



Capital Communiqué



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<http://www.ashrae.ottawa.on.ca> **OTTAWA VALLEY CHAPTER** e-mail: contact@ashrae.ottawa.on.ca

2007 - 2008

January 2008

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EVENING PROGRAM

DATE: Tuesday **January 15, 2008**. Social: 17:30 Dinner: 18:30 Program: 20:00
CLEO Banquet Center, 156 Cleopatra Dr., Nepean, Ont., (613) 224-8700

**TECH
SESSION** [Career Fair](#)

THEME: **Student Activities**

PROGRAM: **CMHC Equilibrium Project (A Zero Net Energy Consumption Facility)**

SPEAKER: **Don Fugler**, CMHC Policy and Research

OVERVIEW: The Canada Mortgage and Housing Corporation (CMHC) EQUilibrium project is designed to show how builders can construct houses that have a net zero energy consumption after completion. These houses are also designed to respect the CMHC Healthy Housing principles, so that they are environmentally sound, good for occupant health, and, as much as possible, affordable. The project specifically deals with the 12 houses across Canada which were selected through the EQUilibrium competition. Construction schedules vary, with some houses already complete and some still chasing financing. The presentation will cover the basics of Net Zero housing, and how the individual EQUilibrium houses satisfy those requirements. The presenter is also in charge of monitoring the completed houses, and will detail some of the complexities of developing monitoring strategies for these low energy houses.

SPEAKER BIO: Don Fugler works in Policy and Research for Canada Mortgage and Housing Corporation (CMHC), the federal agency responsible for housing policy. He was trained as a mechanical engineer. He manages low-rise residential projects for CMHC in areas such as indoor air quality, ventilation, moisture, attics, energy usage, and contaminated soils. In the last twenty years he has published ASHRAE papers on combustion spillage, residential exhaust fans, crawl space moisture monitoring, attic moisture monitoring, furnace filter performance, and pollutant entry from attached garages.

Menu

Hot and Cold Buffet
Coffee and Tea, Assorted Pastries
Chapter Members: \$30.00 Guests: \$45.00



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President &
CRC Delegate



President's Message

By Robert Lefebvre
P.Eng., LEED AP
2007-2008 OVC President

Hi Everyone,

By the time you get this article, it will be a few days before the Christmas break. So how is everyone doing? Got your shopping done? Got your new year's plans all settled? Are you ready for a new year?

Speaking of the new year and giving, ASHRAE is having their winter meeting in New York City. The winter meeting is an opportunity to see and be a part of how ASHRAE society functions, attend a multitude of technical seminars, go on tours of some of the most advanced buildings, and attend the world's largest HVAC&R product show. The winter meeting starts January 19th and the AHR Expo is from January 22-24. For more information, click on, <http://www.ashrae.org/events/page/1334>. And now the giving part. For those of you who are Ottawa Valley Chapter members in good standing, I have free passes to the AHR Expo. If you are interested, send me an e-mail (rlfebvre@gwal.com) and I will get you a pass.


I have some good news about our program. We just received confirmation that Richard Rooley (former ASHRAE President and O&M guru) will be our honoured guest and speaker for April's meeting. Mr. Rooley is flying in from his home in England to give his presentation on, "The people of our industry - The human seven deadly sins in the use and construction of buildings". Mr. Rooley is also chairing a technical session at the ASHRE winter meeting in New York on how O&M can help to achieve a net-zero energy building. For more on this refer to [the Sustainability article here](#).

Did someone say net-zero energy building? Hey, that's what our January presentation is on (it's almost like I know what I'm doing). Come on out to our chapter meeting to see what it will take to design and build a net-zero energy building. While you're at it, help support a student by sponsoring a student meal. It is student night in January, and all the students will be famished (and no doubt parched) from working hard at scouting out jobs at the ASHRAE career fair before hand. If you are interested in having booth at the career fair, you had better hurry and [check out Stephen Lynch's article on how to apply](#).

I look forward to seeing you at January's meeting.

Yours very truly,

Robert Lefebvre, P.Eng., LEED AP
ASHRAE Ottawa Valley Chapter
2007-2008 President



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Secretary



What You Missed

by Patrick St-Onge
P.Eng., LEED AP
2007-2008 Chapter Secretary

The theme of the night for the November meeting was Research. As such, a tour at the NRC National Fire Laboratory in Almonte was organized. The people who were present had the great opportunity to witness this installation where fires can be simulated and measured to better understand the dynamics a fire, including smoke generation and heat transfer in “real life” conditions. Very impressive research programs were explained and demonstrated such as one that would allow to extinguish a fire in a tank with halon and dissipate the gas rapidly enough so that the soldiers would survive.

David Rasmussen, RVC for ASHRAE Research explained what ASHRAE Research is about, with over 2 M\$ funds raised. The research money raised last year by the Ottawa Valley chapter was to the amount of \$19,500, surpassing the objective of \$16,000. Jay Doshi, last year’s ASHRAE Research chair accepted the award from Mr. Rasmussen for this success.

The presenter for the evening was Ahmed Kashef, researcher at the NRC National Fire Laboratory. The topic was the development of a research program called “Algorithm for Smoke Modeling in large multi-compartmented buildings”, project which is fully funded by ASHRAE. The intent of the research is to facilitate smoke control design analysis in large buildings. It’s purpose is to become the basis for performance based code. This rather technical session, even with the presenter purposely avoiding complicated and dry equations, was a unique opportunity to witness what your money is invested in when donating to ASHRAE Research.

Committee
Chair



Membership

by Christine Kemp
2007-2008 OVC Membership Promotion Chair

ASHRAE Ottawa Valley Chapter would like to welcome the following new members:

- Denis Clement, Etienne Fleurant, Nicholas M.Lea, Lucas Busch, Adham Sharara, Stefan Michalski and Judy Jeske.

We also have one new student member this month: Matt Stiles

Welcome aboard. We are happy to have you join our group.
Merry Christmas. See you in the New Year.

Christine Kemp
ASHRAE Ottawa Valley Chapter
Membership Chair Person

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Governor



History – Spotlight on Gerry Patterson

by Rod Potter
Governor, Chapter Historian, Gopher and Webmaster

Gerry Patterson, of Clemann Large Patterson fame, had his first taste of the engineering construction industry way back in 1955 when he was still in high school. His father was in the construction business and his contacts led to Gerry taking a summer job at Balharrie Helmer Architects here in Ottawa. Back then we were not surrounded by engineering consultancies (in fact the only one was operated by Jake Klassen), and architectural firms tended to offer full-service design to their clients. It was at this architectural practice that Gerry first met some of Ottawa's other legends of our industry, namely Gord Goodkey and Stirling Weedmark.

The firm was located downtown in a building on the northeast corner of Metcalfe and Albert Streets. At that time the government had a drawing storage facility in a building on Victoria Island (one of the islands you cross using the Chaudiere Bridge). Most of these drawings were "pencil on paper", and a bright spark in the government had decided that these should be converted to "ink on linen". Thus Gerry had his first task in our industry, where the average day consisted of tracing old drawings using ruling pens and Pelican ink. His salary was 25 cents/hour, which he assures me was just fine for a summer job rate.

It seems that Gerry was rather good at his summer job because in his second summer at the firm, a senior partner called him into his office and gave him a raise to 35 cents/hour. Gerry remembers this as a wonderful place to work with a fine atmosphere, no air conditioning, and a guy called Oliver Kent who always wore shorts to work. Another favourite of his was Leo Bortelotti, who taught Gerry the finer art of drafting.

In 1957 Gerry was on his way to a University degree at Carleton, which in those days was situated on Second Avenue. At around about this time, Gord Goodkey and Stirling Weedmark decided to leave Balharrie Helmer and formed Adjeleian Goodkey Weedmark with John Adjeleian. Gerry was persuaded by Stirling to join the new consultancy, graduated from Carleton in 1962, and was a P.Eng. by 1964.

In the mid 60's, John Adjeleian split away to form Adjeleian Rubeli, leaving Goodkey Weedmark as a mechanical/electrical practice. This was a booming period and there was a large amount of work in Pembroke, building schools. Gerry also remembers working on HVAC equipment rooms at AECL Chalk River, where they took such pride in their environment that they even polished the pneumatic tubing on the control systems! The clients up in Pembroke started pressuring Goodkey for a permanent local presence so they opened an office in the same building as Don Griffin Architects, and Gerry was made "manager" of this office, which really consisted of a one-room office in the basement of the building. Gerry bought his first house up in Pembroke, for \$13,000, and he remembers it fondly. The workload dried up in Pembroke after about 3 years, and Gerry returned to Ottawa circa 1969.

A certain Mark Clemann had been working under Gord Goodkey for some years. He first appeared on the scene from Switzerland in about 1958 and Gerry turned up at his summer job one day to find that Mark had usurped his drafting board. Mark became chief mechanical designer at Goodkey Weedmark and his ambition eventually caused him to leave and create Clemann Large Design Services in 1969 with Alan Large. Gerry was very impressed with Mark Clemann's abilities, and when he and Alan asked him to join the new firm circa 1970, he agreed with enthusiasm. And of course Gerry had the Professional Engineering Stamp that Mark and Alan needed.

(cont...)

Clemann Large Patterson had its early days in a building downtown on Albert Street, and originally consisted of the three partners plus Carol Hilsiemer, a wonderful jack-of-all-trades secretary. Work was good through the 70's and really took off in the 80's, with countless high rise office buildings and hotels, including the fancy one downtown with the revolving restaurant (its name keeps changing).

Gerry remembers those days having Friday lunches that turned into midnight binges. It was common for card games to start at lunch time and go on for three hours, with people like Gord Goodkey, Stirling Weedmark and Bob Legare of Honeywell at the table. The Beacon Arms Hotel downtown was a favourite watering hole, and it stands next to the Commonwealth Building, both buildings ten stories high. The law in those days stated that you were not allowed to just buy a beer, you had to have food with it, so the waiters used to appear with the plate of plastic sandwiches that no-one ever ate! Occasionally they all used to head up to the roof of the Beacon Arms building to get a little fresh air. The proximity of the Commonwealth Building, only about four feet away, with a 10 story sheer drop between, did not stop one Dennis Jabour from jumping between the buildings on a dare.

By 1984, Mark Clemann handed over control of Clemann Large Patterson to Gerry, who continued to run the company for another four years until he retired in 1988. The industry was changing (not for the better) and Gerry remembers working on the Les Suites Hotel project downtown in the late 80's. The client was particularly demanding, and he insisted that the hotel open before it was finished, which resulted in many problems. The stress level was becoming unhealthy to the point where if the telephone rang, Gerry would "jump out of his skin". On one Sunday night the phone rang and it was the client complaining to Gerry that the domestic hot water had failed at the hotel (perish the thought that the client might call the contractor instead). Gerry had got to the point in his life where he was putting out fires all day long instead of doing what most of us enjoy – engineering. And enough was enough so he retired (and I do not blame him).



Gerry Patterson December 2007

Gerry's first involvement with ASHRAE was back in his university days when a secret benefactor had sent one of Gerry's essays on HVAC in to an ASHRAE competition, and he won. He served as governor in the OVC 1975-1976 year, under then president Charlie Hobbs. In 1988 the ASHRAE AGM was held here in Ottawa, at the Chateau Laurier, and Gerry took on the role of Chairman for this grand event. George Carscallen, Bob McKee, and Charlie Hobbs were co-chairs. Gerry's wife Helen organized the ladies program.

Gerry remembers that the president of ASHRAE, H.E. Burroughs, visited Ottawa with his wife in April prior to the AGM, to get a feel for the city. Gerry picked them up at the airport and of course, it was snowing. Mr. Burroughs had to ask "is this normal?" Mr. Burroughs had a penchant for Paisley ties, and insisted that Gerry wear similar attire during the meetings, so he had to task the wonderful Joan May with kitting him out with Paisley for the function.

I asked Gerry to tell me what he thinks most relevant from his career in our industry, to which he replied that he is still entertained by the thought that when he started out, buildings had heating systems that worked by vacuum steam courtesy of Dunham Bush, and certainly had no air-conditioning. Things progressed to the point where systems were full air-conditioning with heat recovery and Direct Digital Control.

It is a fine testament to Gerry's career that he marvels at how engineering has developed through the years.

Roderic S. Potter
Carleton Place
2007.12.13



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Jack Teevens
Region General Manager

Committee
Chair



ASHRAE Student Career Fair '08

By Stephen Lynch
2007-2008 OVC Student Activities Chair

January's meeting will be our second big student night. During the day we will be building upon last year's success and hosting ASHRAE OVC CAREER FAIR '08. I would like to thank everyone who has helped out and contributed to what is sure to be another successful event.

A big change to the format this year is we are kicking off the career fair with ½ hour of presentations from industry professionals talking about careers in Manufacturing, Consulting, Sales, and Facility Management. The format for the day is as follows:

2:00 – 2:30 – Kick Off - ½ hour of presentations on our industry from a Sales, Consulting, Manufacturing, and Facility Management perspectives.

2:00 – 2:30 – Career Fair '08 opens

5:30 pm – Career Fair '08 Closes and the regular program begins. We invite all companies to sponsor a student meal and have them join our regular evening activities.

There are still a few more booths available. Do not miss this great opportunity to meet some of the new talent entering our industry. Members of our ASHRAE chapter have been out contacting a number of faculties and students at:

- Algonquin College
- CEGEP de L'Outaouais
- La Cite Collegiale
- Algonquin College
- University of Ottawa
- Carleton University

Costs:

Booth - \$200/booth which includes a free dinner and advertising











Advertising - \$100 to have you company on a line-card handout and communiqué

Booths Include:

- Approximate 12 X 8 space
- 120 VAC power, but please bring your own extension cords and power bars
- Tables and skirts provided
- Students seeking a career
- Wireless internet
- Your companies name and contact information on a line-card handout to the students
- Notify Stephen Lynch of any extra requirements and we will do our best to accommodate.

Please RSVP Chris Frauley (Chris.Frauley@mckeeottawa.ca) or
Stephen Lynch (Stephen.Lynch@directenergy.com), Tel: 613-247-7451, Fax: 613-247-7990)

Companies already committed to the improvement of our talent pool: (in alphabetical order)

BOMA/BOMI Ottawa	
Direct Energy Business Services Limited	
Engineered Air	
Johnson Controls	
Longhill Energy	
Master Group	
Nortec	
R.J. McKee	
Regulvar Canada Inc.	
TRANE	

More student related information from ASHRAE:

ASHRAE is a national partner of the Absolute Zero program!

(<http://www.ashrae.org/students/>)



Absolute Zero is a K-12 program and two-part PBS television special that will demonstrate how civilization has been profoundly affected by the mastery of cold. The documentaries, which are a unique blend of science, cultural history and adventure story, will explore key concepts, significant individuals and events in the field of low-temperature physics and the enormous impact that the mastery of cold has had on society through such technologies as air conditioning, refrigeration and liquefied gases.

Visit <http://www.absolutezerocampaign.org/> for more information.



Research Promotion

By Glenn MacLean
 P.Eng.
 2007-2008 OVC Past President

Our November meeting was our first opportunity to recognize last year's contributors to ASHRAE Research. Well done Jay Doshi on exceeding your goal last year. We were also able to announce our chapter's success in achieving the Full Circle Award again this year. Thank you to my fellow executive for their commitment.

Pictured below are the investors from last year that contributed between \$100 and \$250.



From left to right: Dave Rasmussen (RVC for RP), Glenn MacLean, Jay Doshi, Robert Lefebvre, Mike Swayne, Cathy Godin, Pierre Richer (accepting for Dilfo), Darryl Boyce, Paul Baker (accepting for Johnson Controls) and Doug Wellman (accepting for Capital Air Conditioning).

Not Pictured: Imtee Baksh, Neil Armstrong, Jay Jayaraman, S.K. Sheet Metal, C&S Heating, Byron J. Landry & Assoc. Eric Van Benschoten, Rod Lancefield, Hyman Yanofsky, Frank Belair, and Dalton McIntyre.

The second category of investors recognized was for investment between \$250 and \$500.



From left to right: Dave Rasmussen (RVC for RP), Lan Chi Nguyen Thi (accepting fro Gemma Kerr), Paul Pilotte (accepting for Ray Rochefort of Siemens), and Chris Frauley (accepting for McKee Engineering).

Not pictured: Modern Niagara, and Mastron Mechanical.

Our third group of investors includes the companies or individuals that contributed between \$500 and \$1000.



Pictured: Steve Moons (accepting for Total HVAC).

Not Pictured: Mechanical Contractors Association of Ottawa.

Our group of Major Donors was recognized for contributions of \$1000 to \$2500.



From left to right: Rob Lefebvre (accepting for Goodkey Weedmark), and Jim Harrison (accepting for Axair Nortec Inc.)

Not pictured: DisTech HVAC Inc.

We also were able to recognize our first Golden Circle Investor this year. Enbridge Gas Distribution donated \$12,000 to ASHRAE Research Last year making them one of the largest single investors in North America.



Their commitment to ASHRAE Research is truly appreciated.

Thank you to all our investors. I look forward working with you all again this year.

Regards,

Glenn MacLean, P. Eng.

COULD THIS BE TRUE?

As explained by Cliff Clavin, of Cheers. One afternoon at Cheers, Cliff Clavin was explaining the Buffalo Theory to his buddy Norm. Here's how it went:


" Well ya see, Norm, it's like this... A herd of buffalo can only move as fast as the slowest buffalo. And when the herd is hunted, it is the slowest and weakest ones at the back that are killed first This natural selection is good for the herd as a whole, because the general speed and health of the whole group keeps improving by the regular killing of the weakest members.

In much the same way, the human brain can only operate as fast as the slowest brain cells. Excessive intake of alcohol, as we know, kills brain cells. But naturally, it attacks the slowest and weakest brain cells first. In this way, regular consumption of beer eliminates the weaker brain cells, making the brain a faster and more efficient machine. That's why you always feel smarter after a few beers. "

WARNING: The consumption of alcohol may make you think you are whispering when you are not.


DURING THIS HOLIDAY SEASON, PLEASE DRINK RESPONSABLY.

John Lowery, P.Eng.
Senior Territory Manager



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Membership Renewal

By Robert Lefebvre
P.Eng., LEED AP
2007-2008 OVC President

Most of you are aware that ASHRAE has been having difficulties with chapter assignment of Canadian chapter members who renew their memberships on-line. New Canadian members have also been having difficulties with being assigned to the incorrect chapter.

Over the last several months, the Region II Chapter Presidents have been working directly with ASHRAE staff to find a solution. I am pleased to announce that we have had a breakthrough. Dropdown menus have been added to the on-line renewal and new membership application forms that will allow members to manually select what chapter they want to be affiliated with.

With the dropdown menus in place, please feel free to renew your memberships on-line and make sure you select the Ottawa Valley Chapter as your preferred Chapter. Thank you for your patience with this matter.

Committee Chair



2007 ASHRAE Curling Bonspiel

by Chris Healey
2007-2008 OVC Committee Chair



This years ASHRAE Curling Bonspiel will be again held at the Nepean Sportsplex on March 14, 2008. Mark the date on your calendar and watch for further updates in February.

Hope to see you there!

Chris Healey

Mike Tomkinson, P.Eng.
Sales Manager




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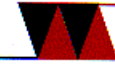


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President-Elect &
CRC Alternate



Commissioning Seminar

by François Bélair
2007-2008 President Elect

Save the date - March 18th, 2008

The Commissioning Process for New and Existing Buildings

The ASHRAE OVC is finalizing details for a full day commissioning seminar this coming March. Invitations will be distributed early in the New Year. Preliminary inquiries may be addressed to Francois Belair (fbelair@master.ca) P: 613-829-2816

Learn the Latest Building Commissioning Process Through Your Chapter

The Commissioning Process for New and Existing Buildings

This course will explain the fundamentals of applying the building commissioning process to new construction and existing facilities. Learn the commissioning process through each step of a project from pre-design to occupancy and operations. The course explains the benefits of commissioning and how the process can improve the quality of design and construction, and raise the professional reputation of the entire commissioning team. The course discusses the documentation that is created during the process, including specifying commissioning for new construction.

The presenter:



Richard Casault, P.E., CDT (Casault Engineering)



FRANCOIS BELAIR, P. Eng.
Sales Engineer
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News Update

By Robert Lefebvre
P.Eng., LEED AP
2007-2008 OVC President

Technical News:

Database of Building, Equipment Owning, Operating Costs Provided by ASHRAE

December 3, 2007

ATLANTA – Every day, engineers are asked to advise building owners and managers on strategic decisions involving the life cycle and functionality of buildings.

In the past, lack of valid data has left engineers without a solid basis for making these decisions. A new free online database from ASHRAE provides engineers with equipment service life and annual maintenance costs for a variety of building types and HVAC systems. The database can be accessed at www.ashrae.org/database. It contains more than 300 building types and more than 38,000 pieces of equipment with service life data.

The database allows users to access up-to-date information to determine a range of statistical values for equipment owning and operating costs. With this, ASHRAE is providing the necessary methods and information to assist in using life-cycle analysis techniques to help select the most appropriate HVAC system for a specific application.

“Life-cycle evaluations provide the most effective method for determining the best value of HVAC system alternatives,” said Lynn Bellenger, chair of ASHRAE’s Technology Council. “In order to facilitate the use of life-cycle analysis techniques by decision makers, the necessary data must be available, current and correctly applied. This database provides that needed data.”

As part of the project, users are encouraged to contribute their own service life and maintenance cost data, further expanding the utility of this tool. Over a period of time, this input will provide sufficient service life and maintenance cost data to allow the comparative analysis of many different HVAC systems types in a broad variety of applications. Data can be entered by logging into the database and registering, which is free.

Information from the database also is used to update the ASHRAE Handbook. Chapter 36, Owning and Operating Costs, of the 2007 ASHRAE Handbook, *HVAC Applications*, contains median equipment service life data from the first 163 commercial buildings that were used to seed the database, with updates to come as the database grows.

The database is the result of ASHRAE research project 1237, *Interactive Web-based Owning and Operating Cost Database*, sponsored by ASHRAE’s technical committee 7.8, Owning and Operating Costs.

Sustainability News:

Hitting the O&M Notes to Achieve Net-Zero-Energy Buildings

November 16, 2007

ATLANTA – In composing net-zero-energy buildings, operation and maintenance are two of the most important chords. “Zero energy is only in its infancy,” said Richard Rooley, FREng. “Right now, engineers are like a composer, who sets out the notes and the way music is presented. As our knowledge grows, we will learn how to play our instrument to achieve a zero carbon building. But without more guidance on design of net-zero buildings, the music will fail.”

The role of operation and maintenance in achieving net-zero-energy buildings is highlighted in a two-part seminar at ASHRAE’s 2008 Winter Meeting, *Net-Zero Energy Buildings: The Impact of O&M Practices?* It takes place from 8-9:30 a.m. and from 9:45-10:45 a.m. Jan. 22, New York Hilton.

In recent years, high-performance and net-zero-energy buildings have been identified as performance targets by ASHRAE, federal governments and other organizations. Much of the work to date toward these targets has focused on design of such buildings. Commissioning, operation and maintenance (O&M) are likely just as critical to achieving actual net-zero-energy performance as design.


“The seminar shows us how we are slowly learning to procure buildings for use, not just to look beautiful and meet theoretical design-as-an-end criteria,” said Rooley, chair of the seminar, sponsored by ASHRAE’s technical committee on operation and maintenance management

Other sessions in the technical program focusing on net-zero energy buildings include:

- *How to Model Nothing: Energy Simulations of Net-Zero Energy Buildings: Part 1 and 2*, 11 a.m.-12:30 p.m. and 1:30-3 p.m., Jan. 20.
- *Long Term Data Center Planning: the Push Toward Net-Zero Energy and Other Considerations*, 12:40-1:20 p.m., Jan. 20.
- *Net-Zero Buildings: Will Energy Storage Be Essential*, 12:40-1:20 p.m., Jan. 20.
- *Thermoeconomics of Net-Zero Design* 9:45-10:45 a.m., Jan. 21
- *Energy Analysis 2: Energy Efficient Design, Analysis and Rating for Net-Zero Energy Buildings, Part 1*, 9:45-10:45 a.m., Jan. 21; *Part 2*, 11 a.m.-noon, Jan. 23.
- *Energy Analysis 3: Advanced Applications for New Heights in Net-Zero Energy Buildings*, 11 a.m.-noon, Jan. 21.
- *Zero Energy Buildings of the Future: Is it Time to Define Resource Energy Efficiency and Apply it to Buildings in the Future*, 11 a.m.-noon, Jan. 21.
- *How Low Can You Go? Case Studies of Low-Energy Buildings*, 9:45- 10:45 a.m., Jan. 22.
- *How Do You Connect Your Net-Zero Building to the Grid*, 8-9 a.m., Jan. 23.
- *What Defines a Net-Zero Energy Building*, 11 a.m.-noon, Jan. 23.
- *Low- and Zero-Carbon Cities of the Future*, 1-2:30 p.m., Jan. 23.
- *Performance Monitoring to Achieve Net-Zero Energy*, 1-2:30 p.m., Jan. 23.

For more information about the ASHRAE meeting, Jan. 19-23, at the New York Hilton, visit www.ashrae.org/newyork. Held with the ASHRAE Winter Meeting is the ASHRAE co-sponsored International Air-Conditioning, Heating, Refrigerating Exposition, Jan. 22-24, at Javits Convention Center. For more information, visit www.ahrexpo.com.

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ASHRAE Launches New Magazine Dedicated to High-Performing Buildings

November 21, 2007

ATLANTA - ASHRAE has launched a new magazine to help decision-makers in the building community learn about the latest developments in innovative technologies and energy-efficient design and operation.

Targeted at building owners, facility managers, architects and engineers, High Performing Buildings features working case studies of exemplary buildings developed by leading practitioners in the sustainability movement. Also included is a "lessons learned" section in each article where building designers and operators explain what went right, what went wrong, how problems were resolved and what could have been done better.

"It is essential that ASHRAE share both the technologies and measured performance of high-performance buildings to change the status quo and help transform the building industry to a more sustainable built environment," said Kent Peterson, ASHRAE president.

ASHRAE's goal is to advance the concept of integrated building design with a focus on measured building performance, not just design of sustainable buildings. The cases studies featured will provide performance data, verifying actual sustainability performance.

The cover story of the first issue focuses on Heifer International. By providing gifts of livestock and plants to financially disadvantaged families around the world, Heifer International teaches sustainability by showing recipients how to use those gifts wisely. The importance of passing on the gift of sustainability is also highlighted in the organization's Arkansas headquarters, which features earth-friendly designs such as a constructed wetlands, a gray-water tower and energy-saving techniques.

"One thing that Heifer understands is that if we are going to have a lasting impact on world hunger, everything we do must be sustainable - that is, the means for production of food and income must renew the environment and not deplete it," Jo Luck, Heifer's CEO and president, said. "In conceiving and constructing our new office building, we are striving to live up to the aspirations of Heifer's own mission of ending hunger and saving the earth."

To learn more or to subscribe, visit www.HPBmagazine.org. The quarterly magazine will be distributed via print and digitally. Do you have a colleague or client who is an architect, building owner, facility manager, or design/build contractor? Just forward the link www.HPBmagazine.org/subscribe, to them so they can subscribe, to the print edition at no cost and learn how buildings can achieve energy, economic, and environmental performance that is substantially better than standard practice.



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