard 90.1.

Also at the conference, President Harrison presented his State-of-the-Society address, updating attendees on his theme, Maintain to Sustain. The speech can be read at www.ashrae.org/harrison.

"There is an elephant in the room but it seems that hardly anyone knows it's there," he said. "Those in the building industry see and recognize it for the monstrosity it is, but most people don't know that they're essentially avoiding a huge energy issue. Everywhere you look, there's talk of increased fuel efficiency for vehicles, alternative fuels and compact fluorescent light bulbs. These are admirable efforts, and I would never want to detract from those. But the elephant in the corner – our world's existing building stock – constitutes roughly 30 to 40 percent of our primary energy use, easily larger than either transportation or industry. It's time we all started focusing on it."

Meeting highlights include the technical program, with its theme of Sustainable Urban Design, featuring more than 105 sessions. The most well-attended sessions dealt with Standard 189.1P, CO2 sensors and demand-controlled ventilation, building energy labeling, innovations in mechanical systems for high-rise buildings, commercial building re-tuning, lessons learned from solar technologies in recent times, air filtration for sustainable buildings, variable speed pump applications for energy savings, and building information modeling and performance analysis.

Also offered were the ASHRAE Learning Institute's four Professional Development Seminars and 11 short courses. The most popular courses dealt with exceeding Standard 90.1, chilled beams and proposed Standard 189.1P on high performance buildings. Top selling publications included Procedures for Commercial Building Energy Audits, ASHRAE GreenGuide: The Design, Construction and Operation of Sustainable Buildings, the Load Calculation Applications Manual and Standard 170-2008, Ventilation of Healthcare Facilities.

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

**ASHRAE Technology Awards Highlight Outstanding Building Projects**

CHICAGO – Designers of systems for a community center, a school, an office building and a governmental building are recognized by ASHRAE for incorporating elements of innovative building design. Recipients of the ASHRAE Technology Awards were recognized at the Society's 2009 Winter Conference being held this week in Chicago. The recipients have applied ASHRAE standards for effective energy management and indoor air quality. "ASHRAE Technology Awards are awarded for innovative HVAC&R designs that provide superior energy, economic, air quality and environmental performance through application of new technologies, new design concepts or by applying existing technologies in unusual ways," Bert Phillips, chair of the judging panel, said. "Innovation involves risk for owners and designers, requiring designers to work outside their comfort zone. Through the Technology Awards, ASHRAE recognizes innovation that works, honors the innovators and shares their design concepts with the broader HVAC&R community." Following are summaries of the winning projects.

4200 St. Laurent Office Tower

Kenneth Sonmor, Ecovision Consulting, Montreal, Quebec, Canada, receives first place in the existing commercial buildings category for his retrofit of a 13-floor office tower, 4200 St. Laurent Office Tower, Montreal.

Sonmor made several energy-saving proposals related to energy measurement systems/direct digital controls, mechanical systems and electrical measures as part of a detailed energy audit. Among the most innovative measures was a heat recovery apparatus that preheats entering fresh air. The system is made up of two different heat recovery units – a patent-pending thermosiphon heat exchanger that uses an environmentally friendly refrigerant to transfer heat from the exhaust air into the fresh air supplied by the fresh air unit. The second unit transfers the heat of the warm water from the fan-coil condensers into the fresh air supplied by fresh air unit. The natural gas savings are estimated at 62 percent, with electrical savings estimated at 16 percent of original electrical consumption and a reduction of 700 tons of CO₂. With estimated annual savings of around \$158,000, the project will pay itself back in a little over two years.

Centre Communautaire de Mistissini

Laurier Nichols, P.E., Dessau, Montreal, Quebec, Canada, receives first place in the new public assembly category for Centre Communautaire de Mistissini, Mistissini, Quebec, Canada.

The objective in building the community center was to design a building that would comply with sustainable development principles while providing high energy efficiency. The center houses an ice arena, which traditionally has high energy bills due to simultaneous heating and cooling load and high refrigeration needs. To reduce energy costs, Nichols selected an HVAC system comprised of heat pumps connected to a geothermal loop. Most arenas use chillers with standard condensers to produce and maintain the ice with extracted heat rejected through air condensers. In this project, rejected heat is reused as much as possible to meet the arena's heating load. The building reports an energy reduction of 62 percent using geothermal energy, heat recovery and other energy efficient equipment and strategies. The cost savings are some \$154,000 a year. Through use of a life-cycle cost approach, greenhouse gas emissions were reduced by 350 tons a year compared to an equivalent community center built to minimum requirements.

HVAC Renovations – George Washington Carver Elementary School

Thomas H. Durkin, P.E., Durkin and Villalta Partners Engineering, Indianapolis, Indiana, receives first place in the existing institutional buildings category for HVAC renovations at George Washington Carver Elementary School, Indianapolis.

When the school was first built in 1935, an underground stream was inadvertently intercepted. The ground water was seen as a liability due to power outages that disabled sump pumps and flooded the boiler room. In 2005, the school system added cooling to the building and the ground water became an asset, used as a geothermal heating-source and cooling sink. The ground water serves as condenser cooling water for a central chiller when air conditioning operates. When heat is needed, water flow through the same central chiller is switched with the ground water going to the evaporator and the building loop on the condenser side. The system uses technologies proven to be very effective – the heat recovery chiller and the geothermal heating and cooling. The new system is cooling for less than half the cost of conventional equipment, with heating about one quarter of the cost of the cold system. Utility bills for 2007-08 with air conditioning were 16 percent less than utility bills for 2005-06 without air conditioning. When corrected for the cost of energy from 2005 to 2008, the savings are 33 percent.

Normand-Maurice Building

Jacques De Grace, Pageau Morel and Associates, Montreal, Quebec Canada, receives first place in the new institutional buildings category for the Normand-Maurice Building, Montreal.

In 2002, Public Works and Government Services Canada ordered construction of a federal multi-occupant building offering offices, classrooms, warehouses, and an indoor firing range for the Royal Canadian Mounted Police, the Canadian Navy and two federal departments. The intent was to create a green building prototype that would be at least 40 percent more efficient than building meeting the country's minimum energy code. To achieve these goals, the building features several innovative measures, including underfloor displacement ventilation for improved ventilation effectiveness, a cascade ventilation principle supplying outside air to occupied spaces before transferring to secondary spaces, radiant slabs for improved thermal comfort and energy efficiency, a geothermal heat exchanger to reduce energy consumption, and an innovative solid thermal energy storage system to reduce first costs of the geothermal heat exchanger. The results show 40 percent more outside air supplied to occupied spaces as compared to ASHRAE Standard 62.1-2004; 51 percent regulated energy cost reduction compared to the 1997 national building code; 600 metric tons in avoided CO₂ emissions each year, and 31 percent reduction in potable water use.

Renewable Energy Laboratory Science and Technology Facility, Golden, Colorado.

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UWO Engineering Students establish an ASHRAE Student Chapter

After two years of planning and preparation, an ASHRAE Chapter has been established at the University of Western Ontario. Under the supervision of Walid Altahan, Laboratory Manager and Professor of the HVAC courses, the new Chapter will strive to explore sustainable design and promote ASHRAE at the University.

Preliminary discussion about the Chapter began in the fall of 2007. In the spring of 2008, Walid and former Student Activities Director Jamie Kruspel attended a conference at the home of ASHRAE in Atlanta, Georgia. Through different activities run by the Young Engineers in ASHRAE (YEA), the conference helped inspire and develop the plans for the UWO Student Chapter. Initial presentations to engineering students by current Student Activities Director Ibrahim Semhat began in the fall of 2008 and the formal petition, signed by fourteen students and Chapter 116 President Eric Shaw, was completed and submitted in early march 2009.

The Student members have elected their Board.

Nour Ali, President
Douglas Farough , President-Elect
Jordan Foster, Vice-President
A.T, Treasurer & Secretary

The goal of the chapter for the remainder of the current season will be to implement the bylaws provided by Society and to recruit new members at the University. This enthusiastic group will ensure the success of the Chapter in the new school year. Plans include the election of the new Board, recruitment of new members from incoming students and participation in the ASHRAE Student Design Project.

The creation of this chapter is a result of the hard work of Walid, Ibrahim, Jamie, and of course the students. As part of the monthly meeting program, Chapter 116 will host a Student Night March 30, 2009 at the Wave at UWO. Please join us as we celebrate and recognize our new Student Members. Free parking is available in the Weldon Lot.

EMPLOYERS: POST INTERNSHIPS FOR FREE!

ASHRAE offers an internship program for ASHRAE student members and employers (seeking student interns from engineering, architectural, or construction management programs).

The purpose of the program is to place ASHRAE student members in industry internships. Employers can post their available internships, and student members can research and apply to the companies directly for positions meeting their search criteria.

Why wait? Post your available internships now and be a part of developing the future leaders of the HVAC&R industry!

You can make a difference in the future of an ASHRAE student member.

More information can be found on the ASHRAE Society web site - Student Zone
<http://www.ashrae.org/students/page/955>

Questions?

Call Tarra Holman, Assistant Manager of Student Activities at 678-539-1212.

ASHRAE Position Document Outlines Commitment to Natural Refrigerants

ATLANTA – In a new position document, ASHRAE outlines its support for research, assessment and strategic growth in the use of natural refrigerants such as ammonia, carbon dioxide, hydrocarbons, air and water in refrigeration systems and technologies.

ASHRAE's Position Document on Natural Refrigerants can be read at www.ashrae.org/positiondocuments. As the industry searches for alternatives that have low global-warming potential, natural refrigerants are gaining increased interest. These refrigerants offer the potential to improve the environmental performance of refrigeration systems, according to ASHRAE.

"In light of the current global scenario, ASHRAE's response to the demand for environmental sustainability is to promote the development of systems that use natural refrigerants, safely, economically and efficiently," Bill Harrison, ASHRAE president, said.

With this position document, ASHRAE demonstrates its commitment to:

- the application of natural refrigerants
- the development of strategic relationships to advance natural refrigerants
- the consideration of natural refrigerants in existing and new guidelines, codes and standards
- the provision of guidance and education to policy makers and the public
- the creation and dissemination of methods and tools for environmental assessment of refrigeration systems
- the publication of technical information highlighting best practices from a safety, reliability and efficiency standpoint
- the promotion of authoritative information on natural refrigerants through seminars and publications



**ASHRAE MEETING
 PARKING ARRANGED
 IN WELDON LOT**

Meeting - Mon MARCH 30/2009

THE WAVE
UNIVERSITY COMMUNITY CENTRE - Upper Floor

UNIVERSITY OF WESTERN ONTARIO

parking has been arrange in the Weldon Lot
 see the attached map

5:15-Social 6:00-Dinner 7:15-Program

MAR '09





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

LONDON CANADA CHAPTER #116

<http://LondonCanada.AshraeChapters.org>

Mon Apr 27/2009

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TOPIC:

Tour - Power House and Dehumid System **CASCO INC** **1100 Green Valley Rd, London**



Meeting - Mon APRIL 27/2009

Plant Tour - 4:45pm

Meet at the Entrance

Diner after the tour at the
Four Points Sheraton



APR. '09



Upcoming Meeting - Plant Tour

A plant tour has been scheduled for the April meeting. Please meet at 4:45 at the Casco Inc, 1100 Green Valley Road, London

There will be short presentation followed by a tour of the power house by Gary Zions (Chief Engineer) and the dehumid system by Rod McIntosh (project manager for that work).

The plant includes a Co-Gen facility in-house with 3 gas turbines that produce 13 MW of electricity, as well as steam that is used in the production of corn syrup and other products.

PLEASE RSVP to Jamie Kruspel
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Upcoming Meeting
Mon June 1/2009 Annual Golf Tournament
Golf Registration

There just a few group openings left - please contact Hugh Palser (email: hpalser@palserent.com fax 519-471-1049) if you have not indicated that you will have a group. Hugh would also appreciate any donations to the prize table.

Golf Hole Sponsors

In place of a single event sponsor, this year companies can sponsor a hole and help ASHRAE Research Canada. Please forward \$200.00 per hole. There is a sponsor form on the chapter web site or for more information contact Scott Edmunds 519-667-4120 <sedmunds@uniongas.com>.

All groups and sponsors must have payments to Hugh Palser before the event.

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Student Sponsors

The ASHRAE London Student Chapter needs sponsors to help offset costs for the student meets and their registrations.

If you are able to assist in sponsoring a student, please contact:
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Chapter Elections

The ASHRAE London chapter needs some people to fill openings in the board of directors and chair positions. Elections for the 2009-2010 year are now open. If you are interested in a position, can help out in any way, or wish to nominate someone, please contact a chapter executive. Chapter elections will be open until May 13/2009

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March 30/2009 Meeting Summary

The chapter meeting was held at UWO to allow the engineering students to attend the meeting. The student chapter has been restarted due to the efforts of Ibrahim Simhat

Joel Primeau visited from Ottawa where he is the Director of Sustainable Design for GENIVAR

Joel spoke on some of the issues involved with energy efficient design of buildings including to requirements for coordination between the various disciplines and problem of delivery of engineering services. Joel used some charts to present the time lines when dealing with architectural services as compared to engineering services that require some initial calculations before anything can be presented.

President's Message:

As April moves to a close, and the warm weather is threatening; many challenges are beginning to present themselves to us all.

General Motors and Chrysler Corp. are fighting for their lives, and as each day passes, appear to be closer to filing for bankruptcy.

The financial markets are on pins and needles wondering what will happen next. The automotive industry is coming to an abrupt change in the road that it is on – hopefully a good long term solution will come out of all of the turmoil.

The ASHRAE Satellite Broadcast ran as planned on Wednesday April 22nd – The London Chapter (with the assistance of the UWO) hosted the broadcast locally in London with a small group of local members and several students.

The topic was "Clean, Lean, and Green – IAQ for Sustainable Buildings," which focused on the application of ASHRAE Standard 62, and ASHRAE 90.1, as well as highlighting the new and soon to be released Design Guide – "IAQ Guide: Best Practices for Design, Construction, and Commissioning" which will be available through the ASHRAE Bookstore in June.

Our Technical Tour of the London CASCO Plant Co-Gen Facility and the AIR Drier Process System will go ahead on Monday evening as planned – we will meet at 4:45pm at CASCO, and will host a dinner at the Four Points Sheraton Hotel on Wellington Road afterwards.

The Golf Tournament planned for June 1st is filling up – there are only a few foursomes left, and a few hole sponsors are still required. For more information, please contact Hugh Palser at Palser Enterprises at (519) 471-9382.

The local chapter is looking for some new faces to join the Board of Governors – a need for the presence and participation of some new people with fresh ideas to help direct and lead the chapter in the years to come.

Anyone who would be interested in participating, or assisting with one of the positions on the board should speak to one of the executive and indicate your interest.

We look forward to seeing you all at the tour, and at the golf tournament in June.

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 ASHRAE London Canada Chapter President

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**Advanced Energy Design for Small Office Buildings**

ASHRAE eLearning is an optimal way to train yourself and your staff while earning PDHs and avoiding travel costs. ASHRAE's newest eLearning course is Advanced Energy Design for Small Office Buildings. The course explains the design concepts, strategies, and recommendations for constructing energy-efficient small office buildings. It is based on ASHRAE's Advanced Energy Design Guides which are intended to achieve 30% energy savings over the code requirements of ASHRAE/IESNA Standard 90.1-1999.

The course is 100% online, and because it is on-demand, instruction is available when you are available. The course can be taken in one sitting or through return visits to the ASHRAE eLearning website.

ASHRAE Publishes Updated Guidance for Buildings in Hot and Humid Climates

Expanded and revised guidance on keeping heat and humidity out of buildings in hot and humid climates is contained in a new book from ASHRAE.

The second edition of The ASHRAE Guide for Buildings in Hot and Humid Climates, is expanded from 124 to 316 pages and based on years of questions, comments and suggestions from practicing architects, engineers and building managers who work in hot and humid climates, according to author Lew Harriman.

The book includes four new chapters to guide architectural design toward reduced energy consumption, reduced mold risk and lower-cost mechanical systems. The HVAC&R design section has also been expanded. Six new chapters help system designers quantify and reduce cooling and dehumidification loads, design more economical ventilation systems and save more than 25 percent of annual HVAC&R energy through low-cost sealing of air distribution components. Suggestions for contractors are also provided to reduce mold risk and prevent scheduling problems through simple improvements to jobsite practices as well as through modern drying technology.

Chapter summaries allow building professionals to quickly understand the big picture issues and to understand the logic behind suggested best practices for hot and humid climates. The book also provides specific, actionable suggestions for implementing ASHRAE standards for comfort, ventilation and energy efficiency in parts of the world where high heat and humidity can occur at any time of the year.

The cost of The ASHRAE Guide for Buildings in Hot and Humid Climates, expanded second edition, is \$116, non-members (\$99, ASHRAE members).

To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit at www.ashrae.org/bookstore.

ASHRAE, GBI Pledge to Collaborate to Promote Building Sustainability

Through a new memorandum of understanding, ASHRAE and the Green Building Initiative (GBI) will work together to accelerate the adoption of sustainability principles in the built environment.

The agreement was approved by ASHRAE and by the GBI Board of Directors during their winter meetings. "ASHRAE supports a wide variety of programs that encourage the sustainable design and operation of buildings," Bill Harrison, ASHRAE president, said. "Tools such as GBI's Green Globes rating system help to provide metrics through which building owners and operators can gauge a building's sustainability performance. Pushing forward the built environment to improve sustainability will require a collaborative effort among a myriad of organizations. ASHRAE looks forward to collaborating with GBI and other organizations."

"The GBI is delighted to finalize this agreement and begin working with ASHRAE on our shared goal of increasing sustainable building principles," said Ward Hubbell, President of the GBI. "Improving the built environment is an enormous task and we can't afford to just focus on new construction. An important aspect of this agreement is that both organizations will work to promote the importance using actual performance data to ensure that our buildings are performing in an efficient and environmentally-friendly manner."

Specifically, the agreement calls for the two groups to

- Promote the design, construction and operation of buildings that are energy-efficient, healthier and environmentally responsible by, among other things, providing education and training;
- Provide access to the Green Globes tool;
- Promote the link between sustainable design and actual performance outcomes;
- Encourage and/or undertake research that identifies specific economic and environmental benefits of green building practices;
- Support and promote green building standards, certification programs and rating systems.

ABOUT THE GREEN BUILDING INITIATIVE: The mission of the Green Building Initiative is to accelerate the adoption of building practices that result in energy-efficient, healthier and environmentally sustainable buildings by promoting credible and practical green building approaches. A not-for-profit education initiative, the GBI is supported by a broad cross section of organizations and individuals with an interest in residential and commercial construction. For more information on the Green Building Initiative, please visit www.thegbi.org.

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

**Economic Stimulus Bill Reinforces Importance of Energy-Saving Standard 90.1**

In the economic stimulus package just signed into law by President Obama, ANSI/ASHRAE/IESNA Standard 90.1-2007 and its energy-saving features are recognized through special funding measures.

For states to receive additional funding from the \$16.8 billion allotted to the Department of Energy, Office of Energy Efficiency and Renewable Energy, governors would be required to work toward implementation of a building energy code at least as stringent as Standard 90.1-2007 and to develop a plan for achieving 90 percent compliance with the code, including provisions for training and enforcement programs.

"For more than 30 years, Standard 90.1 has been one of the building industry's most important benchmarks for energy efficiency," says ASHRAE President Bill Harrison. "Its inclusion in the economic stimulus package demonstrates not only its importance in the building industry, but the importance and economic potential of saving energy and promoting energy-efficient technologies."

Standard 90.1 provides minimum requirements for the energy-efficient design of buildings in the United States, except low-rise residential buildings. Written during the 1970s energy crisis, ASHRAE Standard 90.1 first was published in 1975 as an effort to cut energy use in buildings. The 2004 version of the standard is referenced in the U.S. Energy Policy Act, which requires states to adopt commercial building codes that meet or exceed the standard's requirements.

ASHRAE has set a goal of making the standard 30 percent more stringent over the 2004 version by the 2010 publication.

The stimulus package, the American Recovery and Reinvestment Act, focuses on economic stimulus through both tax credits and public-sector spending, with a heavy focus on infrastructure and energy. Several provisions are of interest to and could bring new opportunities to the building sector, including:

Tax credits for the production of renewable energy are extended until at least 2012

Research expenses associated with renewables, conservation, and carbon capture and sequestration could result in higher credits in 2009 and 2010

The Department of Energy is authorized to provide grants up to 30% of the cost of installation of items such as fuel cells, solar, small wind, geothermal heatpumps, and combined heat and power systems

Department of Energy, Energy Efficiency and Renewable Energy receiving \$21.4 billion for research, weatherization assistance, grants and other programs

Department of Labor receiving \$750 million for job training, with significant focus on emerging industry sectors including energy efficiency and renewable energy

Federal agencies are receiving considerable funds for retrofitting and upgrading existing facilities to meet federal energy and water use requirements and alleviate any maintenance backlogs

For more information on ASHRAE government affairs, please visit www.ashrae.org/advocacy.

ASHRAE/AIRAH Issue Joint Resolution on Climate Change

Use of renewable energy, education of the building industry and responsible refrigerant use are encouraged in a new joint statement on climate change issue by ASHRAE and the Australian Institute of Refrigeration Air Conditioning and Heating (AIRAH).

"The use of HVAC&R technologies is an essential element of contemporary life," Bill Harrison, ASHRAE president, said.

"Yet, HVAC&R systems contribute to greenhouse gas releases through energy-related effects and through the effects of refrigerant losses. ASHRAE and AIRAH are emphasizing a variety of measures to decrease emissions associated with energy use and its effect on global climate."

"I see this joint statement as an acknowledgement of the role we affiliated organizations must play to address the complex challenges we collectively face," John Bosci, AIRAH president, said. "AIRAH is committed to creating awareness and acceptance through further education and to the promotion of sustainable building practices and the responsible development of alternative technologies within the Australian market."

By signing the statement, ASHRAE and AIRAH resolve to:

- Support research and development activities designed to reduce buildings' energy use and greenhouse gas emissions
- Educate building owners, operators, users, designers, and constructors on the importance of building energy efficiency, corresponding climate change impact, and proper operations and maintenance measures
- Encourage the supply of renewable energy into buildings and building engineering systems when economically feasible
- Develop and implement sustainable building designs, materials, components, systems, and processes that minimize environmental impacts, including climate change, while maintaining indoor environmental quality
- Provide advice, information, and assistance to governments and other influential bodies on energy efficiency and climate change emissions in both new and existing buildings
- Encourage responsible refrigerant use, including emissions reduction strategies and technologies and encourage development of energy efficient refrigerants with low or zero global warming potential
- Support the development and implementation of standards, building codes, incentive programs, and voluntary initiatives aimed at reducing building environmental impacts
- Implement holistic and coordinated approaches to identifying and resolving environmental issues at all stages of a building's life cycle—from conception, design, and construction through operation, maintenance, refurbishment, and deconstruction

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.



BACnet Gets Down to Business at ASHRAE Conference

From a new standard to activities taking place internationally, BACnet continues to seek improvement in tying together building equipment and systems manufactured by different companies.

ASHRAE recently published the newest version of Standard 135-2008, BACnet® – A Data Communication Protocol for Building Automation and Control Networks. This new publication includes seven addenda that add BACnet/Web services and new objects for Event Log, Trend Log Multiple, Load Control, and Access Door.

Moving forward, the committee has 11 addenda in process for the 2008 version. In addition, addendum q for ASHRAE 135-2008 has been approved for publication and is available in the standards section of ASHRAE.org. Made in cooperation with members of the ZigBee Alliance, the new datalink specification allows mains-powered BACnet devices to communicate over the ZigBee wireless mesh network, opening up new installation options and furthering BACnet's reach into all areas of facility monitoring and control, according to Dave Robin, BACnet chair.

At ASHRAE's recent 2009 Winter Conference, the BACnet committee heard an update on BACnet activities from Russia. The BACnet Interest Group, Russia (BIG-RU) was recently asked by the Moscow State Construction University to prepare a BACnet training course at the university, which will become a required part of the curriculum.

"We estimate that at least 100 students will go through the course every year, and we expect that at least 50 of those will go into the industry experienced with BACnet", said Andrey Golovin, leader of the BIG-RU.

The committee also heard about activities in Japan. "A proposed green project of the graduate school/faculty of the University of Tokyo will establish an intelligent facility management system with advanced ICT technologies, and is planning an integrated BACS to research how to reduce energy consumption to 30 percent by 2012 and 50 percent by 2030 at the University of Tokyo," reported Takeji Toyoda, the liaison to the BACnet committee from the Institute of Electrical Installation Engineers, Japan (IEIEJ).

Robin said the committee is expecting a busy spring public review period, with 11 addenda proposed for standard 135 and four for standard 135.1.

After an extended period to allow for some actual implementations to be prototyped, the BACnet Network Security architecture will go out for its fourth public review as addendum g, bringing state-of-the-art digital signatures and encryption to BACnet, enabling security-critical applications to use a standard protocol.

Developed in collaboration with the IEIEJ, the Global Group Object will go out for its second public review in addendum p. This extends the concept of the Group Object to monitor and report on changes in data collected from multiple external devices. An enhanced Lighting Output Object will begin its third public review in addendum i, and a few additions made to the XML Data Formats will cause it to go out for its second public review in addendum t.

A new set of "Value Objects", proposed in addendum w, complete the data representation capabilities of BACnet. New objects like String Value Object and Unsigned Value Object enable more opportunities to present data in a standard, rather than proprietary, manner, according to Robin. In addition, the new Time Value Object enables the definition of an extension to BACnet scheduling for non-absolute times, allowing schedules to reference calculated times like sunrise/sunset.

ASHRAE Provides Federal Recovery Act Resources

With U.S. economic recovery stimulus funds coming down the pipeline, state and local governments have a once-in-a-lifetime opportunity to upgrade and modernize the nation's infrastructure.

To encourage investment in projects with the greatest long-term impact, ASHRAE has put together resources to help its members engage decision-makers in identifying and planning projects in their areas. Two resource packages related to recovery funding and energy efficiency in schools are being distributed to ASHRAE's 124 chapters in the United States, encompassing some 35,000 members. The packages and supporting information can be found at www.ashrae.org/recovery.

"The American Recovery and Reinvestment Act provides significant funding to federal agencies and state and local governments for the improvement of government-owned infrastructure," Bill Harrison, ASHRAE president, said. "ASHRAE members have the knowledge, experience and resources to assist state and local governments in determining projects with the greatest value and return on investment."

An ASHRAE Member's Guide to Recovery Funding provides information on the American Recovery and Reinvestment Act, areas of funding, resources available and tips for engaging state and local decision makers.

Energy Efficiency in Schools, Smart Investments of Recovery Funding provides information targeted to school administrators and state recovery fund managers to encourage investment in energy efficient schools



ASHRAE Grant

Plugged In! Experience Seeks to Raise Awareness on Plug Loads

From computers to popcorn poppers to hair dryers, energy use in dormitories often runs rampant due an overload of appliances.

To help students gain a better understanding of how being plugged in impacts building energy use, ASHRAE is funding a teaching project for students at the University of Oregon.

The students will be challenged to develop a better understanding of personal and broad-scale energy consumption and how appliance selection and behavior modification can impact energy use through a hands-on experience, known as Plugged In!. The project was one of 13 grants funded by ASHRAE through its senior undergraduate project grant program.

The grants, totaling some \$65,000, are awarded by ASHRAE to colleges and universities worldwide to promote the study and teaching of HVAC&R, encouraging undergraduate students to pursue related careers. The grants are used to design and construct projects. For more information, visit ASHRAE.org/studentzone.

As part of Plugged In!, students will "shop" for electrical appliances, determine the plug loads of each appliance and calculate their short-term and long-term energy implications. They also will develop a real-time monitoring and feedback loop of a dormitory, as part of their goal of modifying occupant behavior. The students will develop a Web interface using energy use animations to reflect the amount of actual energy use of the dorm.

"Students living in dorms across campus will see first-hand how their behavior impacts building energy use and how energy use impacts the environment," said professor Alison Kwok. "Estimates show that plug loads can range from 10 to 25 percent of total building energy use. We want to show our students how energy use can influence decisions about building design and how their use of appliances can impact power use for the entire campus."

Other ASHRAE grant recipients are:

- University of Colorado at Boulder, Developing a Low-Cost Modular Building Integrated Photovoltaic-Thermal Collector for Electricity, Hot Water and Pre-heated Ventilation Air
- Purdue University (team 1), Heat Recovery Demonstrators
- University of Central Florida, Design Optimization of a Solar Thermal System with Integrated storage
- Lawrence Technological University, Monitor and Simulate Two Existing, High Performance Buildings to Achieve and Maintain Sustainable Operation
- Boise State University, Solar Collector Panel Test Stand Senior Design Team
- The University of Kansas, Working Model of a Tall Building's HVAC&R Systems
- Florida International University, GSHP-Solar
- University of Alabama at Birmingham, Variable Speed Pumping System
- Cairo University, Solar Hydrogen Fuel Cell Water Heater Educational Stand – Design and Fabrication
- University of Washington – Seattle, Assessing the Natural Ventilation in Classrooms and Laboratories—Implementing Class Projects
- San Francisco State University (SFSU), Air Conditioning Laboratory Unit for Undergraduate Engineering Education
- University of Illinois at Urbana-Champaign, Design and Construction of a Solar PV Demonstration System for Laboratory Use and Public Education

ASHRAE Launches Commissioning Certification Program

Just as the commissioning process helps buildings and their systems operate optimally, ASHRAE's newest certification recognizes those with optimal knowledge of the entire building commissioning process. The program is ideal for individuals given a commissioning role who may not have a building HVAC&R background.

ASHRAE's Commissioning Process Management Professional launches in June at the Society's 2009 Annual Conference in Louisville, Ky. The program helps building owners, developers, operators and others recognize individuals capable of assuring that building systems and equipment are designed, installed, tested, operated and maintained according to their operational needs.

"As the standard setter for sustainable building performance, ASHRAE's certification program recognizes that people who manage the commissioning process need to have people- and project-management skills in addition to a level of understanding of building design, construction, operations and maintenance," Bill Harrison, ASHRAE president, said. "This is what distinguishes the commissioning program from other HVAC commissioning certifications."

Developed with input from APPA, BCA, IESNA, NEBB, SMACNA, TABB and the University of Wisconsin-Madison, the program is the fourth in ASHRAE's suite of certification offerings. The others focus on healthcare design, high-performance building design, and operation and maintenance.

Individuals must meet certain eligibility qualifications to take the exam. For more information, an exam content outline and available resources for exam preparation, please visit www.ashrae.org/certification. The fee for the exam is \$207.50 before June 5 (\$147, ASHRAE members).

**Stimulus Funding for Schools Provides Energy Efficiency Opportunities****ASHRAE Advanced Energy Design Guide Provides Simple Tool**

As school boards and superintendents develop programs to utilize recent U.S. economic recovery stimulus funds, projects focused on improving energy efficiency can result in long-term savings for school districts. Guidance from The American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) can help schools earn an A+ in achieving that efficiency.

The American Recovery and Reinvestment Act (ARRA) signed by President Obama on February 17, 2009, provides significant funding and financing opportunities to modernize, renovate and repair public schools. Under the "State Fiscal Stabilization Fund" up to \$48.3 billion can be allocated to schools. An additional \$25 billion in eligible bonds also have been authorized. ASHRAE and other leading building industry organizations have developed the Advanced Energy Design Guide for K-12 School Buildings. The guide provides recommendations for achieving 30 percent energy savings over the minimum code requirements of ANSI/ASHRAE/IESNA Standard 90.1-1999. Estimates show that a full 16 percent of schools districts' controllable costs is spent on energy.

"Beyond energy savings, by implementing the recommendations, schools may benefit from an improved learning environment, reduced operating costs, reduced environmental and climate impacts, and enhanced teaching opportunities on the environment," ASHRAE President Bill Harrison said.

The recommendations in the guide allow those involved in designing or constructing school buildings to easily achieve advanced levels of energy savings without having to resort to detailed calculations or analysis. All of the energy-saving recommendations for each of the eight U.S. climate zones are summarized in a single table. Additional recommendations point to other opportunities to incorporate greater savings into the design of the building.

More than 14,000 free copies of the Advanced Energy Design Guide for K-12 School Buildings were sent to school systems in the United States last spring.

Details on the stimulus funding for educational facilities can be found on the Department of Education's Recovery page (<http://www.ed.gov/policy/gen/leg/recovery>).

Copies of the Advanced Energy Design Guide for K-12 School Buildings are available for free download at www.ashrae.org/freedaedg or print copies may be ordered from the ASHRAE Bookstore at www.ashrae.org.

In a Down Economy, an Uplifting Conference: ASHRAE 2009 Annual Conference in Louisville

Program on optimal indoor air quality provides essential skills and networking

In the current economic environment, networking and business development opportunities are more important than ever. With its nearly 100 educational sessions, the technical program at ASHRAE's Annual Conference provides the perfect environment for developing new skills and contacts.

"Why attend the ASHRAE Annual Meeting in Louisville? Professional preservation is the purely selfish reason to attend," says Kirk Mescher, chair of ASHRAE's Conferences and Expositions Committee. "When working in HVAC&R, you need to be well educated on upcoming changes and new codes and standards, all of which are covered in the technical program. Those who develop the Handbooks and standards are there at the meeting; you should be too."

With a focus on optimal indoor air quality, the technical program runs June 21-24, at the Galt House Hotel in Louisville, Ky., with sessions on nearly every aspect of HVAC&R, from staying current with design practices to commissioning and good engineering business practices. New this year is the full range of programs scheduled in the buildings track. Complete program details are available at www.ashrae.org/louisville.

The technical program features a large building systems track that begins with an introduction to large buildings and addresses sustainable large building design, energy modeling, smoke control and specifically indoor sports facilities, entertainment venues, and museums and libraries. Other tracks with multiple programs include systems and equipment, indoor air quality, energy and sustainability.

The program includes 60 seminars, 15 forums, more than 90 papers presented, and a technical plenary on Sunday that outlines the potential needed adaptation of cities and buildings for climate change. Sue Roaf, Ph.D., Heriot-Watt University, Edinburgh, Scotland, speaks about the concept of the low-carbon building and how we can make them happen while we redesign the built environment for the future.

Sessions of interest include:

Seminar 7, ASHRAE Members' Survival Guide: Keeping Your Business Alive and Well During Difficult Economic Times

Seminar 8, Case Studies of Moisture Management Issues in Litigation

Seminar 31, Contracts?? (Ugh! Boring!) A Comparison of the AIA 2007 and AGC ConsensusDocs Contract Forms

Seminar 2, Energy Use and Efficiency in Healthcare Facilities

Seminar 39, Defining the Contribution of Fans in Achieving the Goals of ASHRAE Standard 90.1

Seminar 14, Balancing Indoor Air Quality and Energy Conservation/Efficiency Objectives in Schools

Transactions 17, Issues with Ventilation and Indoor Air Quality in ASHRAE Residential Standards

Seminar 28, Real World BIM for the HVAC Engineer

Seminar 54, Optimal Air Quality: Control of Ozone

Seminar 37, Cost Impacts of ASHRAE's New IAQ Guide

Seminar 59, Using Cx to Improve Sustainability and IAQ of Existing Buildings

For more information on ASHRAE's 2009 Annual Conference, please visit www.ashrae.org/louisville. Conference registration is \$670 (\$505 for members).



AMERICAN SOCIETY OF HEATING,
REFRIGERATION AND AIR CONDITIONING
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LONDON CANADA CHAPTER #116

<http://LondonCanada.AshraeChapters.org>

Mon June 1/2009

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Mon June 1/2009

ASHRAE London Golf Tournament

FOREST CITY NATIONAL

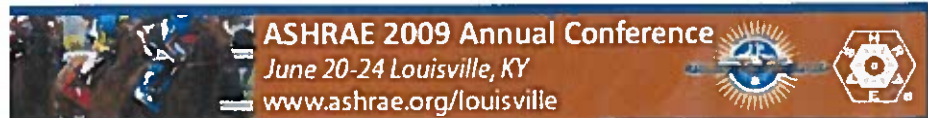
16540 Robin Hill Road

London

Diner after the tournament



JUN '09





President's Message:

The Annual ASHRAE London Golf Tournament approaches – June 1st is just around the corner.

Only one more week to secure a place in the big day, as there were only a few foursomes left available as of the Board of Governors Meeting last week. Make sure to get your registration and payment to Hugh Palser at Palser Enterprises. To those of you that already have, we thank you.

This year's tournament promises to be another good one to attend. Forest City National Golf Club is always a very well kept course, and makes it an enjoyable day for all.

Our Chapter has had a very successful year this year – with the creation of the UWO Student Branch, and our meeting attendance has shown some good growth.

The local economy has taken some hits, but our local industry has generally held its own, and there appears to be some good growth on the horizon.

Despite all of the "doom & gloom", our chapter membership numbers have been hanging in there, and we would like to see that trend continue.

Our monthly meetings have been held at the Lamplighter Inn on Wellington Road for the past few years, and we have entertained suggestions requesting that we should maybe look at other venues for our meetings to be held at.

We would welcome any and all suggestions for prospective locations to consider for the 2009/2010 program – starting in September.

We are looking to develop a stable long term picture for our local ASHRAE Chapter on the Board of Governors, and are looking for some new faces to slowly work their way onto the Chapter Executive.

Initially, the new people would be expected to assist the current chair people in their respective areas, and to help to transition into the different chair positions in another year's time as the current board members move up into their next positions.

With a few new faces, the chapter will flourish and grow, and our future as an organization will be assured. Anyone interesting in participating in the future of the ASHRAE London Chapter should speak to or feel free to contact anyone on the executive.

Looking forward to seeing you all out at our Golf Tournament on June 1st

Eric Shaw
 ASHRAE London Canada Chapter President



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Student Sponsorship

ASHRAE London has a tradition of supporting students interested in attending one of our two student nights held annually. A special thanks to those members companies who supported a student in both our November and March student nights. These member companies include:

- Aquatech Sales
- Baymar Supply Ltd.
- Chorley & Bisset Ltd. (2)
- Durell Controls
- EH Price Ltd
- HTS Engineering (2)
- Johnson Controls (2)
- Pollard Engineering Inc
- Somers Environmental
- Trane Sales Agency (London)
- Union Gas Ltd (2)

Due to an extraordinarily large turnout to both events we are still looking for corporate sponsors. Those interested in sponsoring a student to support the local chapter are encouraged to contact Jack Maynard.

Jack Maynard

ASHRAE London Chapter Treasurer

April 27/2009 Meeting Summary

ASHRAE London has a tour of the facilities at Casco Inc. including the 3 cogen units used to provide electrical power and steam to the plant. Recently installed equipment include dehumidification hvac equipment to remove moisture to material to prepare it for manufacturing.



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ASHRAE 2009 Annual Conference



[www.ashrae.org
/louisville.](http://www.ashrae.org/louisville)



June 20-24
Louisville
Kentucky



ASHRAE Rolls into Louisville for 2009 Annual Conference

The pounding hoof beats into the final turn. Ice tinkles in the glass of a frosted mint julep. The plaintive echoes of rivercraft are heard as they signal the drawbridge. These are the sights and sounds of Louisville....the home of ASHRAE's 2009 Annual Conference.

"Rolling on the River serves as the conference theme and echoes ASHRAE's mission," Bill Harrison, ASHRAE president, said. "A steady flow of rapidly advancing standards and research, both complimented by our technical and educational program, will enhance ASHRAE's ability to drive the ongoing transformation to a more sustainable built environment."

The ASHRAE Annual Conference takes place June 20-24. To register or for more information, visit www.ashrae.org/louisville. Most events take place at the waterfront Galt House Hotel.

The ASHRAE technical program, with nearly 100 sessions, focuses on optimal indoor air quality. It begins Sunday, June 21, and ends Wednesday, June 24, with all sessions at the Galt House. Complete program details will soon be available at www.ashrae.org/louisville. The technical program features a large building systems track that begins with an introduction to large buildings and addresses sustainable large building design, energy modeling, smoke control and specifically indoor sports facilities, entertainment venues, and museums and libraries. Other tracks with multiple programs include systems and equipment, indoor air quality, exergy and sustain ability.

The conference keynote speaker is Susan Roaf, professor of architectural engineering at Heriot Watt University, Edinburgh. Roaf's thought-provoking comments include a range of building- and climate-related risks that individuals will face in the future along with a range of actions that homeowners and legislators can take to future-proof lifestyles against the growing challenges of the 21st century. She speaks at the Plenary Session on Saturday and the technical plenary on Sunday.

The ASHRAE Learning Institute offers two full-day professional development seminars and four half-day short courses, focusing on a range of HVAC&R related topics. New sessions include Data Center Energy Efficiency and Air-to-Air Energy Recovery Systems. ASHRAE's Standard 90.1 course has been revamped to focus on using the standard to meet LEED and federal tax credit requirements.

ASHRAE also launches its newest certification program – Commissioning Process Management Professional. The certification recognizes that those who manage the commissioning process need to have people- and project-management skills in addition to knowledge of building design, construction, operations and maintenance. For more information, visit www.ashrae.org/cpmp.

ASHRAE technical tours offer an inside view of how technology developed by members is practically applied in building environments. Tours include the central steam and chilled water plant at Louisville Medical Center, an HVAC system for a Class 100/1000 cleanroom at the University of Louisville, the CMTA Corporate Headquarters Building, and the Scribner Place YMCA and Aquatic Center.

In addition, ASHRAE President-Elect Gordon Holness, P.E., Fellow ASHRAE, Life Member, a consulting engineer and chairman emeritus, Albert Kahn Associates Inc., Detroit, Mich., takes office as 2008-09 president. Holness presents his inaugural address at the president's luncheon on Monday, June 22, focused on energy efficiency in existing buildings.

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.



ASHRAE Funds Research into Keeping Kitchen Staff Cool and Comfortable

ATLANTA – As the old saying goes, “if you can’t stand the heat, get out of the kitchen.” But for the 12.2 million people in the United States employed in the restaurant industry, getting out of the kitchen is not an option.

Seeking to provide a cool and comfortable working environment for those kitchen workers, ASHRAE is funding research in thermal comfort in commercial kitchens.

A 2005 report by the Restaurant Opportunities Center of New York and the New York City Restaurant Industry Coalition found that “nearly half of the 530 workers surveyed reported that it gets unsafely hot in the kitchen where they work.”

“Understanding thermal comfort in commercial kitchens is paramount to understanding and providing a controlled and comfortable environment for kitchen workers,” said Greg Duchane, a member of ASHRAE’s technical committee 5.10 on kitchen ventilation that is overseeing the project and manager of retail market sales, Trane Commercial Systems. “This research can be used by engineers and kitchen consultants in designing HVAC systems and in the operation of restaurants. It will give us more accurate understanding of employee comfort and how employees are impacted by heat loads.”

The research will include walk-in surveys and on-site data collections of operational commercial kitchens in selected cities across the United States.

ASHRAE is accepting proposals on this and 16 other proposed research projects. Submissions are due May 18, 2009. For more information, visit www.ashrae.org/research.

The projects are scheduled to begin Sept. 1, 2009. Projects are:

- 1339-RFP, Selection of Desiccant Equipment at Altitude, sponsoring technical committee: TC 8.12, Desiccant Dehumidification Equipment and Components
- 1369-TRP, Design Guidelines to Prevent Snow Causing Shutdown of HVAC Systems, TC 5.2, Duct Design
- 1385-TRP, Development of Design Tools for Surface Water Heat Pump Systems (SWHP), TC 6.8, Geothermal Energy Utilization
- 1404-TRP, Measurement, Modeling, Analysis and Reporting Protocols for Short-term M&V of Whole Building Energy Performance, TC 4.7, Energy Calculations
- 1409-TRP, Stability of Candidate Lubricants for CO2 Refrigeration, TC 3.2, System Chemistry
- 1413-TRP, Developing Standard Procedures for Filling Climatic Data Gaps for Use in Building Performance Monitoring and Analysis, TC 4.2, Climatic Information
- 1415-TRP, Thermal and Lighting Performance Metrics of Tubular Daylighting Devices, TC 4.5, Fenestration
- 1420-TRP, Inlet and Discharge Installation Effects on Airfoil (AF) Centrifugal PLENUM/PLUG Fans for Air and Sound Performance, TC 5.1, Fans
- 1448-TRP, Ventilation Requirements for Refrigerating Machinery Rooms, TC 4.3 - Ventilation Requirements & Infiltration
- 1467-TRP, Balancing Latent Heat Load Between Display Cases and Store Comfort Cooling, TC 10.7, Commercial Food Display and Storage Equipment
- 1469-TRP, Thermal Comfort in Commercial Kitchens, TC 5.10, Kitchen Ventilation
- 1478-TRP, Measuring Air-tightness of Mid- and High-Rise Non-residential Buildings, TC 4.3, Ventilation Requirements and Infiltration
- 1507-TRP, Binary Refrigerant Flame Boundary Concentrations, TC 3.1, Refrigerants and Secondary Coolants
- 1512-TRP, CFD Resource Decisions in Particle Transport Modeling, TC 4.10, Indoor Environmental Modeling
- 1515-TRP, Thermal and Air Quality Acceptability in Buildings that Reduce Energy by Reducing Minimum Airflow from Overhead Diffusers, TC 2.1, Physiology and Human Comfort
- 1522-TRP, Establishment of Design Procedures to Predict Room Airflow Requirements in Partially Mixed Room Air Distribution Systems, TC 5.3, Room Air Distribution
- 1544-TRP, Establishing Benchmark Levels and Patterns of Commercial Building Hot Water Use, TC 6.6, Service Water Systems

ASHRAE Publishes Risk Management Guideline

ATLANTA – A new guideline from ASHRAE will assist building owners and managers in analyzing what measures should be put in place to protect occupants and property from extraordinary events. These include natural (fire, storm), accidental (transportation or building mishaps) or intentional (arson, terrorism).

ASHRAE Guideline 29-2009, Guideline for the Risk Management of Public Health and Safety in Buildings, provides guidance for the practical evaluation, design and implementation of measures to reduce multiple risks in new and existing buildings. The risks relate to fire, seismic events, chemical and biological releases, blasts and other extraordinary hazards.

“Guideline 29 is the first guidance document on building protection developed by an industry group consisting of a range of stakeholders including engineers, architects, contractors, building owners and others,” George Glavis, chair of the committee that wrote the guideline, said. “It provides a flexible approach to risk assessment for the range of health and safety hazards that may apply to any given building and thereby enables informed decision making.”

It addresses aspects of building performance that affect occupant health and safety, including egress; chemical, biological, and radiological protection; fire protection; smoke removal or purging; filtration; air quality; entrance paths for contaminants; and building envelopes.

The cost of ASHRAE Guideline 29-2009, Guideline for the Risk Management of Public Health and Safety in Buildings, is \$54 (\$46, ASHRAE members). To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit at www.ashrae.org/bookstore.

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Coalition Looks to Producing High-Performance Federal Buildings

WASHINGTON, D.C. - As Congress looks toward measures to reduce energy use in federal buildings, the leadership of the High Performance Building Congressional Caucus Coalition has issued recommendations that would allow the widespread development of high-performance federal buildings.

The report, *Producing High-Performance Federal Buildings*, was developed at the request of Rep. Russ Carnahan, D-Mo., co-chair of the High-Performance Building Congressional Caucus, by the leadership of the High Performance Building Congressional Caucus Coalition, which works to heighten awareness and inform policymakers about the major impact buildings have on health, safety and welfare.

The report is being issued to other High-Performance Building Congressional Caucus members as well as other relevant Congressional offices.

"These recommendations, if implemented through upcoming energy legislation, will provide an effective transition to reduced energy consumption, enhanced sustainability, improved building operation and maintenance, and more efficient use of national resources in the federal building stock," said Doug Read, program director of government affairs for the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), and chair of the Coalition.

The recommendations include:

- Require true life-cycle analysis and decision-making for the acquisition of federal buildings
- Require total building commissioning for the federal building stock
- Require integrated project delivery, including whole building design, procurement and construction for federal buildings
- Require building information modeling and support building data interoperability for federal buildings
- Require comprehensive education and training and higher levels of competence in the federal building design, property management, operations and maintenance, and procurement communities
- Require the collection, storage, dissemination and utilization for federal building performance data

More information on the Coalition and a copy of the report can be found at www.hpbccc.org.

The High-Performance Buildings Congressional Caucus Coalition (HPBCCC) is a private-sector coalition providing guidance and support to the High-Performance Building Caucus of the U.S. Congress. The High-Performance Buildings Congressional Caucus Coalition will work with the Congressional Caucus to promote and showcase best practices in building design and focus on issues reflecting all aspects of high-performance buildings including: accessibility, aesthetics, cost-effectiveness, functionality, historic preservation, productivity, safety and security, and sustainability.

ASHRAE Appoints First DOE Building Energy Codes Fellow

ATLANTA – The American Society of Heating, Refrigerating and Air-Conditioning Engineers has appointed its first Building Energy Codes ASHRAE Fellow in partnership with the Department of Energy. The new Fellow, Mike Erbesfeld, will assist the DOE in assessing the impact of updating state energy codes to meet the 2010 version of ANSI/ASHRAE/IESNA Standard 90.1.

"The fellowship is valuable in that I get to bring my industry perspective to the federal government, where I can illustrate the obstacles and pitfalls on the path to net-zero-energy buildings, says Erbesfeld. "At the same time, this collaboration will hopefully ease the communication among owners, designers and building code officials, creating a more efficient and streamlined process from design to certificate of occupancy."

Erbesfeld will be placed in the DOE's Office of Building Technologies, Building Energy Codes Program. He will analyze energy code updates based on EnergyPlus analysis of benchmark buildings and cost databases, as well as perform compliance testing of COMcheck using benchmark buildings and recommend program and front end changes to simplify COMcheck use. COMcheck is a software program from the DOE that simplifies energy code compliance by offering a flexible computer-based alternative to manual calculations.

Erbesfeld's most recent role was as an ASHRAE Congressional Fellow in the office of Sen. Diane Feinstein, where he worked on legislative efforts that included tax credits and deductions to assist homeowners and businesses make energy efficient improvements and with HUD to ensure that their energy efficiency mortgage (EEM) program was utilized to its full potential.

He graduated from the University of Miami, Miami, Fla., with a master's degree in mechanical engineering.

ASHRAE launched its Washington Fellow program in 2007 to allow participants to work in the federal government in a technical advisory role for limited terms. The Society is accepting applications for additional DOE ASHRAE Fellows. For more information on the program, contact Doug Read, ASHRAE Program Director of Government Affairs, at dread@ashrae.org or (202) 833-1830.

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LONDON AND AREA
ASHRAE GOLF TOURNAMENT

JUNE 1, 2009

Time:

10:00 – 11:15 am Registration in the Clubhouse.

11:15 am Instructions and Rules of the Day

11:30 pm Shotgun Start
Scramble

Bag Lunch

Please bring prizes and money owing to the registration table. Mulligans will be sold for \$5.00 each or 5 for \$20.00. Proceeds to ASHRAE Research.

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