



ASHRAE Ottawa Valley Chapter

- DATE:** Tuesday September 15, 2015
(Social: 17:30, Dinner: 18:30, Program: 19:30)
- LOCATION:** Algonquin College Restaurant International
1385 Woodroffe Ave, Building H, Room H100
- PROGRAM:** Shawn Carr, P.Eng. Energy Manager, Hydro Ottawa

The IESO (Independent Electricity System Operator) recently announced a new six year conservation framework with an objective of reducing electricity consumption by 7 terawatt-hours (TWH) by December 31, 2020. We are now in the process of transitioning to this new framework which means you will have access to long-term stable funding to make your projects more attractive to your customers. This month's technical session will provide an update on Hydro Ottawa's saveONenergy Retrofit Program which will run until the end of 2020 and incent up to 50% of the project costs associated with installing energy efficient equipment. Shawn will discuss what types of projects are eligible, which application process is right for your project, and how to participate. Case studies will be used to demonstrate how available incentives can make it possible for organizations to invest in more energy efficient solutions.

SPEAKER BIO:

Shawn Carr recently joined Hydro Ottawa's Conservation Demand Management team as an Energy Manager after spending almost 10 years providing consulting services to building owners and managers as a Managing Principal for WSP (formerly Halsall's) Green Building and Energy Services team. Shawn has been dedicated to delivering innovative and practical building solutions to building owners with a core focus on sustainability and energy performance. As a senior principal and project manager for well over 100 building projects, his project experience includes energy audits, capital planning, retro-commissioning, LEED, BOMA BEST, Green Globes compliance and corporate sustainability strategy. Shawn is an active contributor to the building industry, and currently chair's the BOMA Ottawa Chapter Education committee, sits on the BOMA Ottawa Chapter Board of Directors, and on the Carbon613 technical advisory committee. He is now responsible for working with owners, property managers, and channel partners (all of you) to influence more energy efficient capital and operating decisions that will reduce building energy use and operating costs, optimize available incentives, and make your business case to your clients more attractive.

Chapter Members: \$45.00 Guests: \$65.00
Student Members: \$30.00 Life or Fellow: \$45.00

Space is limited so please register online at:
<https://ashraeottawa.simplesignup.ca/en/610/index.php?m=eventSummary>

President's Message

Dear members,

I would like to welcome all of you to a new season of **ASHRAE**, we hope you enjoyed your summer and that everyone feels refreshed and ready for the new season. It is with enthusiasm that I assume the presidency of the Chapter this year. I hope that with the executive, the board of governors, committee chairs, and with the dedication of our numerous volunteers, we will meet your expectations.

During our annual **June** planning meeting, the Chapter Officers and Board of Governors brought several interesting topics and ideas to the table for our **2015-2016** presentation line-up. The program committee, led by Mr. **Jacob Hough**, has done a splendid job of putting together a great series of program topics, technical tours, seminars, and social events. We are currently completing some final details, but please refer to Jacob's article in this communique for a taste of what's to come. The executive committee and all committee chairs invite you to participate in these various meetings, activities and conferences planned for the

year. We hope that you will take time to enjoy the fantastic year that awaits.

The **September** meeting theme has always been dedicated to membership and focuses on the recruitment of new members. This is an opportunity for all of you to speak to your HVAC&R entourage and inform them of the advantages of being an **ASHRAE** member as well as a chapter member. The **Ottawa Valley Chapter** has consistently increased its membership through the last few years, and we are nearing the 500 members mark. Last year, many of you attended our monthly program meeting, 495 participants in total, with an average attendance of 62 people per meeting. We hope to exceed this number this year.

Our next program meeting will be held on **September 15th** at the **Restaurant International at Algonquin College**. Our speaker will be Mr. **Shawn Carr**, Energy Manager at **Hydro Ottawa** who will be presenting an update on **Hydro Ottawa's saveONenergy Retrofit Program** which will run until the end of **2020** and incent up to **50%** of the project



President
Georges Maamari

2015-2016

OVC President

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costs. Many of you may not be aware, but **Hydro Ottawa** were a significant donor to our Research Campaign last year. We took this opportunity to work with **Hydro Ottawa** in putting together this program topic as it was deemed very beneficial to our membership. This presentation is an opportunity to learn about **Hydro Ottawa** incentive program and how their resources can help consulting engineers and building owners obtain these significant grants. To register please go to our website at www.ashrae.ottawa.on.ca and click on the **September** meeting program link. Don't forget to purchase your meal plan for the year and we hope to see a large number of you at this meeting.

Best regards,
Georges Maamari, P.Eng
2015-2016 OVC President

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Atma Anantram P.Eng
Account Executive

ASHRAE OVC Seminar

DATE: Wednesday, October 28, 2015
Full Day Seminar (8am - 4pm)

LOCATION: Ottawa, ON (Exact location to be confirmed)

TOPIC: **Part 1: Air-to-Air Energy Recovery Fundamentals**
Part 2: Air-to-Air Energy Recovery Applications: Best Practices

PRESENTER: **Paul Pieper, Eng.**
Product Line Manager, Venmar CES



Paul Pieper, Eng., is the Product Line General Manager for Venmar CES Unitary Products. He has spent the majority of his career working with manufacturers of HVAC products and has developed in-depth knowledge of Unitary and Applied (airside) systems and equipment with particular emphasis in high performance and specialty applications. Throughout, Mr. Pieper has always been involved with some form of air-to-air energy recovery technology in general and Dedicated Outdoor Air Solutions® in particular. He has held roles in Applications, Engineering, Marketing, Product Management and Development

Mr. Pieper is a member of the Quebec Order of Professional Engineers. He represents his company with AHRI on the AHRI ERV Product Section and Compliance committees and several Working Groups. In addition, he also worked with ISO TC86/SC6/WG10 to help develop the International Standard prescribing a method of test for the ventilation and energy related performance of Heat Recovery and Energy Recovery Ventilators.

Mr. Pieper has long been involved and very active with ASHRAE. He has contributed to the ASHRAE Handbooks, peer reviewed several articles, and is a past Chair of ASHRAE TC 8.12. He is currently the Vice Chair of ASHRAE TC 5.5 Air-to-Air Energy Recovery and on the Project Monitoring Sub-committee for 1712-RP for the upcoming Dedicated Outdoor Air Design Guide. He is active as an Instructor for the ASHRAE Learning Institutes (ALI) and has developed two short courses relating to air-to-air energy recovery: "Air-to-Air Energy Recovery Fundamentals" and "Air-to-Air Energy Recovery Applications – Best Practices", which are part of the Energy Savings Practices Career Enhancement Curriculum.

OVERVIEW:

Part 1: Air-to-Air Energy Recovery Fundamentals

Air-to-air energy recovery provides one of the most cost-effective and efficient ways to recycle waste energy and create superior indoor environments. This course introduces recommendations in the latest ASHRAE and AHRI standards, codes and guidelines with respect to air-to-air energy recovery technology to help determine where and when energy recovery is mandated and why. This course also provides a detailed overview of the most popular commercially available technologies on the market today and explores their construction, psychrometrics, thermodynamic theory of operation, and important operations and maintenance considerations for long life and consistent performance. Engineers, designers and other professionals who are interested in learning all about air-to-air energy recovery and receiving practical guidance on where and when to use different technologies for different applications should attend this course. By the end of the course, participants will be able to better evaluate the performance of these devices and will be able to identify the advantages of each technology to help solve practical problems in meeting ventilation requirements while delivering optimal performance.

Part 2: Air-to-Air Energy Recovery Applications: Best Practices

Air-to-air energy recovery is a very cost-effective and efficient way to recycle waste energy and create superior indoor environments. This course will review real-world examples of where and how air-to-air energy recovery technologies are integrated into some of the most commonly used commercially available systems. Particular configurations that are most commonly used in high-performance buildings and how they can best be used to meet stretch goals for IEQ and energy efficiency and thermal comfort will be examined with respect to established performance metrics, peak performance results and annual energy savings. A variety of different dedicated outdoor air systems, neutral air systems and enhanced dehumidification strategies (with single and multiple heat exchangers) will be examined in detail, along with the advantages and important considerations for using air-to-air energy recovery in many different applications. Best practices for mechanical design, exchanger selection and control strategies will be discussed throughout. Participants should attend this course who are interested in learning how to evaluate different DOAS systems incorporating air-to-air energy recovery and how to avoid common errors in equipment design while simultaneously being able to evaluate these systems beyond just peak performance.

Space is limited so please register online ASAP
\$300 for ASHRAE OVC members, \$360 for non-members
Registration will close **October 23, 2015**

Continental breakfast and lunch will be provided.
Please contact **Sandy Taylor** with any special dietary concerns. sandy@ashrae.ottawa.on.ca

This Year's Program at Glance

We're excited to have this year's program in place! Check out the schedule below for dates, speakers and topics:

Sept 15th: **Shawn Carr**
Hydro Ottawa - Ottawa Projects

Oct 20th: **Andrew Nader**
High Induction Diffusers

Nov 17th: **NRC & Ameresco**
NRC Energy Saving Projects S-77

Jan 19th: **Intel**
Controls

Feb 16th: **Paul Lebbin**
NRC - CCER Facility

Mar 15th: **Bill Banfleth**
Variable Primary Chilled Water

Apr 19th: **Chris Pal**
Design in Highrise Buildings

May 17th: **Don Schutlz**
Rockcliffe Project



Program
Jacob Hough
2015-2016 Program
Committee Chair
Total HVAC

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Region II CRC Recap

The **Hamilton Chapter** hosted the **Chapter Regional Conference (CRC)** from August 20th to the 23rd at the Sheraton Hotel. The **CRC** allows the nine **ASHRAE** chapters of our Region to come together to discuss nominations, report chapter activities and discuss various **ASHRAE** business. **Abbey Saunders** and I attended the caucus meetings with the delegates and alternates of other chapters in order to discuss nominations at the Regional and Society level. At the Regional level, these nominations include the Director and Regional Chair (**DRC**), the Assistant Regional Chair (**ARC**), the Regional Members Council Representative (**RMCR**), as well as all the Regional Vice Chairs (**RVCs**) for the various committees (student activities, CTTC, GGAC, membership, research, and YEA).

These meetings also provide the opportunity to present and vote on motions to modify or improve the way

ASHRAE does business. Alongside myself, the **Ottawa Valley Chapter** was well represented by:

- Abbey Saunders** – CRC Alternate and Research Promotion Chair
- Christopher Fudge** – CTTC RVC
- Roderic Potter** – Regional Historian
- Aaron Dobson** – Chapter Historian
- Richard Cameron** – GGAC Chair
- Celine Baribeau** – Membership Chair
- Jacob Hough** – Program Chair
- Adrienne Mitani** – Student Activities Chair

Daryl Boyce, President of **ASHRAE Research Canada**, was also present at this event. Throughout the weekend, workshops were held by the various RVCs in order to train and convey instructions to the chapter chairs to assist them with their operation at the chapter level.

The **CRC** also provides the opportunity to recognize chapters that have



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excelled at the chapter level by delivering presidential awards. The **Ottawa Valley Chapter** came out strong again this year, receiving a special citation for significant improvement in membership, attendance, research promotion, education, chapter programs and technology. The Ottawa Valley Chapter also received the **Hayward Murray Research Promotion** award for having collected the largest dollar value ever raised by any chapter in **Region II**. Congratulations to **Steve Moons**, chapter officers and all volunteers who helped make the **2014-2015 ASHRAE** year so successful. I am positive this year will be just as successful.

Table Top Display

What better way to display a new product, existing line, or share great ideas than to have a table-top display at our local **OVC ASHRAE** meetings? The **OVC** meetings provide a captive audience in the industry and exposure to 60+ people.

We are currently have some table top openings for the **October** and **Novem-**

ber meeting.

The featured table-tops for the **September** OVC meeting are **AAON** presented by **Total HVAC Inc.**, **Incentive Programs** presented by **Hydro Ottawa** and **Energy Recovery** presented by **Trane**.

Please contact **Shayan Mirza** to se-

Committee Chair

Shayan Mirza

2015-2016

Table Top Committee Chair

Total HVAC

E-mail: shayanm@totalhvac.com

cure yours today! Cost for table tops is \$225 and spaces are filling up quickly, so book your table-top today!



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Total HVAC would be happy to discuss how **AAON** can help you save energy and money on your next retrofit or new construction project.



Businesses across **Ontario** can benefit from an array of programs offered throughout the province through the **saveONenergy** incentive programs. There are energy-efficiency programs to assist organizations from the smallest of retail stores to the largest industrial complexes. There are programs to help fund energy audits, to replace energy-wasting equipment or to pursue new construction that exceeds our existing codes and standards. Businesses can also pursue incentives for controlling and reducing their electricity demand at specific times. The bottom line is that there are innovative programs that can help businesses reduce their electricity costs, while helping **Ontario** defer the need to build new generation and reduce its environmental footprint.



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Student Activities

The school year is just starting off, and we are welcoming a new group of **Algonquin** students who will be working on the **ASHRAE Student** design project: **Trevor Pardoel**, **Brandon Zagrodnik**, **Brandon Gonzalez** and **Robbie Haner**. They will be working with **Chris Frauley** who has again donated his time to

mentor the students. We are also excited to have two **HVAC** courses being offered this year, one at **Algonquin College** and another at **Carleton University** to introduce students to the industry through the school.



Committee Chair

Adrienne Mitani
2015-2016 Student Activity Chair
Smith and Andersen

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2015 Bowling Social

Ladies and Gentlemen,

You are cordially invited to participate in the 2014 **ASHRAE** Bowling Social, to be held on **Wednesday November 18th, 2015** at the **Merivale Bowling Center** (1916 Merivale Rd., Ottawa, www.merivale-bowlingcentre.com).

The format will be three games with 4 people per lane. **7:00pm** start. Please show up at **6:30pm** to register. The entry fee is **\$200** per foursome, or **\$60** per individual. The entry fee includes warm-up, 3 games, shoe rental and plenty of nachos/wings/

pizza. Individual participants will be assigned into groups of four.

This is intended to be a social event to promote the camaraderie and fellowship of **ASHRAE**, please consider attending. Numbers need to be finalized by the first week of November, so please register early. Registration can be done on-line via the link below. Registrations will be confirmed via email receipt. If you have any questions, or need more information, please don't hesitate to contact me.

Payment can be made during the on-

Registration Link: <https://ashraeottawa.simplesignup.ca/en/1138/index.php?m=eventSummary>



Governor

Adam Moons
2015-2016 Membership Committee Co-chair
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line registration.

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ASHRAE Stroke Play Golf Tournament

Ladies and Gentlemen,

The deadline for registration for this event is almost upon us. Very few spots remain available. If you are interested in playing, please sign up on-line, or contact me directly.

The intent of this golf tournament is to encourage the fellowship and camaraderie that **ASHRAE** is known for. To that end, golfers of all abilities are welcome to participate. That said, we will play the game as per **RCGA** rules in a stroke play format. There will be no flights or handicaps applied, and the lowest score on the day will win. There will be no Mulligans, do-overs, foot-wedges or gimmies, and a handout outlining some of the rules to remember will be provided. As this is a purely social event, there will be no auctions, prizes or sponsorship,

just an enjoyable, competitive round of golf.

The tournament will be held on **Friday, Sept. 25th, 2015**. We are very fortunate to be able to move the event to one of the premium local facilities at **Kanata Lakes Golf & Country Club**. The registration will be done on-line, via the link in this email. Registration will start at **9:30am**; first tee time will be at **11:06am**. We will assign the participants into foursomes, teeing off in succession. Registrant's final tee times will be dependant on the total number of entrants. Your registration fee of **\$90** includes green fees and cart only. Meals and beverages can be purchased individually at the course on the day of the tournament. Space is limited, and spots will be first-come, first-served.



Past President
Steve Moons
2015-2016
OVC Past-President
Total HVAC

E-mail: stevem@totalhvac.com

Please register on-line through the Simple Signup website, link below. Participants will be contacted before the tournament to be given their tee time and last minute details. If you have any questions, or need more information, please contact:

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Registration link: <https://ashraeottawa.simplesignup.ca/en/1086/index.php?m=eventSummary>

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Membership Update

September is here and another **ASHRAE** year is about to start! It will be nice to see familiar faces again. However, I always expect to see some new ones. Our first meeting of the year is a great way for new members to get to know us in a casual and comfortable setting.

Improving **HVAC&R** for the built environment is not just a goal, it's part of the **ASHRAE** culture. Members like you share a common interest in providing engineering solutions that reduce energy needs, improve air quality and set standards that help the entire profession around the world.

Your membership in **ASHRAE** supports the improvement of quality of life around the world making big ideas reality while also providing you with professional resources, knowledge and connecting with your **HVAC&R** peers around the world. Your membership also affords you numerous benefits to stay connected with your peers, gain insight on industry issues and remain in the know about your profession.

I would also like to introduce and welcome the following new member:

Mr. Nigel Noble-Hearle
Mr. Peter Slinn
Mr. Clayton Fox



Committee Chair
Celine Baribeau
2015-2016
Membership
Committee Co-chair
BPA

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Looking forward to seeing you at the next **ASHRAE** event!

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OR **\$0.05** / kWh
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News Update

ASHRAE LEGIONELLA STANDARD ADOPTED IN NEW YORK FOLLOWING OUTBREAK

ATLANTA – With 12 confirmed dead and more than 120 cases of infection due to legionellosis, **New York City Council** on **Thursday** adopted legislation that requires adherence to part of **ASHRAE's** newly published Legionella standard.

The legislation addresses registration and inspection of cooling towers. It requires owners to create and file a plan to maintain equipment to comply with **Section 7.2** of **ANSI/ASHRAE Standard 188-2015, Legionellosis: Risk Management for Building Water Systems**.

The standard provides minimum Legionellosis risk management requirements for the design, construction, commissioning, operation, maintenance, repair, replacement and expansion of new and existing buildings and their associated water systems and components.

"Standard 188 was published just two short months ago," **ASHRAE President David Underwood** said. "Although the circumstances surrounding its use are tragic, ASHRAE is grateful that the standard is available to set requirements to manage risk of this bacteria. We are hopeful other governments will follow the lead of the New York City Council to help safeguard public health."

Michael Patton, a member of the committee who wrote the standard, testified before the Council earlier this week on behalf of **ASHRAE**. He spoke to the Council's proposal to adopt **Section 7.2**, noting that other sections also would play a role in reducing risks. **Section 7.2** lists common tasks and steps for items such as new system start-up and seasonal shutdowns, general system maintenance, water treatment, disinfection plans, etc.

While Patton encouraged full adoption of the standard, he said it was helpful that at least **Section 7.2** was included. Patton was thanked by chairman **Jumaane Williams** for making himself and **ASHRAE** available so quickly.

"Section 7 is very good by itself," **Patton** testified, "but it doesn't really address the whole idea of informing building owners, managers, property managers how to put a plan for a whole building into place and what it should contain."

Underwood said **ASHRAE** will continue its work in getting the full standard adopted in **New York City** and in other locations.

Specific requirements in the standard include:

- Minimum Legionellosis risk management requirements for buildings and their associated potable and non-potable water systems.
- Establishment by building owners of a Program Team and (in turn) a Water Management Program for which they are responsible in order to comply with the standard.
- Provision of specific and detailed requirements for what Legionellosis control strategies must accomplish and how they are to be documented – but, does not provide (or place restrictions on) what specific strategies are to be used or applied.

PROPOSED FACILITY SMART GRID MODEL STANDARD REACHES GLOBALLY: OPEN FOR PUBLIC REVIEW

ATLANTA – A proposed standard from **ASHRAE** and the **National Electrical Manufacturers Association (NEMA)** to create smart facilities supporting smart grids is part of an international effort. The proposed standard is open for public review from **Aug. 7** until **Oct. 6, 2015**.

To read the draft standard or to submit comments, visit www.ashrae.org/publicreviews

ASHRAE/NEMA Standard 201P, Facility Smart Grid Information Model, would provide a common basis for electrical energy consumers to describe, manage and communicate about electrical energy consumptions and forecasts.

Committee chair **Steve Bushby** said 201P also is being considered for adoption as an international standard through the **International Organi-**



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zation for Standardization. In addition, the standard coordinates with and uses content from the **International Electrotechnical Commission's Common Information Model (CIM)** standards. It also coordinates with the **North American Energy Standards Board's** basic energy usage data model standard, informally known as **Green Button**, that facilitates consumer access to energy usage information for homes and commercial and industrial buildings.

"The effort to substantially modernize and transform electric grids around the world is an enormous undertaking that reflects both the size and importance of those grids," **Bushby** said. "Viewed in its entirety, it is an intentional effort involving hundreds of organizations and companies and will impact billions of people. The standards infrastructure that will be needed to support this transformation may include over 100 standards by the time that is fully in place. This standard is one part of that infrastructure."

The proposed standard defines an object-oriented information model to enable appliances and control systems in homes, buildings and industrial facilities to manage electrical loads and generation sources in response to communication with the smart electrical grid and to communicate information about those electrical loads to utility and other electrical service providers.

"Almost all electricity is consumed in a building of some kind – homes, retail establishments, offices, schools, factories, hospitals and the list goes on," he said. "Standard 201P attempts to capture the breadth and diversity of these consumers by using the term 'facility.' A facility is any kind of building or collection of buildings and all of the electrical loads or local generation sources contained within them or controlled by the facility owner."

The standard is part of **ASHRAE's** supporting efforts for the **Smart Grid Interoperability Panel**, a private-public partnership initiated by the **National Institute of Standards and Technology** to speed development of interoperability and cyber security standards for a nationwide smart electric power grid.

ASHRAE ANNOUNCES FALL ONLINE COURSES

ATLANTA – Ten online professional development seminars focused on commissioning, environmental quality, energy efficiency, HVAC applications, and standards and guidelines are being offered this fall by the **ASHRAE Learning Institute (ALI)**.

Participants can access these instructor-led courses from anywhere with an Internet connection, and earn continuing education units/professional development hours for each

course completed.

ALI courses provide professional development through in-depth information that is timely, practical and advanced beyond a fundamental level. Online courses are offered every spring and fall.

For pricing or to register, visit www.ashrae.org/onlinecourses

The courses offered this fall cover a variety of topics relevant to today's built environment, including:

Commissioning

- Commissioning for High-Performance Buildings, Oct. 19
- Commissioning Process in New & Existing Buildings, Part 1: Oct. 21, and Part 2: Oct. 28

Environmental Quality

- Humidity Control: Applications,

Control Levels, and Mold Avoidance, Sept. 16

Energy Efficiency

- Combined Heat & Power: Creating Efficiency through Design & Operations, Oct. 26
- Energy Management Best Practices, Oct. 12

HVAC Applications

- Designing High-Performance Healthcare HVAC Systems, Sept. 21
- Introduction to BACnet®, Sept. 14
- Laboratory Design: The Basics and Beyond, Nov. 2

Standards & Guidelines

- Fundamental Requirements of Standard 62.1-2013, Nov. 4
- Complying with Standard 90.1-2013: HVAC/Mechanical, Oct. 14

ASHRAE Region II Technology Award

Congratulations to **Frank Bann** for winning the award **ASHRAE Region II Technology Award**. The **ASHRAE Technology Awards** are to recognize outstanding achievement in the application of heating refrigerating and air-conditioning technology. Members that win at the chapter level are able to submit their projects at the regional level competition and winners of the regional competition are able to compete at the society level.

Frank won the Regional award for his innovation in design for **St. Patricks Home**.

The building is a **five (5) storey 20,000 m²**, long term care facility designed to MoH Standards with commercial kitchen, auditorium, administration and resident room areas with activity common areas, nursing, dining and support rooms. The building is projected to achieve

LEED Silver, if not Gold which will be one of the first long term care facilities to achieve **LEED 2010** rating and the systems will be **40%** more efficient than the **Model National Energy Code**.

Energy efficient features included:

- **92%** efficiency gas fire condensing boilers.
- **92%** efficiency gas fire domestic hot water boiler.
- Make-up air exhaust air energy recovery units with **92%** efficiency gas-fired condensing heating sections, variable speed drives and heat reclaim DX dehumidification systems.
- Commercial kitchen systems included variable speed exhaust/supply air intelligent control with exhaust heat recovery supply air pre-heat.
- Direct digital control system for building energy monitoring and trending which allows the operator to



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trend usage for gas, water, and electricity.

- Lighting control system for office, corridors and common areas which allows for reduced lighting levels in unoccupied mode.
- Electrical metering of incoming power which includes equipment, occupant, lighting and emergency power usage for trending purposes.

Please congratulate Frank on this achievement and please also consider submitting a project in this year's competition.

Advertising

Advertising career opportunities on the **ASHRAE Ottawa Valley** website makes good business sense. We offer a unique way to reach technical professionals and make your ad dollars work hard for you.

To discuss your needs, contact one of our chapter officers, via our "This Year" page. Increase the impact of your advertising through the **ASHRAE** Ottawa Valley website today.

Rates for career opportunities ads are as follows:
Chapter Member: \$50/month
Non-member: \$250/month

Placement of an Ad

We suggest that you complete and submit our advertisement form to speed up the processing of your request. If you have provided your e-mail address, a confirmation receipt e-mail will be sent to you for reference.

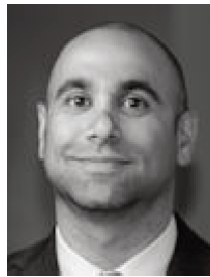
Please note that ads require prepayment made to the treasurer. Please register and pay online or for payment and other information contact **Adam Graham** at Adam.Graham@hts.com

The ads will appear on the website until the end date for publication provided in the submitted form. To extend the ad, please resubmit the form with the new publication dates and the required prepayment amounts.

Business Card Ads

You can support your chapter and promote your business by placing your business card in the Capital Communiqué. It will also appear on the chapter website.

The cost is \$250.00 for the year. Please contact **Rod Lancefield** at rod@htseng.com for more details.



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Four Engineers and A Broken Car

There are four engineers travelling in a car; a mechanical engineer, a chemical engineer, an electrical engineer and a computer engineer. The car breaks down. "Sounds to me as if the pistons have seized. We'll have to strip down the engine before we can get the car working again", says the mechanical engineer. "Well", says the chemical engineer, "it sounded to me as if the fuel might be contaminated. I think we should clear out the fuel system." "I thought it might be an grounding problem", says the electrical engineer, "or maybe a faulty plug lead." They all turn to the computer engineer who has said nothing and say: "Well, what do you think?" "Ummm - perhaps if we all get out of the car and get back in again?"

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